

SET EXAM SCHEME GENERAL PAPER ON TEACHING & RESEARCH APTITUDE

The examination scheme given below is applicable from 2019 onwards.

The University Grants Commission (U.G.C.), while prescribing the revised pay scale for teachers in colleges and in universities, in accordance with the Fourth Pay Commission, has prescribed that the person being appointed as Assistant Professor shall qualify for the new scales provided he/she clears, the Eligibility Test, to be conducted by the U.G.C., in addition to the minimum qualifications already prescribed. The U.G.C., accordingly conducts, the National Educational Tests (N.E.T.), for many subjects. The U.G.C. and the C.S.I.R.(Council for Scientific and Industrial Research) conduct combined tests for science subjects. In view of the fact that the number of candidates who are required to be qualified for being appointed as Assistant Professors, under the new pay scales, is fairly large, the U.G.C. has authorised the State Governments or the State Agencies on behalf of the State Governments to conduct the State Eligibility Test (SET) for Assistant Professor, provided, the SET is duly accredited by the U.G.C.

The SET is conducted by state agency nominated by state government as per guidelines of UGC. The test is Objective Mode and consist of two papers. All the two papers consist of only objective type questions and held on the day of Examination in two separate sessions without break as under:

Session	Paper	Number of Multiple Choice Questions	Marks	Duration
First	I	50 questions all of which are compulsory	50 x 2 = 100	1 hour

Paper-I shall be of general nature, intended to assess the teaching/research aptitude of the candidate. It is primarily designed to test reasoning ability, comprehension, divergent thinking and general awareness of the candidate. Paper I shall consist of fifty (50) objective type compulsory questions of two marks each.

There will be no negative marking

SYLLABUS

The main objective is to assess the teaching and research capabilities of the candidates. The test aims at assessing the teaching and research aptitude as well. Candidates are expected to possess and exhibit cognitive abilities, which include comprehension, analysis, evaluation, understanding the structure of arguments, deductive and inductive reasoning. The candidates are also expected to have a general awareness about teaching and learning processes in higher education system. Further, they should be aware of interaction between people, environment, natural resources and their impact on the quality of life. The details of syllabi are as follows:

Unit-I: Teaching Aptitude

- Teaching: Concept, Objectives, Levels of teaching (Memory, Understanding and Reflective), Characteristics and basic requirements.
- Learner's characteristics: Characteristics of adolescent and adult learners (Academic, Social, Emotional and Cognitive), Individual differences.
- Factors affecting teaching related to: Teacher, Learner, Support material, Instructional facilities, Learning environment and Institution.
- Methods of teaching in Institutions of higher learning: Teacher centred vs. Learner centred methods; Off-line vs. On-line methods (Swayam, Swayamprabha, MOOCs etc.).
- Teaching Support System: Traditional, Modern and ICT based.
- Evaluation Systems: Elements and Types of evaluation, Evaluation in Choice Based Credit System in Higher education, Computer based testing, Innovations in evaluation systems.

Unit-II: Research Aptitude

- Research: Meaning, Types, and Characteristics, Positivism and Post- positivistic approach to research.
- Methods of Research: Experimental, Descriptive, Historical, Qualitative and Quantitative methods.
- Steps of Research.
- Thesis and Article writing: Format and styles of referencing. Application of ICT in research.
- Research ethics.

Unit-III: Comprehension

- A passage of text be given. Questions be asked from the passage to be answered.

Unit-IV: Communication

- Communication: Meaning, types and characteristics of communication. Effective communication: Verbal and Non-verbal, Inter-Cultural and group communications, Classroom communication.
- Barriers to effective communication.
- Mass-Media and Society.

Unit-V: Mathematical Reasoning and Aptitude

- Types of reasoning.
- Number series, Letter series, Codes and Relationships.
- Mathematical Aptitude (Fraction, Time & Distance, Ratio, Proportion and Percentage, Profit and Loss, Interest and Discounting, Averages etc.).

Unit-VI Logical Reasoning

- Understanding the structure of arguments: argument forms, structure of categorical propositions, Mood and Figure, Formal and Informal fallacies, Uses of language, Connotations and denotations of terms, Classical square of opposition.
- Evaluating and distinguishing deductive and inductive reasoning. Analogies.
- Venn diagram: Simple and multiple use for establishing validity of arguments.
- Indian Logic: Means of knowledge.
- Pramanas: Pratyaksha (Perception), Anumana (Inference), Upamana (Comparison), Shabda (Verbal testimony), Arthapatti (Implication) and Anupalabddhi (Non-apprehension).
- Structure and kinds of Anumana (inference), Vyapti (invariable relation), Hetvabhasas (fallacies of inference).

Unit-VII: Data Interpretation

- Sources, acquisition and classification of Data.
- Quantitative and Qualitative Data.
- Graphical representation (Bar-chart, Histograms, Pie-chart, Table-chart and Line-chart) and mapping of Data.
- Data Interpretation.
- Data and Governance.

Unit-VIII: Information and Communication Technology (ICT)

- ICT: General abbreviations and terminology.
- Basics of Internet, Intranet, E-mail, Audio and Video-conferencing. Digital initiatives in higher education.
- ICT and Governance.

Unit-IX: People, Development and Environment

- Development and environment: Millennium development and Sustainable development goals.
- Human and environment interaction: Anthropogenic activities and their impacts on environment.
- Environmental issues: Local, Regional and Global; Air pollution, Water pollution, Soil pollution, Noise pollution, Waste (solid, liquid, biomedical, hazardous, electronic), Climate change and its Socio-Economic and Political dimensions.
- Impacts of pollutants on human health.
- Natural and energy resources: Solar, Wind, Soil, Hydro, Geothermal,
- Biomass, Nuclear and Forests.
- Natural hazards and disasters: Mitigation strategies.
- Environmental Protection Act (1986), National Action Plan on Climate Change, International agreements/efforts -Montreal Protocol, Rio Summit, Convention on Biodiversity, Kyoto Protocol, Paris Agreement, International Solar Alliance.

Unit-X: Higher Education System

- Institutions of higher learning and education in ancient India.
- Evolution of higher learning and research in Post Independence India.
- Oriental, Conventional and Non-conventional learning programmes in India.
- Professional, Technical and Skill Based education.
- Value education and environmental education.
- Policies, Governance, and Administration.

(i) Five questions each carrying 2 marks are to be set from each Module.

(ii) Whenever graphical/pictorial question(s) are set for sighted candidates, a passage followed by equal number of questions and weightage be set for visually impaired candidates.

(iii) Different State agency may have changes in syllabus.

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SECTION-1

SET - ANDHRA PRADESH & TELANGANA

2012

1. Teaching is best described as a

- (A) Occupation (B) Vocation
- (C) Profession (D) Career

2. The chief objective of teaching is

- (A) Transmission of existing knowledge
- (B) Stimulate curiosity of students to discover knowledge
- (C) Help children to do well in examinations
- (D) To facilitate research

3. A "Good" learner is one who

- (A) Listens attentively to teachers
- (B) Has a questioning frame of mind
- (C) Spends considerable time in library
- (D) Prepares well for examination

4. Identify any three factors which contribute to effective teaching

- (i) Art of communication
- (ii) Subject mastery
- (iii) Smart and handsome looks
- (iv) Rapport with students

- (A) (i), (ii) and (iii) (B) (i), (iii) and (iv)
- (C) (i), (ii) and (iv) (D) (ii), (iii) and (iv)

5. Programmed instruction is based on the principles of learning which is known as

- (A) Software learning
- (B) Motivation
- (C) Reinforcement
- (D) Systematic programming

6. Sentence completion tests are objective type of tests which measure

- (A) Recognition ability
- (B) Sentence knowledge
- (C) Association skill
- (D) Recall ability

7. Three of the following four attributes characterise research. Identify the one which is not an attribute of research

- (A) Research is purposive
- (B) Findings of research can be generalised for all contexts
- (C) Research is logical and objective
- (D) Research is based on accurate data

8. Match the following :

I	II
(A) Experimental	(p) Continuity of Method observations over time
(B) Descriptive	(q) Internal Method criticism of data
(C) Historical	(r) Stratified Method sample
(D) Longitudinal	(s) Equivalence of Method groups

- (A) (aq), (br), (cs) and (dp)
- (B) (br), (cq), (dp) and (as)
- (C) (cp), (dq), (as) and (br)
- (D) (dq), (cp), (bs) and (ar)

9. Reorganise the following in an appropriate sequence

- (i) Analysis and interpretation of data
- (ii) Preparation of Research Report
- (iii) Identification and selection of a problem
- (iv) Formulation of a research design
- (v) Collection of data

- (A) (iii), (iv), (i), (ii) and (v)
- (B) (iii), (iv), (i), (v) and (ii)
- (C) (iii), (v), (iv), (i) and (ii)
- (D) (iii), (iv), (v), (i) and (ii)

10. One of the following behaviour does not confirm to research ethics. Identify the behaviour

- (A) Copying passages from a book along with acknowledgement
- (B) Arriving at a generalisation which the researcher feels as truth even though data do not support it
- (C) Formulating hypothesis which is not confirmed by review of literature
- (D) Using statistical techniques in qualitative research

11. One of the following forums will be directly relevant for administrative actions

- (A) Seminar (B) Conference
(C) Workshop (D) Symposium

12. Quality of a good thesis is judged by three of the following four qualities

- (i) Coherence across objectives and findings
(ii) Consistency between data, analysis and interpretation
(iii) A comprehensive review of literature
(iv) Number of references cited in the thesis
(A) (i), (ii) and (iii) (B) (i), (ii) and (iv)
(C) (ii), (iii) and (iv) (D) (i), (iii) and (iv)

Read the following passage and answer question numbers from **13** to **18** :

Often, as I (Nehru) wandered from meeting to meeting, I spoke to my audience of this India of ours, of Hindustan and of Bharata, the old Sanskrit name derived from the mythical founder of the race. Sometimes as I reached a gathering, a great roar of welcome would greet me : Bharat Mata Ki Jai – ‘Victory to Mother India’. I would ask them unexpectedly what they meant by that cry, who was this Bharat Mata, Mother India, whose victory they wanted ? My question would amuse them and surprise them, and then, not knowing exactly what to answer they would look at each other and at me. I persisted in my questioning. At last a vigorous Jat, wedded to the soil from immemorial generations, would say that it was the dharti, the good earth of India, that they meant. What earth ? Their particular village patch, or all the patches in the district or province, or in the whole of India ? And so question and answer went on, till they would ask me impatiently to tell them all about it. I would endeavour to do so and explain that India was all this that they had thought, but it was much more. The mountains and the rivers of India, and the forests and the broad fields, which gave us food, were all dear to us, but what counted ultimately were the people of India, people like them and me, who were spread out all over this vast land. Bharat Mata, Mother India, was essentially these millions of people, and victory to her meant victory to these people. You are parts of this Bharat Mata, I told them, you are in a manner yourselves, Bharat Mata and as this idea slowly soaked into their brains, their eyes would light up as if they had made a great discovery.

13. How did people greet Nehru when he went to address them ? They greeted him with

- (A) Bharat Mata Ki Jai
(B) Victory to Mother India
(C) Jai Bharat Mata Ki
(D) Victory to Bharat Mata

14. Who was the person that gave the reply : Bharat Mata means “Dharti” ?

- (A) everybody (B) a Jat
(C) a stranger (D) Nehru himself

15. When the villagers were questioned on their concept of ‘Dharti’, one of the following answers was not included

- (A) Village patch (B) All patches of the district
(C) Mother Earth (D) Whole of India

16. Which part of Dharti gives us food ?

- (A) Mountains (B) Rivers
(C) Forests (D) Broad fields

17. Victory to ‘Bharat Mata’ means, victory to

- (A) People of the village
(B) All the people of India
(C) Millions of people
(D) Freedom fighters of India

18. What was the great discovery made by the villagers?

- (A) We are all Bharat Mata
(B) Mother Earth is Bharat Mata
(C) Mountains, rivers, forests and fields are Bharat Mata
(D) The good earth of India is Bharat Mata

19. Effective classroom communication of a teacher depends upon three of the following four qualities. They are

- (i) Content mastery
(ii) Clarity in language teaching
(iii) Consistency in presentation
(iv) Completing portions in time
(A) (i), (ii) and (iii) (B) (i), (ii) and (iv)
(C) (ii), (iii) and (iv) (D) (iii), (iv) and (i)

20. Three of the following four attributes of a teacher will become barriers in effective communication. Identify them

- (i) Pronunciation of the teacher
(ii) Caste status of a teacher
(iii) Facial expressions of the teacher
(iv) Choice of words

- (A) (i), (ii) and (iii) (B) (ii), (iii) and (iv)
 (C) (iii), (iv) and (i) (D) (i), (ii) and (iv)

21. Match the following behaviours of teachers with their communication-type

Behaviours	Type
(A) Teacher asks a	(p) Symbolic question
(B) Teacher writes a	(q) Digital diagram on the black board
(C) Teacher shows a	(r) Written CD to children
(D) Teacher beckons	(s) Oral a student to draw a graph on the black board

- (A) (aq), (br), (cs) and (dp)
 (B) (ar), (bs), (cp) and (dq)
 (C) (as), (br), (cq) and (dp)
 (D) (ap), (bq), (cr) and (ds)

22. The technique adopted to find out the level of acceptability of an individual by members of a group is

- (A) Personality testing (B) Projective techniques
 (C) Psychometry (D) Sociometry

23. Some of the following constraints are faced by first generation learners in college and university. Identify them.

- (i) Sub-optimal command over English Language
 (ii) Divergences in pronunciation of words
 (iii) Not being pro-active in conversations
 (iv) Not having proper height and weight

- (A) (i), (ii) and (iii) (B) (ii), (iii) and (iv)
 (C) (iii), (iv) and (i) (D) (iv), (i) and (ii)

24. Who among the following distinguished scholars is considered as the father of communication science ?

- (A) (B) F. Skinner (B) Jerome Bruner
 (C) Wilbur Schramm (D) Kurt Lewin

25. In a certain code CLOCK is KCOL(C) How is STEPS written in the same code ?

- (A) SPEST (B) SPSET
 (C) SPETS (D) SEPTS

26. In the sequence of numbers 5, 8, 13, X, 34, 55, 89, the value of X is

- (A) 20 (B) 21
 (C) 23 (D) 29

27. The letters in the first set have certain relationship. On the basis of this relationship, make the right choice for the second set BF : GK : : LP : ?

- (A) JK (B) QU
 (C) VW (D) RQ

28. Select the pair of words which is different from the others

- (A) Hard and soft (B) Hot and cold
 (C) Come and arrive (D) Right and wrong

29. In an examination 25% of the candidates failed in Mathematics and 12% in English. If 10% of the candidates failed in both the subjects and 292 passed in both the subjects, the total number of candidates appeared in the examination was

- (A) 300 (B) 400
 (C) 460 (D) 500

30. If $5472 = 9$, $6342 = 6$ and $7584 = 6$, what is 9236 ?

- (A) 2 (B) 3
 (C) 4 (D) 5

31. Five persons P, Q, R, S and T were travelling in a car. There were two ladies in the group. Of the three who knew car driving, one was a lady. There was one couple, of which only the wife could drive the car. P is brother of S. Q, wife of S, drove at the beginning. T drove at the end. Who was the other lady in the group ?

- (A) T (B) S
 (C) R (D) Data inadequate

32. All the students are boys. All boys are dancers. Which of the following inferences definitely follows from the above two statements ?

- (A) All dancers are boys
 (B) All boys are students
 (C) All dancers are students
 (D) All students are dancers

33. If a rectangle were called a circle, a circle a point, a point a triangle and a triangle a square, the shape of a wheel is

- (A) Rectangle (B) Circle
 (C) Point (D) Triangle

34. Manisha is eleventh from either end of a row of girls. How many girls are there in that row ?

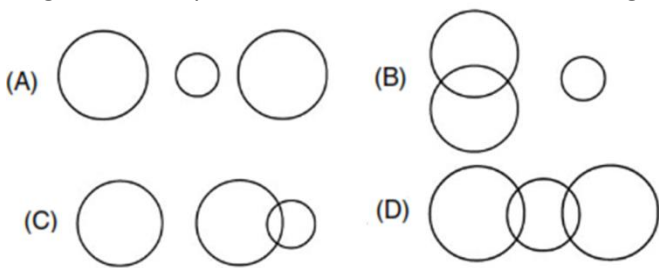
- (A) 19 (B) 20
 (C) 21 (D) 22

35. A student who completes any graduate studies course shall develop three of the following four essential attributes. They are

- (i) A questioning frame of mind
- (ii) Skills of survey techniques
- (iii) Good communication skills
- (iv) Sensitivity to social problems

- (A) (i), (ii) and (iii) (B) (ii), (iii) and (iv)
(C) (iii), (iv) and (i) (D) (i), (iv) and (ii)

36. There are 600 students in a college. 325 are boys and 275 are girls, each represented by a big circle, out of which 50 boys and 40 girls are from rural areas, represented by a small circle. Which of the following diagram best represents the distribution in the college ?



For visually handicapped candidates :

36. Data in tables of a research report show that 20 out of 60 students in the first year of (B)(A) class of a college are girls. On a particular day of visit it is observed that 12 students are absent of whom 08 are girls. Attendance behaviour is poorer among girls than others. This observation is a case of

- (A) Deductive logic (B) Transductive logic
(C) Inductive logic (D) Inferential logic

37. Which of the following sources of data can be classified as a primary source of data?

- (A) Data available in UGC reports
(B) Data collected by interviews of UGC experts
(C) Data available from socio-cultural tables of census of India, 2011
(D) Data on Educated unemployment available in Directorate of Employment and Training

38. External and internal criticism of data is a standard measure engaged for validation of data in

- (A) Historical Research
(B) Philosophical Research
(C) Descriptive Research
(D) Experimental Research

39. Identify the parameter which does not measure central tendency among the following parameters

- (A) Statistical mean (B) Arithmetic mean
(C) Mode (D) Average deviation

40. Which of the following is not a measure of dispersion ?

- (A) Quartile Deviation (B) Standard Deviation
(C) Kurtosis (D) Chi-square

41. The Universe for a research study comprises of 60000 students from rural and urban colleges, boys and girls, students of various social groups. Identify the best method of sampling.

- (A) Purposive sampling
(B) Stratified sampling
(C) Quota sampling
(D) Stratified random sampling

42. Identify the verbal test from the given standard tests used in educational research

- (A) Make a Picture Story Test (MAPS)
(B) Koh's Block Design Test
(C) Attitude scale
(D) Raven's Progressive Matrices

43. Match the following activities :

I	II
(A) Print media	(p) Kuchipudi Dance
(B) Electronic	(q) Telugumedia News Paper
(C) Folk media	(r) Tele conferencingby IGNOU
(D) Mass media	(s) Street plays

- (A) (aq) (br) (cs) (dp)
(B) (ar) (bp) (cq) (ds)
(C) (aq) (br) (dp) (cs)
(D) (aq) (br) (cp) (ds)

44. 2 GB RAM, 3MB RAM, are common terms used while checking on the efficiency of a computer. RAM means

- (A) Read All Materials
(B) Random Access Materials
(C) Random Access Memory
(D) Reliable Access Memory

45. You need to send an executive summary of 12 pages of a report of 120 pages on ICT in college education to 20 experts in the field by E-Mail. Identify the appropriate sequence from the following steps

- (i) E-Mail Id
- (ii) Attachment
- (iii) Send
- (iv) Compose

- (A) (i), (ii), (iii) and (iv) (B) (iv), (i), (ii) and (iii)
 (C) (iii), (iv), (i) and (ii) (D) (iv), (ii), (i) and (iii)

46. Information Technology is the generic name performing the following functions

- (A) Data storage
- (B) Data retrieval
- (C) Data communication
- (D) All of above

47. Information is stored in a computer in

- (A) Random Access Memory
- (B) CD-ROM
- (C) Read Only Memory
- (D) All of above

48. The best economic method of Data Processing is

- (A) Batch processing
- (B) Transaction processing
- (C) Distributed processing
- (D) Real time processing

49. Of the total energy consumption in India, domestic consumption is in the range of

- (A) 10 to 15 percent (B) 25 to 40 percent
- (C) 40 to 60 percent (D) 60 to 70 percent

50. Identify from the following the disease which is independent of pollution

- (A) Tuberculosis (B) Bronchitis
- (C) Peptic ulcer (D) Gastroenteritis

51. Identify the fossil fuels from the following contributors to global warming

- (i) Coal (ii) Oil
- (iii) Gas (iv) Bio-waste
- (A) (i), (ii) and (iii) (B) (ii), (iii) and (iv)
- (C) (iii), (iv) and (i) (D) (i), (ii) and (iv)

52. Match the following :

I	II
(A) Hydro-Electric	(p) Depleting source of source of Energy raw material
(B) Solar Energy	(q) Expensive per unit cost
(C) Thermal Energy	(r) Difficult to get raw materials
(D) Nuclear Energy	(s) Sustainable source

- (A) (aq) (br) (cs) (dp) (B) (ar) (bs) (cp) (dq)
 (C) (aq) (bs) (cp) (dr) (D) (ar) (bp) (cs) (dq)

53. Identify the chief sources of pollution from the following :

- (A) Autorickshaws, lorries and coal operated trains
- (B) Food, air and water
- (C) Uncovered sewage tracks, tank-beds of stagnant ponds and public wells
- (D) Hotels, hospitals and cremation Grounds

54. The slogan 'A tree for each child' was coined for

- (A) Social Forestry Programme
- (B) Clean Air Programme
- (C) Social Conservation Programme
- (D) Environmental Protection Programme

55. Identify any three common problems of distance education courses from the following :

- (i) Study materials are not easily available
- (ii) Study centres are not adequately equipped
- (iii) Academic guidance and counseling by expert teams is inadequate
- (iv) There is no regular personal contact with teachers

- (A) (i), (ii) and (iii) (B) (ii), (iii) and (iv)
 (C) (iii), (iv) and (i) (D) (i), (ii) and (iv)

56. Corporate Governance in Higher Education means

- (A) Governance of Colleges/Universities by Corporate Houses (industries)
- (B) Participation of university faculty in governance of Colleges/Universities
- (C) Inclusion of Corporate Houses as members on governing councils of Colleges/Universities
- (D) Financing of Universities/Colleges by Corporate Houses

57. The famous statement 'Tolerance, Humanism and Universal Reason' are the values symbolised by University Education was made by

- (A) Mahatma Gandhi (B) Dr. (D)(C) Kothari
- (C) Jawaharlal Nehru (D) Rabindranath Tagore

58. Identify the pure discipline of knowledge as against applied disciplines

- (A) Medical Education
- (B) Technical Education
- (C) Management Education
- (D) General Education

59. ICSSR means

- (A) Indian Centre for Science and Society Research
- (B) Indian Council of Social Sciences Research
- (C) Indian Conference of Social Sciences Research
- (D) Indian Council for Science, Society and Rehabilitation

60. NAAC means

- (A) National Assessment and Accreditation Council
- (B) National Assessment and Accreditation Centre
- (C) National Aviation and Aeronautics Centre
- (D) National Accreditation and Accountability Council

ANSWERS KEY -2012

Q.No	KEY	Q.No	KEY	Q.No	KEY
1	C	26	B	51	A
2	B	27	B	52	C
3	B	28	C	53	A
4	C	29	All	54	D
5	C	30	A	55	A
6	D	31	C	56	B
7	B	32	D	57	C
8	B	33	C	58	D
9	D	34	C	59	B
10	B	35	C	60	A
11	C	36	D		
12	A	37	B		
13	A	38	A		
14	B	39	D		
15	C	40	D		
16	D	41	D		
17	B	42	C		
18	A	43	A		
19	A	44	C		
20	C	45	B		
21	C	46	D		
22	D	47	All		
23	A	48	A		
24	C	49	A		
25	C	50	C&D		

2013

1. The most polluted places in India are

- (A) Gwalior and Bhopal
- (B) Vapi and Sukinda
- (C) Ranchi and Nasik
- (D) Surat and Rampur

2. Which is the correct order of the degree of weathering of the following rocks ?

- (A) Dunite > Basalt > Granite > Rhyolite
- (B) Basalt > Dunite > Granite > Rhyolite
- (C) Granite > Basalt > Dunite > Rhyolite
- (D) Rhyolite > Granite > Dunite > Basalt

3. In a weight reduction experiment, an overweight individual was given what the researcher called a new type of diet tablet that would help curb the desire to eat. In fact the tablet contained powdered milk, but ever since the individual started taking the tablet, he has reported that his desire to eat has decreased. This illustrates the

- (A) Curvilinear relationship
- (B) Effect of extraneous variables
- (C) A natural experiment
- (D) Placebo effect

4. Communication will be effective if it is

- (A) Delivered slowly and clearly
- (B) Delivered using appropriate media
- (C) Received as intended by the sender
- (D) Received immediately

5. Arrange the following steps of teaching in logical sequence :

1. Relating the present knowledge with previous knowledge
2. Evaluation
3. Re-teaching
4. Formulating objectives

5. Presentation of materials

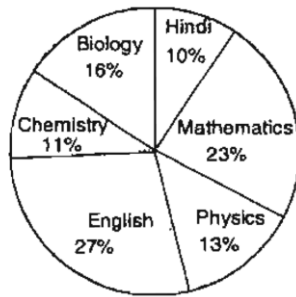
- (A) 1, 2, 3, 4, 5
- (B) 2, 1, 3, 4, 5
- (C) 5, 4, 3, 1, 2
- (D) 4, 1, 5, 2, 3

6. The research that aims at immediate application is

- (A) Action Research
- (B) Empirical Research
- (C) Conceptual Research
- (D) Fundamental Research

Directions (Q. 7–11) : Study the following pie-chart carefully to answer these questions. (Percentage-wise Distribution of teachers who teach six different subjects) Total number of Teachers = 1800

Percentage of Teachers



7. What is the difference between the total number of teachers who teach English and Physics together and the total number of teachers who teach Mathematics and Biology together ?

- (A) 16 (B) 26
(C) 28 (D) 18

8. What is the ratio of the number of teachers who teach Mathematics to the number of teachers who teach Hindi ?

- (A) 10: 7 (B) 17: 13
(C) 17: 26 (D) None of these

9. If the percentage of Mathematics teachers is increased by 50 per cent and the percentage of Hindi teachers decreased by 25 per cent then what will be the total number of Mathematics and Hindi teachers together ?

- (A) 946 (B) 843
(C) 1046 (D) None of these

10. If two-ninths of the teachers who teach Physics are female, then the number of male Physics teachers is approximately what percentage of the total number of teachers who teach Chemistry ?

- (A) 97 (B) 92
(C) 94 (D) 99

11. What is the total number of teachers teaching Chemistry, English and Biology ?

- (A) 1,172 (B) 872
(C) 972 (D) 990

12. An effective teaching means all of the following except

- (A) a teacher teaches with enthusiasm
(B) a teacher aims at diagnosing the mistakes of his students

- (C) a teacher puts emphasis more on teaching than on class control
(D) a teacher is interested in making the subject matter understand rather on completing the course

13. The most appropriate meaning of learning is

- (A) Inculcation of knowledge
(B) Modification of behaviour
(C) Personal adjustment
(D) Acquisition of skills

14. Which of the following is false? Consider the following statements.

- (A) Using of Information and Communication Technology (ICT) for learning promotes fast communication
(B) Information and Communication Technology (ICT) promotes cooperative learning for students
(C) Information and Communication Technology (ICT) promotes student privacy
(D) Plagiarism cannot be prevented

15. Value based education can be inculcated among the students through the following initiatives

- Making pupil's behaviour conformist by imposing the strict rules, regulations and punishment
 - By creating an external authority to monitor the behaviour of the students and teachers
 - Providing freedom and autonomy to the students and effective socialization and discussion
 - Encouraging the students to have proper role models for their personal and intellectual development
- (A) i, ii, iii are correct (B) i, ii, iii and iv are correct
(C) iii and iv are correct (D) i and iii are correct

16. My reaction to the statement: "A good teacher is essentially a good researcher" Is that this is

- (A) My firm belief
(B) Something I find difficult to agree
(C) Something which I accept only as an opinion
(D) Only a hypothesis

17. Sin Qua Non of good research is

- (A) A set of well documented hypothesis
(B) A good research supervisor
(C) Adequate library facilities
(D) A good research problem

18. India launched National Green Tribunal to make polluters pay damages, in the year :

- (A) 2008 (B) 2009
(C) 2010 (D) 2011

19. At what stage of an ecological succession, an ecosystem exhibits total photosynthesis equal to respiration ?

- (A) Pioneer (B) Climax
(C) Virgin (D) Mid-Seral

20. What will be the number in place of the question mark (?) in the following number series?

5 9 ? 29 54 103

- (A) 15 (B) 16
(C) 14 (D) 13

21. In this question, there are three statements followed by four conclusions. You have to take the three given statements to be true even if they seem to be at variance from commonly known facts and then decide which of the given conclusions logically follows from the three statements disregarding commonly known facts.

Statements : All tables are chairs. No chair is book. Some books are flowers.

Which of the following conclusions is definitely true ?

- (A) No flower is chair
(B) No flower is table
(C) Some chairs are not table
(D) No book is table

Read the following passage and answer the questions that follow (**Question No. 22 to 25**).

Talent is a force not a tool. Talent is neither good nor bad. Being multi-talented is a very mixed blessing. For some people, it is a curse. Ability or performance is the result of complex interaction between various parts of the mind/ body system. Some parts of the ability are due to "nurture". The most important of these environmental factors is knowledge in one form or another. Nature is the basis of talent. We all know, understand and operate on more levels than just the conscious. Talents or Aptitudes are unlearned abilities-gut-level and non-conscious ways of operating. Some people call them knacks. Aptitudes have major impact not just on performance, but on our individual and unique states of being. They are a big part of the reason "One man's meat is another man's poison". Most people know for more than they realise about knacks and talents. People usually know if they are mechanical, have a sequence of direction, pickup language enjoy puzzles or are good with their hands. Anyone who has managed or trained people has seen the clear impact of learned abilities. In any area, some folks take to it like ducks to water. Once trained they stay ahead of the crowd. Others sweat to keep up or fail miserably. Strong talents do not equal high performance. Having the right

knacks or talents provides a head start and on-going advantage. They are not useful without knowledge and motivation. Aptitudes have to be trained in order to be used well.

Peak performance occurs when one has the right combination of talents, knowledge, motivation, opportunity, courage, luck, tools and X factors.

22. A child always opening the "crossword puzzles page in a newspaper" is an analogy for

- (A) Some folks take to it like ducks to water
(B) One man's meat is another man's poison
(C) Both A and B
(D) None of the above

23. "One man's meat is another man's poison". In this statement we are referring to

- (A) The food habits of a person
(B) The likes and dislikes of a person
(C) The relative importance of people's talents
(D) None of the above

24. Aptitudes are 1. Talents 2. Knacks 3. Performance 4. Unlearned abilities

- (A) 1 2 4 (B) 2 3 4
(C) 1 2 3 n (D) 1 3 4

25. Peak performance occurs when one has the right combination of

1. Talents 2. Knowledge
3. Opportunity 4. Motivation

Of the above the aspects that are nurtured are

- (A) 1 and 2 (B) 2 and 3
(C) 2 and 4 (D) 1 and 3

26. Which of the following is the main objective of teaching ?

- (A) To develop thinking power of students
(B) To give information related to the syllabus
(C) Prepare the students for examination
(D) Help the students for getting jobs

27. The National Policy on Education, 1986 has emphasized on

- i. Decentralisation of Education
ii. Introduction of self-financing courses in Universities
iii. Vocational Education
iv. Increasing employability for University Graduates by providing knowledge and skills

- (A) i, ii, iii and iv are correct
 (B) i, ii, iii are correct
 (C) ii and iii are correct
 (D) iii and iv are correct

28. Central Educational Institutions (Reservation in Admissions) Act was passed in the year

- (A) 2004 (B) 2005
 (C) 2006 (D) 2007

29. Which of the following is also known as Top Slip ?

- (A) Simlipal National Park
 (B) Periyar Wildlife Sanctuary
 (C) Manjira Wildlife Sanctuary
 (D) Indira Gandhi Wildlife Sanctuary and National Park

30. The most essential step in the research process that determines every step that follows is to

- (A) Decide whether qualitative or quantitative methods are to be used
 (B) Review the literature in order to acquaint oneself with comprehensive knowledge
 (C) Have a clear idea about the methods of analysing data and drafting a plan to achieve it
 (D) Formulation of the problem with its objectives, hypotheses, variables and limitations

31. What is a statistical inference?

- (A) Reaching conclusions from a sample
 (B) Analysing statistical data
 (C) Applying statistical method
 (D) Developing statistical theories

32. Coal mine workers are prone to be victims of the following disease

- (A) Pneumoconiosis (B) Byssinosis
 (C) Asbestos (D) Silicosis

33. **Assertion (A)** : The challenge that the Indian state is facing today is how to achieve an equivalence between the state and the civil society within a democratic frame work.

Reason (R) : Criminalization of politics, political corruption and communal violence stand in the way of creating a value-based political culture.

- (A) Both A and R are true and R is the correct explanation of A
 (B) Both A and R are true, but R is not the correct explanation of A
 (C) A is true, but R is false
 (D) A is false, but R is true

34. Match the List-I with List-II and select the correct answer from the code given below

	List – I		List – II
1.	World Environment Day	i.	September 8
2.	World Population Day	ii.	December 10
3.	International Literacy Day	iii.	July 11
4.	International Human Rights Day	iv.	June 5

- (A) 1-iii, 2- i, 3- iv 4-ii (B) 1-ii, 2-iii, 3- iv 4-i
 (C) 1-iii, 2-iv, 3- ii, 4-I (D) 1-iv, 2-iii, 3-i, 4-ii

35. **Direction to Q. No. 35** : The following question is followed by two arguments I and II. You have to decide which argument is strong ? Should the opinion polls predicting outcome of elections before the elections be banned in India ?

Argument I : Yes, the outcome of opinion polls may influence the voting pattern.

Argument II : No, such polls are conducted all over the world.

- (A) Argument I is strong
 (B) Argument II is strong
 (C) Both arguments are strong
 (D) Neither I nor II is strong

36. Put in descending order as per content of Carbon.

1. Peat 2. Lignite
 3. Bituminous Coal 4. Anthracite
 (A) 4, 2, 3, 1 (B) 1, 2, 3, 4
 (C) 3, 4, 2, 1 (D) 4, 3, 2, 1

37. Which one of the following is true about the Indian Polity ?

- (A) It is a true Federation
 (B) It is a Confederation
 (C) It is Quasi – federal
 (D) It is a Unitary State

38. In a certain code DREAMING is written as BFSEFMHL. How is SELECTED written in that code ?

- (A) FMFTCDSB (B) FMFTEFUD
 (C) EKDRCDSEB (D) EKDFEFUD

39. In a certain code BRING is written as '53@©2' and GUIDE is written as '2\$@76'. How is GINGER written in that code ?

- (A) 2 © @253 (B) 2@ © 263
 (C) 2@ © 753 (D) 2@ © \$53

40. A solar cell is basically a

- (A) p-type semiconductor
- (B) n-type semiconductor
- (C) p-n-diode
- (D) p.n.p transistor

41. Three of the following four are alike in a certain way and so form a group. Which is the one that does not belong to that group ?

- (A) Tabala (B) Flute
- (C) Music (D) Piano

42. Which of the following will come in the place of question mark ? HIZ JYK XLM NOW ?

- (A) PQV (B) QRV
- (C) QWR (D) PVQ

43. **Assertion (A)** : CFCs destroy ozone molecules in stratosphere

Reason (R) : CFCs have very high global warming potential

- (A) Both (A) and (R) are true
- (B) Both (A) and (R) true but (R) is not the correct explanation of (A)
- (C) (A) is true (R) is false
- (D) (A) is false (R) is true

44. The main purpose of the first degree in our Universities should be to

- (A) Bring students to frontiers of knowledge and from there should be research
- (B) Equip students with necessary competencies for different work experiences
- (C) Prepare students for social service and bring them to the threshold of knowledge
- (D) Bring to the frontiers of research from there necessary equipment of knowledge

45. Which of the following is not a characteristic of Scientific method ?

- (A) Objectivity (B) Verification
- (C) Speculation (D) Predictability

46. The minimum thickness to be used in biodegradable carry bags should be

- (A) 5 microns (B) 10 microns
- (C) 15 microns (D) 20 microns

47. Which of the following is not an ethical guideline for conducting research with humans ?

- (A) Getting informed consent of the participant
- (B) Telling participants that they must continue until study has been completed
- (C) Keeping participant's identity anonymous
- (D) Telling participants that they are free to withdraw at any time

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- (C) Keeping participant's identity anonymous
- (D) Telling participants that they are free to withdraw at any time

48. In a row of forty-five girls facing South, D is sixteenth from the right end. There are 8 girls between D and (B) What is B's position from the left end of the row ?

- (A) Twenty-first (B) Ninth
- (C) Twentieth (D) Data Inadequate

49. Internet and World Wide Web are

- (A) One and the same
- (B) Internet is part of World Wide Web
- (C) World Wide Web is part of the Internet
- (D) None of these

50. The professionalism of a teacher can be tested in terms

- (A) Love towards the profession
- (B) Competency to teach
- (C) Observance of professional ethics
- (D) In-depth knowledge of subject

51. **ENIAC** is acronym for

- (A) Electronic Numeric Integrator and Calculator
- (B) Electronic Number Interchange Address Code
- (C) Electronic Numeric Intercom and Calculator
- (D) Electrical Numerical Integrator and Calculator

52. M is brother of K. T is sister of M. J is brother of T. H is father of J. Then how is K related to H?

- (A) Niece
- (B) Son or Daughter
- (C) Brother
- (D) Sister

53. Study the following information to answer the given question: P, Q, R, S, T, V and W are sitting in a straight line facing north but not necessarily in the same order. R sits third to the left of W. Neither R nor W sits at extreme ends of the line. Only one person sits between R and T. S is not an immediate neighbour of either R or W. Two people sit between T and P. Q is an immediate neighbour of S. Who amongst the following sits exactly between R and T?

- (A) P
- (B) Q
- (C) V
- (D) S

54. The major part of air pollution load lies in

- (A) Troposphere
- (B) Stratosphere
- (C) Thermosphere
- (D) Ionosphere

55. A good piece of research is the outcome of

- (A) Collective effort
- (B) A touch of genius
- (C) A reputed research institute
- (D) A penetrating and analytical mind

56. Broad Band has a speed more than

- (A) 256 KB/sec
- (B) 512 KB/sec
- (C) 1024 KB/sec
- (D) None of these

57. You got a mail telling you that you won one million dollars in a lottery.

- (A) It is time to celebrate and respond to the mail.
- (B) Forward the mail to your friend
- (C) Suspect it could be tricking you and report it as Spam
- (D) No action

58. What is the relative position of moon, earth, and the sun during a lunar-eclipse?

- (A) The sun and moon are in conjunction
- (B) The sun and moon are opposite
- (C) The three make an equilateral triangle
- (D) The line joining the earth and sun, and earth and moon make right angle

59. Which one of the following is the usual sequence of scientific enquiry?

- (A) Observation – Verification – Hypothesizing – Theorizing
- (B) Experimentation – Observation – Verification – Hypothesizing
- (C) Observation – Hypothesizing – Experimentation – Theorizing
- (D) Theorizing – Observation – Experimentation – Hypothesizing

60. The Education Department invites projects or action research on instructional problems related to your subject of specialisation. How will you react to this?

- (A) Prepare a project in case I have experienced a genuine complex problem
- (B) Prepare a project on any problem that might be faced by a large number of teachers
- (C) Prepare a project with the intention of getting recognition
- (D) Prepare a project in case an award is declared

ANSWER KEY - 2013

Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	B,D	16	C	31	A	46	C, D
2	C	17	D	32	A, D	47	B
3	D	18	C	33	A	48	D
4	C	19	B	34	D	49	C
5	D	20	B	35	A	50	C
6	A	21	D	36	D	51	A
7	D	22	A	37	C	52	B
8	D	23	C	38	A	53	C
9	D	24	A	39	B	54	A
10	B	25	C	40	C	55	D
11	C	26	A	41	C	56	A
12	B	27	D	42	D	57	C
13	B	28	D	43	A	58	B
14	D	29	D	44	A	59	C
15	B	30	B	45	C	60	B

2014

1. In a row of thirty three girls facing north, in F is thirteen from the right end. There are nine girls between D and F. what is D's position from the left end of the row ?

- (A) Twenty third (B) Third
(C) Eleventh (D) Data Inadequate

2. In the question, there are three statement followed by four conclusion. You have to take the three given statement to be true even if they seem to be at variance from commonly known facts and then decided which of the given conclusion logically follows from the three statements disregarding commonly known facts.

Statements : Some bottles are bulbs
Some bulbs are button
Some bats are bottles

Which of the following conclusion is defiantly falls ?

- (A) Some bottles are bats
(B) No bulb in button
(C) Some buttons are bulb
(D) No of the above

3. In a certain code SLPWK is written as 531@% and MEAK is written as 26©%. How is LPSE written in that code ?

- (A) 3@ 16 (B) 3516
(C) 3156 (D) 3©16

4. If 'Green' means 'Yellow', 'Yellow' means 'White', 'White' means 'Red' means 'Violet', 'Violet' means 'Black'; then which of the following will be the colour of human blood ?

- (A) Red (B) Black
(C) Green (D) White

5. How do you treat a student who is irregular to the class ?

- (A) Try to find the genuinity and help the student to be regular
(B) Enquire with the student the reason of irregularity and make the student be conscious
(C) Teacher uses sarcastic language and humiliates the student
(D) Report matter to the principal and also the parents

6. Which of the following parameters are considered essential for the measurement of Quality Education in India ?

- (A) Quality infrastructure, Curriculum and Capital investment measures
(B) Quality assurance, Quality performance and Quality outcome measures
(C) Capital investment, Research output and Value-based education measures
(D) Vision, Mission and capital investment measures

7. In a certain code CURTAIN is written as XAIGEOM. How is TABLE written in the code?

- (A) ELBAT (B) GFYIO
(C) GRYOI (D) GEYIO

8. Which of the following will come in the place of the question mark ?

- | | | | |
|---------|---------|-----|---|
| FHJ | KNQ | RVJ | ? |
| (A) ABC | (B) ACD | | |
| (C) BEG | (D) AFK | | |

9. The logic of qualitative data analysis is describe as

- (A) Objective (B) Deduction
(C) Inductive (D) Subjective

10. The purpose of qualitative research is to

- (A) Promote a deep, holistic understanding phenomenon of interest
(B) Describe the participant's attitude on a five point scale ranging from strong negative (1) to strongly positive (5)
(C) Establish casual relationship in a natural context
(D) Interview and observed participants to confirm theoretical propositions

11. Which of the following methods involves a systematic and comprehensive study of a particular community, organization groups etc. with view to the analysis of a social problem and the presentation of the recommendation for its solution ?

- (A) Experimental methods
(B) Survey method
(C) Historical method
(D) Quantitative method

12. A 21st century teachers should have an edge over conventional teachers

- (A) Teacher should be familiar with ICT, Life skills, International themes
(B) Effective communication, ICT
(C) Authority on subject, source of learning
(D) Ability to engage children to use ICT skills, Life skills and International theme to learn on their own

13. A teacher should have

- (A) Authority on a subject, effective communication
(B) Presence of mind
(C) Conviction, commitment, involvement
(D) Competencies and skill of teaching

14. A clean anaerobic fuel of organic origin is

- (A) Agriculture (B) Industries
(C) Transportation (D) River valley projects

15. Match the pairs :

	List A		List B
1.	Kinesis	(A)	Science of the movement of our eyes
2.	Occulesics	(B)	Science of space
3.	Paralinguistic	(C)	Concept of Time
4.	Proxemics	(D)	Language of Touch
5.	Artifacts	e.	Pitch, tone, modulation
6.	Chronemics	f.	Postures, gesture, head node et(C)
7.	Tactilics	g.	Appearance, clothing, personal object

Objects :

- (A) 1 – d 2 – a 3 – c
4 – e 5 – b 6 – g
7 – f
- (B) 1 – f 2 – a 3 – e
4 – b 5 - g 6 – c
7 – d
- (C) 1 – b 2 – a 3 – c
4 – d 5 - e 6 – f
7 – g
- (D) 1 – c 2 – a 3 – b
4 – d 5 - e 6 – g
7 – f

17. Your description of who you are as a person is your

- (A) Self awareness
(B) Self esteem
(C) Self concept
(D) Self disclose

18. A systematic inquiry conducted by teacher, researcher, principle, school counsellor, or other stakeholder in the teaching / learning environment is known as

- (A) Ethnography
(B) Narrative research
(C) Mixed methods of Research
(D) Action research

19. In the conduct of research the process in which generalization are inferred from specific facts or conclusion are derived from individual observation is called as

- (A) Deductive strategy (B) Deductive reasoning
(C) Inductive strategy (D) Explanatory strategy

20. Match the following methods teaching with its effective use

	List A		List B
(A)	Inspire, ignites, stimulate, thinking Reasoning in Students	1.	Discussion
(B)	sharing ideas, mutual help stimulate thinking together	2.	Lecture
(C)	Understand other point of view, clarification, Comprehension, new ideas are generate(D)	3.	Collaboration
(D)	Self-learning, confidence building, active participation in discussion.	4.	Seminar
		5.	Problem solving

Codes :

	a	b	c	d
(A)	1	2	5	4
(B)	2	3	4	5
(C)	1	4	2	3
(D)	2	3	1	4

21. Which of the following committee constituted by the University Grants Commission (UGC) has recommended the PPP model in Higher education ?

- (A) Mukesh Ambani and Kumaramangalam Birla Committee
(B) Dr. Swaminathan Committee
(C) Prof. Yashpal committee
(D) K.(B) Pawar Committee

22. By an extranet we mean

- (A) An extra fast computer network
- (B) The intranets of two co-operating organization interconnected via a secure leased line
- (C) An extra network use by an organization for higher reliability
- (D) An extra connection to internet provided to co-operation organization

23. Which of the following are the functions of the National Commission of Higher Education and Research (NCHER) ?

- i. To develop curriculum in complementarity with new fields of knowledge and to provide conducive environment for flexible academic framework for self development, entrepreneurship and skill acquisition.
 - ii. To give recognition to institute of Technical Education and Research, disbursement of funds, monitoring higher educational institute and promotion of standard of teaching
 - iii. To regulate the entry and operation of foreign educational institutions and prescribe the mechanism through which transparency, efficiency and accountability can be ensured in the governing system of universities
 - iv. To facilitated mobility among students from vocational education courses to general higher education
- (A) i, ii, iii are correct (B) ii, iii, iv are correct
(C) i, iii, iv are correct (D) i, ii, iv are correct

24. The degree to which the finding of the study can be generalized to a wider population known as

- (A) Analysis validity (B) Construct validity
- (C) Internal validity (D) External validity

25. Which of the following are implementable strategies to meet the needs of heterogeneous students in a class ?

- 1. Varied types and levels of learning experience
 - 2. Identify needs of each student and plan accordingly
 - 3. Introduce varies participant methods like, collaboration, project discussion, et(C)
 - 4. Creating stimulation and enriching environment to develop interest in learning.
- (A) 3 and 4 are correct (B) 2 and 4 are correct
(C) 1 and 3 are correct (D) All the four are correct

26. Match the following

	List 1		List 2
(A)	fundamental research	1.	To find solutions the problem faced by practitioners
(B)	Applied research	2.	To established facts experimentally
(C)	Action research	3.	To identify right practices on the basis of established theory
(D)	Case study	4.	To established concepts, principles and theories
(E)	Experimental research	5.	To study individuals n details

Codes :

	a	b	c	d	e
(A)	4	3	1	5	2
(B)	1	3	4	2	5
(C)	2	3	4	1	5
(D)	5	2	4	3	1

27. The ability to communicate effectively is :

- 1. A learned behaviour
- 2. An acquired behaviour
- 3. A casual behaviour

Codes :

- (A) 3 is correct
- (B) 1 is correct
- (C) 2 and 3 are correct
- (D) None of the above

28. Teachers with poor interpersonal skills have

- (A) A blind style of functioning
- (B) A close style of functioning
- (C) An open style of functioning
- (D) A hidden style of functioning

29. Listing is a

- (A) Physiological process that occur without effort
- (B) Natural habits
- (C) Complex process that involves that
- (D) Reflex

30. People who engage frank and open expression of their feeling are considered

- (A) Aggressive (B) Rude
- (C) Assertive (D) Inconsiderate

31. Troposphere and Thermosphere belong to

- (A) Atmosphere (B) Lithosphere
(C) Hydrosphere (D) Biosphere

32. HTML tags define

- (A) The data types of elements of document
(B) Presentation of specified elements of a document
(C) The content of the document
(D) The structure of the document

Read the following passage and answer the questions from **Q.No. 33 to 37** given below:

To many people, Switzerland is the country of the Alps, though not all of it is mountainous. Northern Switzerland, like neighbouring regions of Eastern France and south-west Germany, is a land of hills and wood be also of cities and industries. Basel is world famous for pharmaceutical and Zurich and its suburbs for electrical engineering and machinery. It is non-alpine Switzerland that produce the cheese, the chocolates, the clocks and the watches for which the country is renowned. The alps occupy the southern half of the country. They from two main east-west cahins, divided by the straight line of the upper valley of the Rhone and Rhine. The northern chain wholly in Switzerland contain Eger and Jungfrau peak The Alps also influence Swiss life though their impact on climate. They divided the Mediterranean world from the central European. There are many regional variations in climate. But generally normal mountain air is clear and clean – a factor that has resulted in Switzerland attracting invalids from all over the world to is hospital and clinics.

33. Switzerland's climate which attract invalids from all over the world can be described as

- (A) salacious (B) salubrious
(C) felicitous (D) boisterous

34. Replace the word "impact" of the passage without changing the meaning of the sentence using one of the following :

- (A) change (B) alternation
(C) evolution (D) influence

35. According to the passage which region has a major share of mountains to the exclusion of other land forms ?

- (A) Southern Switzerland
(B) Eastern France
(C) South – West Germany
(D) Northern Switzerland

36. Cheese, chocolates, clock et(C) are produce

- (A) All over Switzerland
(B) only in two cities of Switzerland
(C) in the mountainous region of Switzerland
(D) in the non-mountainous region of Switzerland

37. In the first sentence of the word "it" in the phrase "not of all it is mountainous" refers to

- (A) Mountains (B) neighbouring countries
(C) Switzerland (D) Alps

38. Words are

- (A) Connotative (B) Symbols
(C) Unnecessary (D) Denotative

39. The presence of excess arsenic in ground water causes

- (A) Black food disease
(B) Knock knee syndrome
(C) Methemoglobinemia
(D) Blue baby syndrome

40. Two skill associated with being a good listener are the ability

- (A) To pay attention and provide feedback
(B) To pay attention to and to provide a strong point of view in response to a given message
(C) To pay attention and to mask your disinterest when necessary
(D) To listen to more than one massage at a time and provide constructive criticism

Study the following table and solve the **Questions No. 41 & 42** base on it.

The following table show the marks obtained by seven students in a different subjects :

Students subjects	A	B	C	D	E	F	G
Reading Comprehensive (out of 100)	65	58	73	75	68	56	51
Data Interpretation (out of 100)	59	63	69	52	71	49	72
Maths (out of 150)	132	105	141	128	119	120	135
Reasoning (out of 200)	138	126	162	144	150	118	132
English (out of 150)	32	27	33	41	29	35	37
Corporate awareness (out of 150)	105	98	112	106	119	107	96
Total	531	477	590	546	556	485	523

41. Approximately what is the maximum difference between the percentage of total marks obtained by any two students.

- (A) 13 (B) 10
(C) 12 (D) 20

42. What is the difference between the percentage marks obtain by student E and data interpretation and Maths together and the percentage of marks obtained by student A in Reasoning and English together ?

- (A) 16.3 % (B) 28.9 %
(C) 12 % (D) 27.4 %

43. Which section of a research reports states the stage for the report and indicate where in the report each component, table and figures can be found ?

- (A) Preliminary pages (B) table of contents
(C) main body (D) Appendices

44. Indicate which of the four style refers to the following statement : " Do not lecture me please ! I know exactly what i am doing".

- (A) Open style (B) Close style
(C) Blind style (D) Hidden style

45. Movement of the face that convey emotional meaning are called

- (A) Displace (B) Poker face
(C) Emblems (D) Facial contortions

46. Which of the following is not a greenhouse gas ?

- (A) H_2S (B) CO_2
(C) CH_4 (D) CFCs

47. Which of the following considered as the correct sequence in the process of communication ?

- (A) Acting → Message → Communication → Channel → Encoding → Receiver → Decoding → Feedback
(B) Sender → Message → Decoding → Communication channel → Receiver → Encoding → Acting → Feedback
(C) Message → Sender → Encoding → Communication channel → Receiver → Decoding → Acting → Feedback
(D) Message → Sender → Communication channel → Decoding → Receiver → Encoding → Acting → Feedback

48. Which of the following are considered as the Semantic barriers in formal communication ?

- (A) Organization rules and regulations and policies of the organization
(B) Attitude of the superiors towards subordinates and Prejudice

(C) Distrust of superiors towards subordinate and Inattention

(D) Problem of language and absence of clarity and precision in the subject

49. Which of the following statement are correct ?

- i. Communication is an Art and Science
ii. Communication is a Social process
iii. Communication is a Human Process
iv. Communication is a Biological process

- (A) i, ii, iv are correct (B) ii, iii, iv are correct
(C) i, iii, iv are correct (D) i, ii, iii are correct

50. Which of the following are the most important factor in successful communication ?

- i. Empathy
ii. Self-awareness
iii. Memory
iv. Positive thinking

- (A) i and ii are correct, while iii and iv are incorrect
(B) i, ii, iii are correct, while fourth is incorrect
(C) i, ii, iii, iv are correct
(D) iii, and iv are correct, while i and ii are incorrect

51. Undue stress regarding oral and/ or written communication is known as

- (A) Reticent apprehensive
(B) Communication apprehensive
(C) communication block
(D) Ambivalent reticence

52. IP addresses are converted to

- (A) A hierarchy of domain name
(B) Alpha numeric string
(C) A binary string
(D) A hexadecimal string

53. Drawing information or content from the work of another without acknowledging the source by citing a reference is considered to be plagiarism in all of the cases except

- (A) Use the exact word of the author
(B) Reproducing a chart contained in another authors work
(C) When the information describes common knowledge
(D) When the information comes from an email or phone call

54. In a certain code language 'tree is very beautiful' is written as 'ka na da ta' and 'this is strong tree' is written as 'na pa sa ka'. How is 'beautiful' written in that code language?

- (A) da (B) ta
(C) sa (D) Data inadequate

55. The variable weight expressed in kilograms is measured in

1. Nominal scale
2. Ordinal scale
3. Interval scale
4. Ratio scale

Codes :

- (A) 3 is correct (B) 4 is correct
(C) 2 and 4 correct (D) 3 and 4 correct

56. _____ is standardized method for transferring data between different computer systems or computer networks.

- (A) Mobile data interface
(B) Electronic Data Interchange
(C) File transfer Protocol
(D) Electronic Device interface

57. Which one of the following is a term for an audio or video recording posted on a web site that can be downloaded and played later ?

- (A) Podcast (B) Blog
(C) VoIP (D) RSS feed

58. Which of the following are the advantages with the Communication Networking known as "Integrated Service Digital Network (ISDN)" ?

- I. Fast digital connectivity and the capability of providing for the integration of voice, video and other service
- II. It accelerated the flow of information
- III. It provide an opportunity to share hardware and software by several users
- IV. It provides the facilities of call waiting, diversion of calls and conference calls
- V. It provide the facility for controlling data base access and other security requirement

- (A) i, ii, v are correct
(B) i, ii, iv are correct
(C) ii, iii, iv are correct
(D) iii, iv, v are correct

59. You have been invited to participate in a research study and have been given an information sheet about the study. which of the following statements best includes the information you expected to be included in the information sheet ?

- (A) A brief summary of literature, focus of research and how research will affect you
(B) What the research is about, benefits and risks of the research and how your privacy will respected
(C) A brief summary of the literature review, how finding will be disseminate and a place to sign consent
(D) What the research is about, benefits of the research and how findings will be disseminated

60. A literature review is characterized by all of the following except :

- (A) Summaries and report each article
(B) Use important topics as the organizational structure of the review
(C) Analyze all articles for similarities and differences related major topics
(D) Discuss implications relative to the research problem

ANSWERS : 2014 PAPER I

QUE	ANS	QUE	ANS	QUE	ANS
1	D	21	D	41	A
2	D	22	B	42	D
3	C	23	D	43	A
4	*	24	D	44	C
5	A	25	D	45	D
6	B	26	A	46	A
7	D	27	B	47	C
8	D	28	B	48	D
9	C	29	C	49	C
10	A	30	C	50	C
11	B	31	A	51	B
12	D	32	A	52	A
13	D	33	B	53	C
14	A	34	D	54	D
15	A	35	A	55	B
16	B	36	D	56	B
17	D	37	C	57	A
18	D	38	B	58	B
19	C	39	A	59	D
20	D	40	A	60	A

2017

1. Among the given four companies which company has the highest number of female employees ?

- (A) T (B) R
(C) P (D) S

2. The male employees of Marketing Dept. of company 'Q' are what percent of total employees of company 'R' ?

- (A) 66.66% (B) 87.50%
(C) 12.50% (D) 75.00%

3. What is the total number of male employees of marketing departments of companies 'P', 'Q' and 'R' ?

- (A) 1690 (B) 350
(C) 625 (D) 495

4. What is the difference between the total male employees of company 'T' and the total employees of Marketing department of company 'R' ?

- (A) 12 (B) 50
(C) 15 (D) 25

5. What is the ratio between female employees of Marketing Dept. of company 'S' and male employees of HR Dept. of Company 'R' ?

- (A) 1:2 (B) 400:520
(C) 2:1 (D) 260: 200

6. The most important component of teaching learning process is :

- (A) Curriculum
(B) Classroom environment
(C) Learner
(D) Teaching technology

7. Logic of induction is very close to :

- (A) the logic of sampling
(B) the logic of observation
(C) the logic of the controlled variable
(D) the logic of independent variable

8. Which method of teaching encourages maximum participation of students ?

- (A) Lecture method
(B) Discussion method
(C) Demonstration method
(D) Source method

9. Why should you choose teaching as profession?

- (A) Passion for teaching
(B) Service to humanity
(C) To make easy money
(D) Mastery over subject of teaching

10. A teacher can be successful if he/she :

- (A) helps students in becoming better citizens
(B) imparts subject matter to students
(C) prepares students to pass the examination
(D) presents the subject matter in a well organized manner

11. Hypothesis cannot be stated in :

- (A) null terms (B) affirmative terms
(C) general terms (D) declarative terms

12. If a student mischiefs in the class the teacher has to:

- (A) report to the headmaster
(B) report to the parents
(C) punish the student appropriately
(D) undertake a case study on the student

13. The essential pre-requisite characteristics for effective teaching are given. Arrange these in order of priority

- (a) Content competence
(b) Passion for teaching
(c) Love to work with children
(d) Expertise in methods of teaching
(e) Communication skills

Codes :

- | | | | | | |
|-----|-----|-----|-----|-----|-----|
| (A) | (b) | (c) | (a) | (d) | (e) |
| (B) | (a) | (b) | (c) | (d) | (e) |
| (C) | (e) | (a) | (c) | (b) | (d) |
| (D) | (d) | (b) | (e) | (a) | (c) |

14. Which of the following is not the characteristic of a researcher ?

- (A) He is a specialist rather than a generalist
(B) He is industrious and persistent on the trail of discovery
(C) He is not inspirational to his chosen field but accepts the reality
(D) He must be an expert in statistics

15. Nine year olds are taller than seven year olds this is an example of conclusion from:

- (A) Vertical study
- (B) Cross-sectional study
- (C) Time series study
- (D) Experimental study

16. Which of the following is a measure of consistency?

- (A) Validity
- (B) Objectivity
- (C) Reliability
- (D) Credibility

17. An example for scientific knowledge is :

- (A) Authority of a Prophet
- (B) Social Customs
- (C) Religious Scriptures
- (D) Laboratory and field experiments

18. Sita and Lavanya are older to Swapna; Suvarna is younger than both Harita and Swapna. Swapna is elder than Harita.

Identify the correct statement/ statements which are true beyond any doubt.

- (a) Lavanya is the eldest
- (b) There are two people who are older to Swapna
- (c) Harita is not the youngest

Codes :

- (A) Only (a) and (b) are true
- (B) (a), (b), (c) are true
- (C) Only (b) and (c) are true
- (D) (a), (b), (c) are not true

19. Directions :

In making decision about important question, it is desirable to be able to distinguish between "Strong" arguments and "Weak arguments". "Strong" arguments must be both important and directly related to the question. "Weak" arguments may not be directly related to the question and may be of minor importance or may be related to the trivial aspects of the question. Question given below is followed by two arguments numbered (a), (b). You have to decide which of the argument(s) is/ are "Strong" and indicate your answer accordingly.

Statement :

Should the Government close Telugu medium schools ?

Arguments :

- (a) Yes, this will help the Government to save money on salaries to teachers.
- (b) No, why should the Government close Telugu medium schools ?

Codes :

- (A) Only (a) is strong
- (B) Only (b) is strong
- (C) Both (a) and (b) are strong
- (D) Both (a) and (b) are weak

20. If the expressions 'R>U=N>S' and 'A>N>D' are true, which of the following conclusion is definitely true ?

- (A) A < R
- (B) U > A
- (C) D < S
- (D) R > D

21. According to Confucius the best communication :

- (A) is always silent
- (B) uses fewer words
- (C) uses impressive words
- (D) uses strong words

22. A's mother is the mother-in-law of the father of 'B'. 'B' is the brother of 'C' while 'A' is the father of 'M'. How is 'A' related to 'C' ?

- (A) Brother
- (B) Uncle
- (C) Cousin
- (D) Grandfather

23. A good speaker is always a :

- (A) Good Writer
- (B) Smart Fellow
- (C) Good Listener
- (D) Jovial Fellow

24. What should come in the place of question mark ?

$$963 + 560 \div 35 - 35 \times 6 + 10 = 2$$

- (A) 753
- (B) 699
- (C) 785
- (D) 779

25. **Direction :** To answer this question, carefully study the following arrangements of letters, digits and symbols.

M 7 Z 8 L P @ ? 6 N B T Y 3 2 = E \$ 49 © GH5

How many such letters are there in the above series which are immediately followed by a digit?

- (A) Three
- (B) Four
- (C) One
- (D) Two

26. Study the following number series. What should come in the place of question mark ?

10, 19, 53, 203, 999, ?

- (A) 5969
- (B) 5996
- (C) 5699
- (D) 5669

27. _____ is a quality that will allow one to understand the mental and psychological state of the person we are communicating with

- (A) Antipathy
- (B) Sympathy
- (C) Empathy
- (D) Apathy

28. In a certain code language, 'avoid going out' is coded as '319'. Similarly 'going for party' is coded as '612' and 'out for party' is coded as '362'. What will be the code for 'party' in the given code language ?

- (A) 3 (B) 1
(C) Either '3' or 'T' (D) Either '2' or '6'

29. Etiquettes are inherent aspects of :

- (A) Communication (B) Spoken English
(C) Posh manners (D) Classroom dynamics

30. Statements :

Some Apples are Bananas
Some cats are Bananas
No cat is a Doll

Which of the following inferences definitely does not follow from the above three statements ?

- (A) Some Bananas are Apples
(B) Some Bananas are always not Dolls
(C) Some cats being Apple is a possibility
(D) Some Dolls may be Cats

31. Eye-Contact is an essential aspect of:

- (A) Body language
(B) Book language
(C) Chinese language
(D) Verbal intimidation

32. How far is point 'R' from Point T?

Statement (I): Point 'R' is 5 metres to the north of point 'M'. Point 'U' is 4 metres to the east of point 'R'. Point 'T' is to the west of point R' such that points 'U', 'R' and 'T' form a straight line of 6 metres.

Statement (II): Point 'Z' is 5 metres to the south of point T. Point 'U' is 6 metres to the east of point T. Point 'M' is 2 metres to the east of point 'Z'. Point 'R' is 5 metres to the north of point 'M'. Point 'R' lies on the line formed by joining points T and U.

Codes :

- (A) Statement (I) and (IT) are independently sufficient to answer the question
(B) Statement (I) and (II) are together required to answer the question,
(C) Statement (I) alone is sufficient to answer the question while statement (II) is not sufficient to answer the question.
(D) Statement (II) alone is sufficient to answer the question while statement (I) is not sufficient to answer the question,

33. If it is possible to make only one meaningful English word with the second, third, sixth and ninth letters of the word REGULATOR (using each letter only once in the words) which would be the second letter of the word from right? If more than one such word can be formed, give 'Y' as the answer. If no such word can be formed, give 'Z' as your answer:

- (A) A (B) G
(C) Y (D) Z

34. Lateral communication is between :

- (A) Supervisor and other subordinates
(B) Equals
(C) Subordinates and superiors
(D) Plain workers and Supervisors

35. The positions of how many digits will remain same if the digits in the number 49276381 are arranged in the ascending order from left to right?

- (A) None (B) Three
(C) Two (D) One

36. Which of the following is correctly matched ?

- (A) Kidney damage is caused by spores and pollen
(B) Eye irritation is caused by fluoride
(C) CO, causes damage to Kidney and Liver
(D) Depletion of Ozone layer in the stratosphere will cause skin cancer

37. Which one of the following is an example of secondary pollutant ?

- (A) CO₂ (B) CO
(C) SO₂ (D) H₂SO₃

38. "There shall be equality of opportunity for all citizens in matters relating to employment or appointment to any office under the state" is assured by:

- (A) Article 15 (B) Article 16
(C) Article 17 (D) Article 14

39. The best method of imparting value education is :

- (A) Preaching (B) Persuading
(C) Role playing (D) Modeling

40. WWW is _____

- (A) Internet
(B) All the connected networks
(C) One of the networks
(D) A document

41. Plant based pesticides :

- (a) Parathion (b) Aldrin
(c) Neem oil (d) Nicotene

Codes:

- (A) (a) and (b) (B) (b) and (c)
(C) (e) and (a) (D) (c) and (d)

42. Which of the following are true about the functioning of UGC ?

- (a) Promoting and Coordinating University Education
(b) Framing regulation on minimum standards of education
(c) Disbursing grants to the Universities and colleges
(d) Giving affiliation to the colleges

Codes :

- (A) Only (a), (b) are true
(B) Only (a), (c) are true
(C) Only (a), (b), (c) are true
(D) (a), (b), (c), (d) are true

43. Air borne pollutants that cause Asthma and Bronchitis :

- (a) Pollen grains (b) Mercury
(c) Bacteria (d) Lead

Codes :

- (A) (a) and (b) (B) (b) and (c)
(C) (a) and (c) (D) (b) and (d)

44. The Focal Theme of Indian Science Congress, 2018 is

- (A) Science and Technology : New Horizons
(B) Science and Technology: Reaching New Heights
(C) Science with Human Face
(D) Science and Technology Reaching the Unreached

45. GPRS is a:

- (A) Wired Communication Service
(B) Computer Programme
(C) Cell Phone Device
(D) Wireless Communication

46. ITES stands for :

- (A) Information Technology Engaged Systems
(B) Information Technology Enabled Systems
(C) Information Technology Enabled Services
(D) Information Technology Entry level Systems

47. One of the following is not a social networking sites

- (A) Facebook (B) Notebook
(C) LinkedIn (D) Twitter

48. Which of the following is not matched correctly?

- (A) National Academy. Hyderabad of Agricultural Research Management
(B) National Institute. Bengaluru of Mental Health and Neurosciences
(C) Directorate of Bhopal Forest Education
(D) Central Institute Ranchi of Psychiatry

49. Which one of the following is considered as the third dimension of higher education in India ?

- (A) Teaching (B) Research
(C) Extension (D) Training

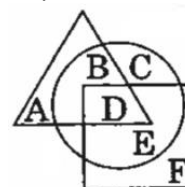
50. Which one of the following is the source of agricultural pollution ?

- (A) SO₂ (B) Fungicides
(C) H₂S (D) NO₂

51. Which of the following is the most appropriate definition for computer ?

- (A) An electro mechanical device that processes information
(B) Natural language processing machine
(C) An information processing electronic machine
(D) All of the above

52. In the figure below, the circle represents Boys, the triangle represents Players and the 'square' represents Rural. What portion represents Rural Sports Boys ?



- (A) E (B) F
(C) D (D) B

53. Which of the following is disadvantages of ICT?

- (A) Fastest dissemination of information
(B) World becoming a global village
(C) Rumors spreading at electronic speed
(D) Learning at one's own pace

54. Man Made disasters :

- (a) Earthquakes (b) Volcanic eruptions
(c) Avalanches (d) Bhopal gas tragedy

Codes :

- (A) Only (a) is correct
(B) Only (a) and (b) are correct
(C) Only (d) is correct
(D) (b) and (c) are correct

Read the following passage and answer the questions from 55 to 60 given below:

Social sciences has always been involved in an uneasy relationship with the demands of time. Of course great thinkers, Gandhi, Tolstoy, Thoreau have always advocated the role of social sciences in the previous three industrial revolutions, the forthcoming fourth one is not inclined to rate the importance of social sciences. A World Bank report says, measures are needed to enhance the quality and relevance of higher education in India so that the education system is more demand driven, quality conscious and forward looking. The problem with social sciences is that they are slow in responding to the demands of the economy. Private universities have risen to these demands and are augmenting courses like industrial psychology, labour sociology, law, management, accountancy and global governance. Alas! These are not core social sciences per se.

Abdul Kalam had understood the importance of these demands and advised engineering colleges to offer courses in philosophy, sociology and literature. It is high time social scientists rise to the occasion and stop the erosion of human values, seen in physical sciences and software technologies. They have to sell the idea that all successful men are not happy but all happy men are successful.

55. The passage is worried about the depletion of moral values among :

- (A) Software professionals
- (B) Professional politicians
- (C) Relevance of physical sciences
- (D) Importance of Government

56. Social sciences have always had :

- (A) good relationship with demands of time
- (B) no relationship with demands of economy
- (C) uneasy relationship with demands of time
- (D) slow relationship with economy

57. According to the passage every happy man is:

- (A) Successful
- (B) Arrogant
- (C) Unsuccessful
- (D) Lazy

58. The passage criticizes

- (A) Erosion of values
- (B) Negative mind set of social scientists
- (C) Advocates encouraging social sciences
- (D) Importance of sciences of management

59. Private universities :

- (A) Do not offer core social sciences
- (B) Offer core social sciences
- (C) Are slow in responding to demands of the economy
- (D) Do not help democratic aspirations

60. Abdul Kalam was a votary of:

- (A) Social Governance
- (B) Social Democracy
- (C) Social Worship
- (D) Social Sciences

ANSWER KEY - 2017

Q.No.	ANSWER	Q.No.	ANSWER	Q.No.	ANSWER
1	C	21	ALL	41	B
2	A	22	C	42	D
3	A	23	B	43	D
4	D	24	B	44	C
5	A	25	D	45	D
6	A	26	D	46	ALL
7	C	27	C	47	C
8	A	28	D	48	D
9	C	29	A	49	C
10	C	30	D	50	C
11	D	31	A	51	C
12	A	32	C	52	C
13	D	33	C	53	B
14	B	34	A	54	C
15	A	35	A	55	C
16	D	36	C	56	B
17	A	37	D	57	D
18	B	38	B	58	C
19	A	39	C	59	D
20	D	40	D	60	C

2018

1. One of the following is not a component of teaching

- (A) Consideration of the aims of education
- (B) Knowledge of theories of learning
- (C) Knowledge of evaluation
- (D) Awareness on politics

2. Identify the correct sequence of priority in the system of education

- 1. Student
- 2. Teaching method
- 3. Aims of Education
- 4. Teacher
- 5. Teaching learning material

- (A) 1, 2, 3, 4, 5
- (B) 4, 1, 2, 3, 5
- (C) 3, 1, 4, 5, 2
- (D) 5, 4, 3, 2, 1

3. Which of the following characteristics of the learner affect learning outcomes ?

- i) Prior knowledge
- ii) Developmental factors
- iii) Abilities
- iv) Learning styles
- v) Ethnicity
- vi) Skin colour

- (A) i, iii, v, vi only
- (B) i, ii, iii, iv only
- (C) i, ii, iii, iv, v only
- (D) i, ii, iii, iv, vi only

4. Which one of the following does not affect teaching ?

- (A) Subject knowledge of teacher
- (B) Physical appearance
- (C) Method of teaching
- (D) Salary and allowances

5. Match the following methods of teaching with their meaning.

- | List- I | List – II |
|-------------------------------------------------------------------------------|------------------|
| a) Oral presentation of information principles, concepts, ideas about a topic | 1) Brainstorming |
| b) Sharing experiences, ideas and attitudes | 2) Project |
| c) Generating as many ideas without judging them | 3) Lecture |
| d) A whole-hearted purposeful activity proceeding in a social environment | 4) Collaboration |
| | 5) Discussion |

Codes :

	a	b	c	d
(A)	1	2	3	4
(B)	3	5	1	2
(C)	5	4	3	2
(D)	3	4	1	2

6. A distribution that is abnormally tall and peaked is said to be

- (A) Leptokurtic
- (B) Pyrokurtic
- (C) Platykurtic
- (D) Mesokurtic

7. Variables in a cross-sectional research design are

- (A) Nominal
- (B) Ordinal
- (C) Both continuous and discrete
- (D) Both interval and ratio

8. The extent to which the findings of a research study are generalizable is called as

- (A) Convergent validity
- (B) Predictive validity
- (C) Internal validity
- (D) External validity

9. A researcher wants to know whether students attendance is randomly distributed throughout the academic year. The type of statistical test she should use is

- (A) t-test
- (B) The Co-efficient of determination
- (C) Binomial test
- (D) Chi-square test

10. The sampling technique generally used in qualitative research is

- (A) Random
- (B) Convenient
- (C) Purposive
- (D) Cluster

Read the following passage and answer the question Nos. 11 to 15.

Late Dr. A.P.J. Abdul Kalam needs no introduction for Indians today. On July 25, 2002, Dr. A.P.J. Abdul Kalam was sworn in as the 11th President of India proving to millions across the globe yet again that 'a man is what he wants to be'.

Accepted as the undisputed father of India's missile program, Abdul Kalam became for millions a figure of inspiration, a person who renewed the trust of the common man in the value of hard work and justified the necessity of having a dream for oneself. The journey of a boat owner's son, who even sold newspapers as a child, has become an epitome of determination and success. Despite his outstanding achievements, Kalam had remained a simple person with a Spartan lifestyle. In fact, after a successful missile launch, he was reluctant to meet the then Prime Minister Indira Gandhi as he felt his attire was not right for the occasion. A regular reader of the Gita, he was also fond of poetry and had written a fair amount. His two books 'Wings of Fire : an autobiography of A.P.J. Abdul Kalam' and 'Ignited Minds: Unleashing the power within India' have been the best sellers - a hot favorite among the youth. A little known facet was his penchant for playing the Rudra Veena. But what he loved above all was interacting with students, inspiring the youth to learn to dream and take India to the pinnacle of progress. Kalam's life was a mission, an affirmation of what a determined person can achieve against extraordinary odds. Even until his late age, he was indefatigable. He dreamt and taught others to dream of making India into a technological superpower. In fact he was a varied personality with an awesome uniqueness.

11. He was the undisputed father of India's missile program means

- (A) People had doubts about his calibre
- (B) His technical knowledge was questionable
- (C) He was a product of India's missile program
- (D) He was the pioneer of India's missile program

12. Kalam's life signifies the importance of

- (A) Dreams and hard work
- (B) Only dreams
- (C) Luck
- (D) Coincidence

13. Kalam's father was a

- (A) Boat rower
- (B) Boat owner
- (C) Boat maker
- (D) Boat seller

14. Kalam's lifestyle was

- (A) Lethargic
- (B) Lavish
- (C) Garish
- (D) Modest

15. He dreamt and taught others to dream of making India

- (A) Technically superior
- (B) Missile oriented
- (C) Technologically foremost
- (D) Very hardworking

16. Communication begins when a source _____ a statement.

- (A) Opens
- (B) Utters
- (C) Initiates
- (D) Starts

17. The response of the receiver that is sent back to the source forms the

- (A) reply
- (B) feedback
- (C) reaction
- (D) stimulus

18. _____ connects the source (e.g. A speaker) and the receiver (e.g. A listener)

- (A) Communication
- (B) Channel
- (C) Path
- (D) Verbal language

19. _____ is the place or setting in which a communicative event occurs.

- (A) Situation
- (B) Circumstance
- (C) Occurrence
- (D) Connection

20. _____ consists of the intention of the source, or speaker. It is the communicative aim of the speaker.

- (A) Purpose
- (B) Context
- (C) Orientation
- (D) Wish

Note : In questions numbered 21, 22 and 23 you can find a series of numbers or of letters or of both which follow a pattern. Identifying the pattern you have to choose one of the options that fills the blank given in the series.

21. 6, 27, 128, _____, 3130

- (A) 1031
- (B) 629
- (C) 369
- (D) 209

22. MNPT, JKMQ, GHJN, _____, ABDH

- (A) DEKG
- (B) DGEK
- (C) DEKG
- (D) DKGE

23. E1V, D3W, C5X, _____, A9Z

- (A) B9W
- (B) B8Y
- (C) B7Y
- (D) B6X

24. In a code if "BILL" is coded as "DKNN" then the code word for "SENT" in that code is

- (A) VGPV
- (B) UGPV
- (C) UGPU
- (D) VGPU

25. If the word "COME" is coded as "XLNV" in a code language the word coded as WZGV in it is

- (A) GATE (B) HATE
(C) DATE (D) DATA

Note : In questions numbered 26 and 27 you find a pair of words having certain relation. You have to select one pair among the four options that have the same relation as the words in the first pair.

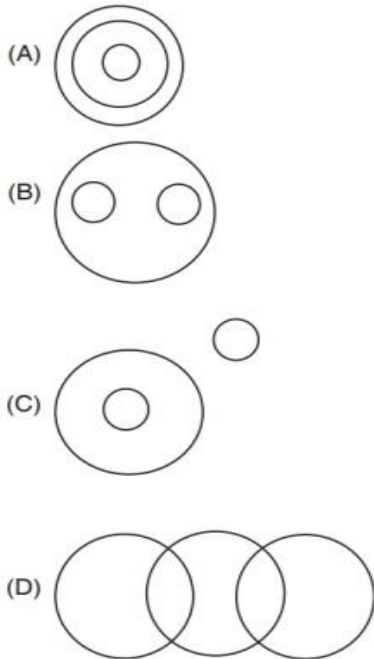
26. FOOD: HUNGER :: SLEEP : _____

- (A) REST (B) NIGHT
(C) DREAM (D) WEARINESS

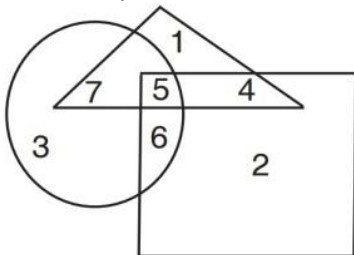
27. SUMMER: WINTER :: _____ : _____

- (A) MONDAY: SATURDAY
(B) TUESDAY: MONDAY
(C) SUNDAY: HOLIDAY
(D) JANUARY: MARCH

28. The diagram, among the following, which represents the relation between, bus, scooter and conveyance is



Note: Study the diagram given below where Δ denotes youth, \square denotes unemployed and \circ denotes educated; and answer question 29 and 30.



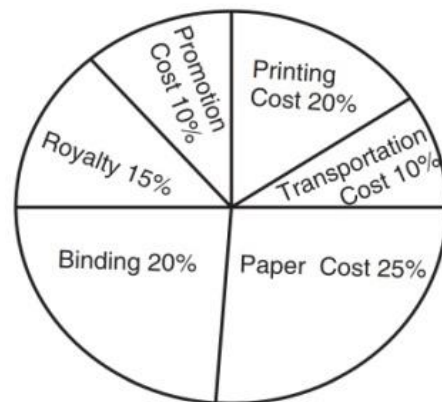
29. The region representing uneducated and unemployed youth is

- (A) 5 (B) 4
(C) 6 (D) 7

30. The regions representing educated unemployed youth are

- (A) 3 and 6 (B) 7 and 5
(C) 5 and 6 (D) 4 and 5

The following Pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the Pie-chart and answer the question from 31 to 35 based on it.



31. If for a certain quantity of books, the publisher has to pay Rs.30, 600 as printing cost, then what will be amount of royalty to be paid for these books?

- (A) Rs. 19,450 (B) Rs. 21,200
(C) Rs. 22,950 (D) Rs. 26,150

32. What is the central angle of the sector to the expenditure incurred on Royalty ?

- (A) 15° (B) 24°
(C) 54 (D) 48°

33. If 5500 copies are published and the transportation cost on them amounts to Rs. 82,500, then what should be the selling price of the Book so that the publisher can earn a profit of 25% ?

- (A) Rs. 187.50 (B) Rs. 191.50
(C) Rs. 175 (D) Rs. 180

34. The price of the Book is marked 20% above the cost price. If the marked price of the book is Rs. 180, then what is the cost of the paper used in a single copy of the book?

- (A) Rs. 36 (B) Rs. 37.50
(C) Rs. 42 (D) Rs. 44.25

35. Royalty on the book is less than the printing cost by

- (A) 5% (B) 33 $\frac{1}{5}$ %
(C) 20% (D) 25%

36. Method of delivering Information Technology (IT) services in which resources are retrieved from the Internet through web-based tools and applications, as opposed to a direct connection to a server is known as

- (A) Wikipedia
(B) LAN
(C) WAN
(D) Cloud Computing

37. Which of the following are correct about QR code?

- i) It is a two-dimensional (matrix) machine readable bar code made up of black and white squares.
ii) It is used for string URLs or other information that link directly to text, emails, websites, phone numbers.
iii) It can store up to 7089 digits.

- (A) i, ii only (B) ii, iii only
(C) i, ii, iii (D) i, iii only

38. VOLTE stands for

- (A) Voice over Long-Term Evolution
(B) Voice only Local Telecom Enterprises
(C) Velocity of Locomotive Telecom Efficiency
(D) Virtual office Level of Telecom Enterprises

39. Match the ICT terminology with their meanings.

- | | |
|--------------------------------------------------------------------------------------------------------------------------------|--------------|
| List- I | List – II |
| a) A set of instructions written in a computer language | 1) Firewall |
| b) The software that accesses and displays pages and files on the web | 2) Cookies |
| c) The practice of blindly posting commercial messages or advertisements to a large number of unrelated and uninterested group | 3) Browser |
| d) A mechanism that isolates a network from the rest of the internet, permitting only specific traffic to pass in and out | 4) Programme |
| | 5) SPAM |

Codes :

- | | | | | |
|-----|---|---|---|---|
| | a | b | c | d |
| (A) | 1 | 2 | 3 | 4 |
| (B) | 5 | 4 | 3 | 2 |
| (C) | 4 | 3 | 5 | 1 |
| (D) | 4 | 3 | 2 | 5 |

40. Which of the following is not correct about ICT?

- (A) ICT is a modern teaching aid
(B) Using of ICT in teaching reduces the physical labour a teacher
(C) ICT is a substitute for a teacher
(D) ICT in teaching facilitates learning

41. Match the following.

- | | |
|------------------------------|-----------------------------------------|
| List- I | List – II |
| (Colour codes) | (Methods for Disposals) |
| I) Yellow plastic bags | 1) Disposal in secured land fills |
| II) Black plastic bags | 2) Incineration and deep burials |
| III) Blue/white plastic bags | 3) Autoclaving and chemical treatment |
| IV) Red plastic bags | 4) Microwave treatments and distruction |
| | I II III IV |
| (A) | 4 3 2 1 |
| (B) | 1 4 3 2 |
| (C) | 2 1 4 3 |
| (D) | 3 2 1 4 |

42. Arrange the following atmospheric layers in proper order (starting from the Earth's surface)

- (1) Mesosphere (2) Thermosphere
(3) Mesopause (4) Tropopause
(5) Stratosphere (6) Troposphere
(7) Stratopause
(A) 5 → 3 → 1 → 7 → 2 → 4 → 6
(B) 6 → 4 → 7 → 1 → 3 → 5 → 2
(C) 4 → 6 → 5 → 3 → 7 → 1 → 2
(D) 6 → 4 → 5 → 7 → 1 → 3 → 2

43. Coral reefs are mainly distributed globally in

- (A) Temperate water (B) Tropical water
(C) Antarctic water (D) Arctic water

44. One of the best known matrix methods for environment impact assessment is

- (A) Leopold matrix
(B) Sphere matrix
(C) Saratoga matrix
(D) Component interaction method

45. Protected areas include national parks, wild life sanctuaries, biosphere reserves, sacred groves, reserve forests are the example for

- (A) Ex-Situ conservation
(B) In-Situ conservation
(C) Cybenetic conservation
(D) Leibig's conservation

46. NIRF stands for

- (A) National Informational Repository Fund
 (B) National Institute of Rural Folks
 (C) National Institutional Ranking Framework
 (D) National Institute of Ranking Framework

47. Which of the following are true about 'Pragathi'?

- i) It is a scholarship initiated by AICTE meant for Girl students
 ii) Amount of scholarship of Rs. 30,000/- for tuition fee or at actual, whichever is less each year of the course
 iii) Rs. 2000/- per month for 10 months as incidentals each year of the course

- (A) i, ii only (B) ii, iii only
 (C) i, ii, iii (D) i, iii only

48. Which one of the following is not a component of National Knowledge Commission (2006-2009) Report

- (A) Access to knowledge
 (B) Knowledge concepts
 (C) Delivery of services
 (D) Borrowing of knowledge

49. The minimum score of CGPA aggregate score (quantitative and qualitative) in each criterion for an institution to obtain NAAC Accreditation is

- (A) 1.50 (B) 1.51
 (C) 2.01 (D) 2.51

50. Match the following with regard to the location of the institutes.

List- I

- a) Hyderabad
 b) Dona Paula
 c) Manesar
 d) Dehradun

List – II

- 1) National Brain Research Centre
 2) University of Petroleum and Energy studies
 3) National Institute of Nutrition
 4) National Institute of Oceanography
 5) National Institute of Design

Codes :

	a	b	c	d
(A)	3	2	1	5
(B)	3	1	2	4
(C)	3	4	1	2
(D)	3	4	5	2

ANSWER KEY - 2018

Q.No.	ANSWER	Q.No.	ANSWER
1	D	26	D
2	C	27	B
3	C	28	B
4	B	29	B
5	B	30	All
6	A	31	C
7	C	32	C
8	D	33	A
9	D	34	B
10	C	35	A
11	D	36	D
12	A	37	C
13	B	38	A
14	D	39	C
15	C	40	C
16	C	41	C
17	B	42	D
18	B	43	B
19	A	44	A
20	A	45	B
21	B	46	C&D
22	A	47	C
23	C	48	D
24	B	49	B
25	C	50	C

2019

1. When a normal student behaves in an erratic manner in the class, you would :

- (a) Pull up the student then and there.
- (b) Talk to the student after the class.
- (c) Ask the student to leave the class.
- (d) Ignore the student.

2. A teacher's most important challenge is :

- (a) To make students do their home work
- (b) To make teaching-learning process enjoyable
- (c) To maintain discipline in the class room
- (d) To prepare the question paper

3. A person can enjoy teaching as a profession when he:

- (a) Has control over students.
- (b) Commands respect from students.
- (c) Is more qualified than his colleagues.
- (d) Is very close to higher authorities.

4. Maximum participation of students is possible in teaching learning through:

- (a) Discussion method
- (b) Lecture method
- (c) Use of audio-visual aids
- (d) Activity based method

5. Which of the following is not important aspect of the teacher's role in learning?

- (a) The development of insight into exam pattern and scoring
- (b) The development of insight into the pitfalls and dangers to be avoided
- (c) The provision of encouragement and moral support
- (d) The provision of diagnostic and remedial help

6. What do you consider as the main aim of interdisciplinary research?

- (a) To bring out holistic approach to research.
- (b) To reduce the emphasis of single subject in research domain.
- (c) To over simplify the problem of research.
- (d) To create a new trend in research methodology.

7. Field-work in research is involved in:

- (a) Empirical
- (b) Historical
- (c) Experimental
- (d) All the above

8. If a researcher conducts a research on finding out which administrative style contributes more to institutional effectiveness ? This will be an example of:

- (a) Basic Research
- (b) Action Research
- (c) Applied Research
- (d) None of the above

9. Which of the following statement is not correct?

- (a) Objectives of research are stated normally in first chapter of the thesis
- (b) Researcher must possess analytical ability
- (c) Variability is the source of problem
- (d) A research must prove the stated hypotheses

10. A null hypothesis state that

- (a) There is no significant difference between the variables
- (b) Same as research hypothesis
- (c) Research results are predictable
- (d) There is a significant difference between the variables

Read the passage and answers the questions from 11 to 15:

The IITs are now under the scanner of the Supreme Court following an SLP for allegedly continuing irregularities and bungling in JEE for admissions. The apex court has issued notice to the Ministry of HRD. The SLP was filed by a CS Prof at IIT Kharagpur challenging the dismissal of his PIL by the Delhi High Court in June 2010 on the ground that he had no locus standi to challenge the validity of JEE. They are yet to disclose the complete data of JEE 2010. The evaluation scheme was changed after the examination and there were serious flaws in admission counseling based on JEE 2010 results. The SLP also called for a single entrance examination, replacing all existing exams as IIT JEE, AIEEE and State exams. It further says that the RTI data on JEE was ridden with many discrepancies as adhocism in cut off determination, unattended errors in question settings/evaluation, tampering/shredding of ORS in undue haste, selecting IIT administrators wards in some IITs, closed admission counseling resulting in irregularities in admissions and seats lying vacant, zero accountability for attending to apparent errors, poor ethics in JEE administration etc.

Proposals for corrective reforms have also been suggested in the SLP. A committee of independent experts to formulate single examination system rather than close-door committee of four IIT Directors too has been suggested. It has proposed seven reforms for JAB including release of model answers along with solutions immediately after the examination is over, releasing of marks at the time of results besides publishing status of vacant seats and filled-in seats on day to day basis during the admission counseling.

11. What is wrong with IITs now?

- (a) They have academic freedom.
- (b) They get enough funds.
- (c) There is mismanagement of admission.
- (d) Education in IITs is very expensive.

12. Why did the High Court dismiss SLP?

- (a) It has no truth in it
- (b) It is expensive
- (c) Plaintiff does not belong to that area
- (d) The data was not correct

13. Which are not discrepancies of JEEs?

- (i) Cut off determination
- (ii) Mistakes in question settings/evaluation
- (iii) Tampering of ORS leisurely
- (iv) Selecting IIT administrator's wards in some IITs
- (v) Closed admission counseling with irregularities in admissions
- (vi) Total filled seats
- (vii) Non-accountability for errors
- (viii) Bad ethics in JEE administration

- (a) iii and vi
- (b) ii and v
- (c) viii and i
- (d) iv and vii

14. What is the plan of the SLP?

- (a) To conduct a common entrance test
- (b) To conduct tests at various levels
- (c) To invite foreign admissions
- (d) To invest further in education

15. How can the examination system be improved?

- (a) By going for online assessment
- (b) By introducing CBTs
- (c) By making the examination descriptive
- (d) By implementing the reforms

16. Which of the following is called dyadic communication?

- (a) Intrapersonal communication
- (b) Interpersonal communication
- (c) Group communication
- (d) Mass communication

17. Some of the following lines are not related to oral communication. Find them out:

- (i) It is spontaneous and natural
- (ii) It is not natural
- (iii) It is very far for others to understand
- (iv) It is somewhat difficult to understand
- (v) It develops a good relationship between a speaker and a listener
- (vi) Choice of words is one of the major things
- (vii) It is supported by non-verbal communication
- (viii) It is not co-related with non-verbal communication

The right answer according to the code is

- (a) i, ii and iv
- (b) v, vi and vii
- (c) vii, viii and i
- (d) ii, iv and viii

18. Match the following:

List – I

List – II

- | | |
|-------------------------------------|---------------------|
| 1. Physical Barriers | a. Semantics |
| 2. Psychological Barriers | b. Technology |
| 3. Linguistic and Cultural Barriers | c. Hall Temperature |
| 4. Mechanical Barriers | d. Self-image |

Codes:

- | | 1 | 2 | 3 | 4 |
|-----|---|---|---|---|
| (A) | c | d | a | b |
| (B) | b | d | a | c |
| (C) | a | d | c | b |
| (D) | d | c | a | b |

19. _____ communication includes individual reflection, and contemplation.

- (a) Intra
- (b) Inter
- (c) Mass
- (d) Oral

20. What is the most important quality of a good teacher?

- (a) Written communication skill only
- (b) Command of the subject
- (c) Distance from the students
- (d) Compassion for students

21. A train of length 120 meters long travelling with a speed of 54 kmph can cross a bridge of length X in 30 seconds. The length of the bridge X (in meters) is

- (a) 45 (b) 120
(c) 450 (d) 330

22. The compound interest on the principal amount 'P' for two years with the rate of 8% p.a. is Rs. 2,496, if the interest is compounded annually. Then principal amount 'P' is (in Rs.)

- (a) 12,000 (b) 2,496
(c) 15,000 (d) 20,000

23. 'A' and 'B' invested an amount Rs. 21,000 and 17,500 respectively in a business. At the end of the year, they make a profit of Rs. 26,400. Their individual shares in the profit is

- (a) 1,440 ; 1,200 (b) 14,400 ; 12,000
(c) 12,000 ; 14,400 (d) 1,200 ; 1,440

24. If 'P' can produce 60 cakes in 9 days and 'Q' can produce 70 cakes in 21 days. The number of days required to produce 100 cakes together (in days) is

- (a) 8 (b) 9
(c) 10 (d) 11

25. The missing number in the following sequence is:

4, 12, 84, 3612, _____

- (a) 6526884 (b) 6523272
(c) 7224 (d) 14448

26. The missing group of letters in the following sequence is: SAB, RBB, QCD, PDD, _____, NFF

- (a) CBY (b) RBR
(c) OEF (d) YCD

27. 'CGJN' is related to 'ACDF', in the same way 'DINQ' is related to

- (a) BEHJ (b) BEHI
(c) BEGI (d) BEGJ

28. In a certain code language, if the word 'SPHERE' is coded as EREHPS, then how is the word 'exhibition' coded in that language

- (a) NOTITBIHXE (b) NOITIDIHXE
(c) NOITIBIHWE (d) NOITIBIHXE

29. X + Y means X is the son of Y. X - Y means X is the daughter of Y. X x Y means X is the father of Y. X / Y means X is the mother of Y. If A x B / C - D / E, then A is related to E is

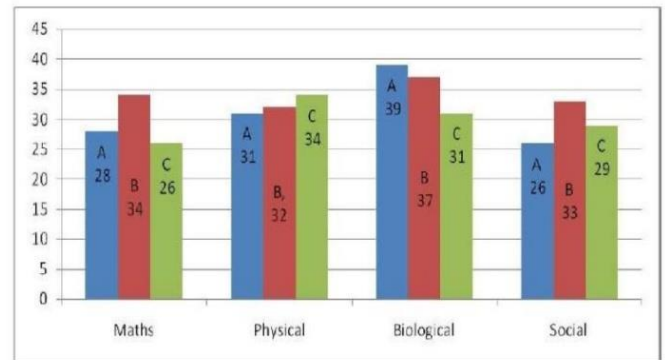
- (a) Husband (b) Brother
(c) Uncle (d) Brother in law

30. In a class of students, 55 play cricket, 65 play football and 20 play both cricket and football. How many students play at least one game.

- (a) 100 (b) 120
(c) 80 (d) 20

Note: The questions Q. 31 to Q. 35 are based on the following information:

The number of students passed in class X of a school, in the three sections A, B and C, in four subjects: Mathematics, Physical Sciences, Biological Sciences and Social science, is presented in the following multiple bar diagram. Assume the number of students in each section is 40.



31. The maximum possible number of students in section A, who passed in all the four subjects is.

- (a) 28 (b) 31
(c) 39 (d) 26

32. Out of the number of students passed in Physical Sciences, the pass percentage of students in section B is.

- (a) 29.54 (b) 31.95
(c) 32.98 (d) 35.05

33. The number of students in section C who failed in biology is.

- (a) 4 (b) 9
(c) 11 (d) 14

34. On the three section, the percentage of passing students in Mathematics is.

- (a) 40.3 (b) 68.4
(c) 73.3 (d) 80.8

35. In which subject 89.166 percentage of students passed?

- (a) Mathematics (b) Physical Sciences
(c) Biological Sciences (d) Social Sciences

36. MICR stand for

- (a) Magnetic Ink Character Reader
- (b) Magnetic Ink Code Reader
- (c) Magnetic Ink Cases Reader
- (d) Magnetic ink code recorder

37. What is embedded system”

- (a) The programme which arrives by being wrapped in box.
- (b) The programme which is the permanent part of the computer
- (c) The computer which is the part of a big computer
- (d) The computer and software system that control the machine

38. _____ are used to identify a user who returns to a Website

- (a) Cookies
- (b) Plug-ins
- (c) Scripts
- (d) ASPs

39. Protocol used by e-mail is

- (a) FTP
- (b) TCP
- (c) ID
- (d) POP

40. As a part of Government to Business (G2B) initiative the Government of India has started the following protral.

- (a) GEM
- (b) Diamond
- (c) Gold
- (d) Chanakya

41. Chipko movement is a public agitation that occurred in

- (a) Mansbal area of kashmir
- (b) Silent valley of kerala
- (c) Sunderbans area of Bengal
- (d) Theri Garhwal area of Uttar Pradesh

42. Higher amount of sulphur-dio-oxide (SO₂) is emitted in the atmosphere by –

- (a) Sugar Industry
- (b) Thermal Power plants
- (c) Food processing industry
- (d) Bulk drug manufacturing Industry

43. Who said that the forest should be saved not because they are beautiful or because they shulter wild creatures of the wilderness, but to only provide homes are jobs to people.

- (a) Aido Leopold Rachel Carson
- (b) Theodore Rosuest and pinchot
- (c) John muir and wangal Maathai
- (d) David Brower and Barry Commoner

44. Developing Nations were committed to drawing up their own plans for the emission reduction for the first time in

- (a) Cop-20 Lima Climate Conference
- (b) Cop-19 Warsaw Climate conference
- (c) Cop-18 Doha Climate Conference
- (d) Cop-11 Hyderabad climate conference

45. The 2018 meeting of the G-7 Countries + k place in La Malbaie, Quebec, Canada and Donald Trump administration officials even declined to use the phrase ‘climate change’ and instead talk about

- (a) Environmental resilience
- (b) Sustainable Development
- (c) Ecological Economy
- (d) Environmental Audit

46. Today’s Education system at higher education level is :

- (a) Supports traditional nature of teaching
- (b) It is complex in reaching people
- (c) Imparts education according to social stratification
- (d) Imparts same education to all strata of society

47. Autonomy in higher education doesn’t include freedom for the institutions in”

- (a) Administration
- (b) Policy-making
- (c) Finance
- (d) Curriculum development

48. Environmental education is important for the students of higher education because

- (a) to give them expert knowledge
- (b) to develop their awareness
- (c) to make them responsible for talking care of environment
- (d) to leave them with their own choice towards future environmental consequences

49. NAAC is an autonomous institution under the aegis of:

- (a) ICSSR
- (b) CSIR
- (c) AICTE
- (d) UGC

50. Ancient Gurukulas differ from modern residential school in providing except the following:

- (a) Accommodation
- (b) Knowledge
- (c) Vocational skills
- (d) Universal Access

ANSWER KEY - 2019

Ques	Ans	Ques	Ans	Ques	Ans	Ques	Ans	Ques	Ans
1	B	11	C	21	D	31	D	41	D
2	B	12	C	22	C	32	C	42	C
3	B	13	A	23	B	33	B	43	B
4	D	14	A	24	C	34	C	44	A
5	A	15	D	25	A	35	C	45	A
6	A	16	B	26	C	36	A	46	D
7	D	17	D	27	B	37	D	47	B
8	C	18	A	28	D	38	A	48	C
9	D	19	A	29	D	39	D	49	D
10	A	20	B	30	A	40	A	50	D

SECTION -2

SET - CHHATTISGARH

2017

1. Which one of the followings is not the ethical property of research?

- (A) Honesty (B) Justifiability
(C) Neutrality (D) Subjectivity

Read the following passage carefully and answer questions 2 to 6.

At the dawn of history India started on her unending quest, and trackless centuries are filled with her striving and the grandeur of her successes and her failures. Through good and ill fortune alike she has never lost sight of that quest or forgotten the ideals which gave her strength. We end today a period of ill fortune and India discovers herself again.

The achievement we celebrate today is but a step, an opening of opportunity, to the greater triumphs and achievements that await us. Are we brave enough and wise enough to grasp this opportunity and accept the challenge of the future?

That future is not one of ease or resting but of incessant striving so that we might fulfil the pledges we have so often taken and the one we shall take today. The service of India means the service of the millions who suffer. It means the ending of poverty and ignorance and disease and inequality of opportunity. The ambition of the greatest man of our generation has been to wipe every tear from every eye. That may be beyond us but so long as there are tears and suffering, so long our work will not be over. And so we have to labour and work hard, to give reality to our dreams. Those dreams are for India, but they are also for the world, for all the nations and peoples who are too closely knit together today for any one of them to imagine that it can live apart. Peace has been said to be indivisible, so is freedom, so is prosperity now, and so also is disaster in this one world that can no longer be split into isolated fragments. To the people of India whose representatives we are, we make appeal to join us with faith and confidence in this adventure.

This is no time for petty and destructive criticism, no time for ill-will or blaming others. We have to build the noble mansion of free India where all her children may dwell. The appointed day has come - the day appointed by destiny - and India stands forth again, after long slumber and struggle, awake, vital, free and independent. The past cling on to us still in some measure and we have to do much before we redeem the pledges we have taken so often.

Yet the turning point is past, and history begins a new for us, the history which we shall live and act and others will write about. It is a fateful moment for us in India, for all Asia and for the world. A new star rises, the star of freedom in the east, a new hope comes into being, a vision long cherished materializes. May the star never set and that hope never be betrayed!

2. In order to make our dreams a reality, we will have to:

- (A) keep thinking
(B) keep planning
(C) collect a lot of money
(D) labour and work hard

3. During the unending quest India did not forget:

- (A) Her riches (B) Her superior status
(C) Her ideals (D) Her Gods

4. For Indian future is

- (A) easy (B) full of striving
(C) full of joys (D) sceptic

5. From where has the new star of freedom arisen?

- (A) East (B) West
(C) North (D) South

6. The service of India does not mean:

- (A) the service of our leaders
(B) ending of poverty
(C) ending inequality of opportunity
(D) ending of ignorance and disease

7. The next number in the number series 7, 28, 124, 344, 1330, 2198, Will be:

- (A) 2197 (B) 2298
(C) 2198 (D) 2297

8. Semantic barriers to communication does not include:

- (A) Unclear message
(B) Faulty translation
(C) Technical words or Jargons
(D) Differences in perception

9. Find the next term of the series:

BEK, CGM, EKQ, GMS,.....

- (A) HLR (B) KQW
(C) JWQ (D) QLR

10. Level of signal is inversely proportional to the:

- (A) Reliability of a system
(B) Efficiency of a system
(C) Accuracy of a system
(D) Bandwidth of a system

11. Communicating Policy statements, programmers and objectives and issuing orders to the subordinates are referred to as:

- (A) Upward Communication
(B) Horizontal Communication
(C) Downward Communication
(D) None of the above

12. If Q, Q'' and C respectively denote the set of rational numbers, the set of irrational numbers and the set of complex numbers, then which of the following is different from the other three ?

- (A) AM, GM, HM (B) $-\frac{1}{3}, 3, \frac{7}{3}$
(C) Q, Q^*, C (D) Kaliyug, Satyug, Dwapar

13. Which of the following use routes with packet filtering rules to allow or deny access based on source address, destination address, or port number?

- (A) IP enable firewall
(B) Router enhanced firewall
(C) Packet filtering firewall
(D) Application layer firewall

14. As per W.H. Newman and C.F. Summer "communication is an exchange of _____ by two or more persons". Complete the above statement by choosing the correct alternative/ alternatives.

- (a) Facts (b) Opinion
(c) Ideas

Codes: :

- (A) (a) only (B) (b) and (c)
(C) (a), (b) and (c) (D) None of the above

15. Complete the following letter series from the options given below: abc _ _ cdacd _ _ ab _ _ d

- (A) abdca (B) abc
(C) dbabc (D) None of the above

16. The commission recommended for 180 teaching days in higher education was given by :

- (A) Radhakrishnan Commission
(B) Kothari Commission
(C) Mudliar Commission
(D) Rashtriya Gyan Ayog

17. Which of the following statements about photochemical smog is incorrect?

- (A) It has high concentration of oxidizing agent.
(B) It has low concentration of oxidizing agent.
(C) It can be controlled by controlling the release of NO_2 , hydrocarbon and ozone.
(D) Plantation of some plants like pinus helps in controlling photochemical smog.

18. Which of the following chemical has maximum bio-concentration factor?

- (A) Aldrin
(B) Benzene
(C) Tetrachloro ethylene
(D) Polychlorinated biphenyl

19. Itai-Itai disease is caused due to toxicity of which of the following metal?

- (A) Arsenic (B) Mercury
(C) Cadmium (D) Lead

20. A college can get grant from UGC only when it is covered under the section/ sections of UGC act 1956 is:

- (A) 2(i) (B) 12 B
(C) Both (A) and (B) (D) Neither (A) nor (B)

21. Which is not the objective of RUSA?

- (A) Improve the overall quality of higher education institutions.
(B) Ensure academic and examination reforms in higher education institutions.
(C) Ensure capacity building at all levels of employment
(D) Setting higher education institutes to urban and Semi-urban area.

22. Ozone depletes by which of the following system?

- (A) OH system
(B) N_2O system
(C) $CFCl_3$ or $CFCl_2$ system
(D) All the above

23. Which of the following greenhouse gas has maximum GWP (Global Warming Potential)?

- (A) Carbon dioxide (B) Methane
(C) Nitrous oxide (D) SF_4

24. Match List - I with List - II and select the correct answer using following codes:

	List – I		List – II
a	Peroxyacetyl Nitrate	i	Global Warming
b	Poly chlorinated biphenyls	ii	Photochemical smog
c	Dioxides of carbon and sulphur	iii	Water Pollutants
d	IR active	iv	Acid rain molecule
e	Organic Waste	v	Discharge from food processing plants

- Codes: (a) (b) (c) (d) (e)
(A) (ii) (iii) (iv) (i) (v)
(B) (iii) (ii) (i) (iv) (u)
(C) (v) (ii) (iii) (i) (iv)
(D) (ii) (iii) (iv) (v) (i)

25. Consider following statements :

- (a) Green chemistry refers to the redesign of chemical products and process in order of reducing or eliminating adverse environmental and health effect
(b) Eutrophication results subsequent loss of biodiversity
(c) DDT is a biodegradable pollutant.
(d) The altitude of stratosphere is about 0- 10 km from earth's surface.

Correct statements are:

- (A) (c) and (d) (B) (b) and (d)
(C) (a) and (b) (D) (b) and (c)

26. Which one of the following is an indicator of the quality of a research journal?

- (A) ISO – 2012 (B) NAAC Accreditation
(C) Impact factor (D) g-index

27. Objectivity means:

- (A) Inter-personal agreement
(B) Inter-objects agreement
(C) Inter-personal disagreement
(D) Inter-objects disagreement

28. The Evaluation through quizzes and discussions is called as:

- (A) Summative evaluation
(B) Formative evaluation
(C) Cognitive evaluation
(D) All of the above

29. Continuous and comprehensive evaluation means

- (A) Evaluation of affective and co-affective aspects with regularity.
(B) Evaluation of cognitive and co-cognitive aspects with regularity.
(C) Evaluation of conative and co-conative aspects with regularity.
(D) Evaluation of psychodynamic and Co-psychodynamic aspects regularly.

30. A researcher administered certain achievement motivation test on a group of 100 - students of class X. After scoring of the test he obtained 100 - scores on the test. The data may be called as:

- (A) Primary data (B) Secondary data
(C) Empirical data (D) (A) and (C) both

31. The purpose of higher education is to promote among students the abilities related to :

- (A) Critical evaluation (B) Creative thinking
(C) Interactive skills (D) (A) and (B) both

32. A researcher is intended to examine the after effects of earthquake on the emotional problems of individuals. Which type of research is this?

- (A) Affective Research
(B) Ex-post-facto Research
(C) Longitudinal Research
(D) Action Research

33. Action Research is :

- (A) Applied Research
(B) Longitudinal Research
(C) The research conducted for solving some recent and socially relevant problems
(D) (A) and (C) both

34. Which of the followings is not the maxims of teaching?

- (A) From simple to complex
(B) From emotion to intelligence
(C) From concrete to abstract
(D) From indefinite to definite

35. Null Hypothesis is called as:

- (A) Hypothesis of difference
- (B) Hypothesis of similarity
- (c) Hypothesis of no difference
- (D) none of the above

36. If the following statements are given

Statement:

I. All girls are scientists.

II. All scientists are peacock.

Conclusion:

I. All girls are peacock

II. Some peacocks are scientists. Then pick up the

correct answer :

- (A) Conclusion I is right.
- (B) Conclusion II is right.
- (C) Conclusion I and II both are right.
- (D) Conclusion I and II both are wrong.

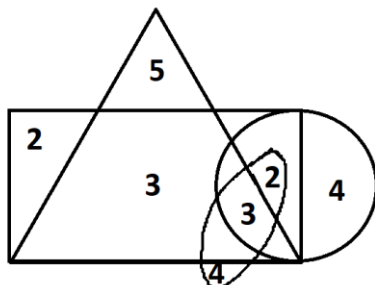
37. In the following number-letter group which is different from the others?

- (A) PH 3
- (B) VK 2
- (C) XD 6
- (D) OE 3

38. Which layer protocol provides logical communication between application processes running on different Host?

- (A) Network
- (B) transport
- (C) application
- (D) session

39. A represents students in Science, represents students in Arts, represents students in Commerce and represents students in Law, then from the following figure find how many students of Commerce are also students of Science or Arts or Law?



- (A) 4
- (B) 2
- (C) 3
- (D) 5

40. by using following table to answer the question. This table shows the "Number of oddicers in various departments of an organization in different scales":

Scales\ Deptt	Perso nnel	Opera tions	Syst ems	Acco unts	Mainte nance	Public Relations
I	225	725	750	300	325	175
II	120	426	576	288	240	150
III	75	250	320	120	85	100
IV	40	126	144	60	30	50
V	25	65	70	35	20	35
VI	4	20	28	15	8	5

What is the ratio between the total number of employees in Scale III and Scale IV respectively?

- (A) 19:9
- (B) 9:17
- (C) 9:19
- (D) 17:9

41. What is the resolution of 12 - bit data converter?

- (A) 0.00024%
- (B) 0.024%
- (C) 0.0041%
- (D) 0.041%

42. What is the address given to a computer connected to a network called?

- (A) Process ID
- (B) IP Address
- (C) SYS ID
- (D) IE address

43. Both sons Ram and Mohan of Sohan have one son and one daughter each. The only daughter Sobha of grandfather of the only son Tuku of Ram and Sobha has 350 lakhs while the mother-in-law of the daughter Priya of Mohan gave 60 lakhs to her only son Rahul. Sobha handed over half of her amount to her son. Both Tuku and Rahul handed over their money to their grandfathers. Then how much amount Sohan has now?

- (A) 55 lakhs
- (B) 25 lakhs
- (C) 30 lakhs
- (D) none of these

44. (a) six friends P, Q, R, S, T and U are members of the club and each play a different game of Football, Cricket Tennis, Basketball, Badminton and Volleyball

- (b) T who is taller than P and 5 play tennis
- (c) The tallest among them plays Basketball
- (d) The shortest among them play Volleyball
- (e) and S neither play Volleyball nor Basketball
- (f) T is in between P and Q in order of height where Q plays football

Who will be in the third place if they are arranged in decreasing order of height?

- (A) Q
- (B) P
- (C) T
- (D) S

45. In which of the following informal network does the individual communicates with everyone non-selectively?

- (A) Single strand network
- (B) gossip network
- (C) cluster network
- (D) probability network

46. Which networking device can solve the problem of excessive broadcast traffic?

- (A) Router
- (B) Switch
- (C) Bridge
- (D) Repeater

47. See following coding patterns:

Alert Bhutan from China'

'Sing Phu Lu Top

'Bebare from American Alert

Top Lu Siu Laugh

'Bebare Pakistan from China'

Putu Laugh Lu Sing'

'Nepal Alert America and India'

"Top Su Siu Kiu Pop'

Then 'Alert Nepal from China and Pakistan' will be coded as:

- (A) Sing Phu Laugh Kiu Putu Su
- (B) Sing Lu Su Putu Laugh Pop
- (C) Top Kiu Putu Pop Lu Siu
- (D) Top Pop Su Kiu Lu Sing

48. Choose the most appropriate answer.

Oral Communication is better than Written Communication for: Providing opportunity to refer back

- (B) Saving time
- (C) Conveying feelings and emotions
- (D) Conveying facts

49. Which of the following statement is false about HTTP?

- (A) It runs over TCP
- (B) It describes the structure of webpages
- (C) It allows information to be stored in URL
- (D) It can be used to test the validity of hyperlink

50. Given below a statement, followed by two arguments numbered (a) and (b). Choose the correct option from the following:

Statement:

"Are nuclear families better than joint families".

Argument:

(a) No Joint families ensure security and also reduces the burden of the work.

(b) Yes, Nuclear families ensure greater freedom.

Choose the correct answer :

- (A) Only argument (a) is strong.
- (B) Only argument (b) is strong.
- (C) Neither argument (a) nor argument (b) are strong.
- (D) Both arguments (a) and (b) are strong.

51. Rigid rules and regulations are included in:

- (A) Physical barriers
- (B) Mechanical barriers
- (C) Socio-psychological barriers
- (D) Organizational barriers

52. If D=4, COVER = 63 then BASIS=?

- (A) 49
- (B) 50
- (C) 54
- (D) 55

53. The following table gives the detail of 'Quantity of various food items used by a Restaurant during the first half of a year (in kg):

Table:

Food Items \Month	Jan	Feb	March	April	May	June
Rice	250	230	210	260	240	220
Wheat	320	340	280	290	300	360
Sugar	240	210	200	210	160	150
Pulses	360	300	320	245	235	250
Vegetables	380	390	385	375	355	370
Misc.	460	485	440	460	475	480

What is the difference between the average quantity of rice used in all the given months together and the average quantity of wheat used in all the given months together?

- (A) 60 kg
- (B) 90 kg
- (C) 75 kg
- (D) 80 kg

Study the following table and reply Questions 54 and

55. Following table shows Number of workers in the given six shifts of various factories (in thousands)

Time\Factory	L	M	N	O	P
7 am - 11 am	7.5	8.0	7.8	7.59	8.32
11 am - 3 pm	6.38	7.0	7.16	6.50	7.50
3 pm - 7 pm	6.50	7.28	6.35	6.15	7.24
7 pm - 11 pm	7.80	5.25	6.00	6.00	6.50
11 pm - 3 am	5.50	5.00	5.10	5.50	5.70
3 am - 7 am	4.20	3.00	4.12	3.50	2.15

54. What is the average number of workers working in various shifts from factory P?

- (A) 6045 (B) 6200
(C) 6235 (D) 6250

55. What is the ratio of the total number of workers from factories L and M working in the shift of "11 pm - 3 am" and the total number of workers working in the same shift from factories 'O' and 'P'?

- (A) 15:16 (B) 13:14
(C) 13:15 (D) 15:17

Reply Questions 56 and 57 after studying the following data.

Year	1960	1970	1980	1990	2000	2010	2020
Production (In lakh tonne)	17	19	23	?	31	37	?

56. What will be the production (in lakh tonnes) in 2020?

- (A) 39 (B) 41
(C) 43 (D) not deductive

57. What was the production (in lakh tonnes) in 1990?

- (A) 27 (B) 29
(C) 25 (D) not inductive

58. Match the colour code with biomedical waste disposal:

	Colour code		Biomedical waste
a	Yellow	i	Solid waste
b	Red	ii	Waste sharps
c	Blue	iii	Chemical wastes
d	Black	iv	Human anatomical waste

- Codes: (a) (b) (c) (d)
(A) (iv) (i) (ii) (iii)
(B) (i) (iv) (ii) (iii)
(C) (i) (iv) (iii) (ii)
(D) (iv) (ii) (i) (iii)

59. Match the following:

	Greenhouse gases		Source
a	Carbon dioxide	i	Fertilizer
b	Methane	ii	Refrigerant
c	CFC	iii	Wet land Rice cultivation
d	Nitrous oxide	iv	Wood fuel

- Codes: (a) (b) (c) (d)
(A) (iv) (iii) (ii) (i)
(B) (iii) (iv) (ii) (i)
(C) (iv) (ii) (iii) (i)
(D) (iii) (i) (ii) (iv)

60. Consider the following statements :

- (a) Number of government colleges in Chhattisgarh in the year 2000 were 116.
(b) All higher education institutes in Chhattisgarh are funded by respective Universities.
(c) Number of government colleges in Chhattisgarh in the year 2017 are 216.
(d) At present number of state universities in Chhattisgarh are 13.

Correct statements are:

- (A) (a) and (b) (B) (b) and (c)
(C) (a) and (d) (D) (c) and (d)

ANSWER KEY - 2017

QUE	ANS	QUE	ANS
1	D	31	B
2	C	32	C
3	D	33	A
4	B	34	B
5	A	35	B
6	B	36	C
7	B	37	D
8	C	38	B
9	B	39	B
10	B	40	A
11	A	41	C
12	C	42	B
13	C	43	D
14	D	44	A
15	B	45	C
16	C	46	C
17	B	47	C
18	D	48	D
19	A	49	A
20	C	50	D
21	B	51	B
22	D	52	A
23	B	53	A
24	D	54	C
25	C	55	B
26	C	56	B
27	A	57	D
28	B	58	C
29	B	59	A
30	C	60	B

2019

1. Distance between two stations A and B is 778 km. A train covers the journey from A to B at 84 km per hour and returns back to A with a uniform speed of 50 km per hour. The average speed of the train during the whole journey is:

- (A) 70.2 km/hour
- (B) 75 km/hour
- (C) 67.2 km/hour
- (D) None of these

2. Fill in the blanks to complete the series:

28, 84, 112, 196, 308, 504, __?__

- (A) 812
- (B) 872
- (C) 785
- (D) None of these

3. In a town of 500 people, 285 speak Hindi and 212 speak Marathi and 127 speak English, 20 speak Hindi and English not Marathi and 29 speak Hindi and Marathi not English and 35 speak English and Marathi not Hindi, remaining 50 speak none of these languages. Then how many speak only one of these three languages?

- (A) 321
- (B) 371
- (C) 312
- (D) None of the above

4. Which of the following is/are correct about routers?

- (a) Router connects Multiple Networks
- (b) Router Provides Network connection for only Wired Devices
- (c) Router assigns IP Address to the Computers
- (d) Router has a Pool of IP Addresses

- (A) (a), (b) and (c) only
- (B) (b), (c) and (d) only
- (C) (c), (d) and (a) only
- (D) None of the above

5. When a producer allows 36% on the retail price of his product, he earns a profit of 8.8%. What would be his profit percent if the commission is reduced by 24%?

- (A) 12%
- (B) 49.6%
- (C) 64%
- (D) None of these

6. Match the following:

	Column I		Column II
a	Jargon	i	Anger
b	Physical barrier	ii	Unfamiliar technical terms
c	Attitudinal barrier	iii	Increases effectiveness of communication
d	Emotional intelligence	iv	Resistance to change
e	Psychological barrier	v	Geographic distance

Code:

- | | | | | | |
|-----|------|------|-------|-------|------|
| | (a) | (b) | (c) | (d) | (e) |
| (A) | (i) | (ii) | (iii) | (iv) | (v) |
| (B) | (ii) | (iv) | (v) | (iii) | (i) |
| (C) | (ii) | (v) | (iv) | (iii) | (i) |
| (D) | (v) | (i) | (iv) | (iii) | (ii) |

7. Which of the following is not a research hypothesis?

- (A) Comparative hypothesis
- (B) Null hypothesis
- (C) Interactional hypothesis
- (D) Differential hypothesis

8. Anaerobic digestion converts biomass

- (A) Methane and carbon dioxide
- (B) Carbon monoxide and sulphur dioxide
- (C) Carbon dioxide and carbon monoxide
- (D) Hydrogen sulphide and carbon dioxide

9. **Statement (I):** Plagiarism is neither a civil nor a criminal offence.

Statement (II) : Plagiarism is illegal.

Statement (III) : Plagiarism is unethical.

Which of the following option is correct?

- (A) Statement (I) and Statement (II) are correct.
- (B) Statement (II) and Statement (III) are correct.
- (C) Statement (III) and Statement (I) are correct.
- (D) Statement (I), Statement (II) and Statement (III) are correct.

10. Which of these cannot be non-experimental research?

- (A) Field Study
- (B) Field Experiment
- (C) Case Study
- (D) Survey Research

11. Which one of the following is not the level of teaching?

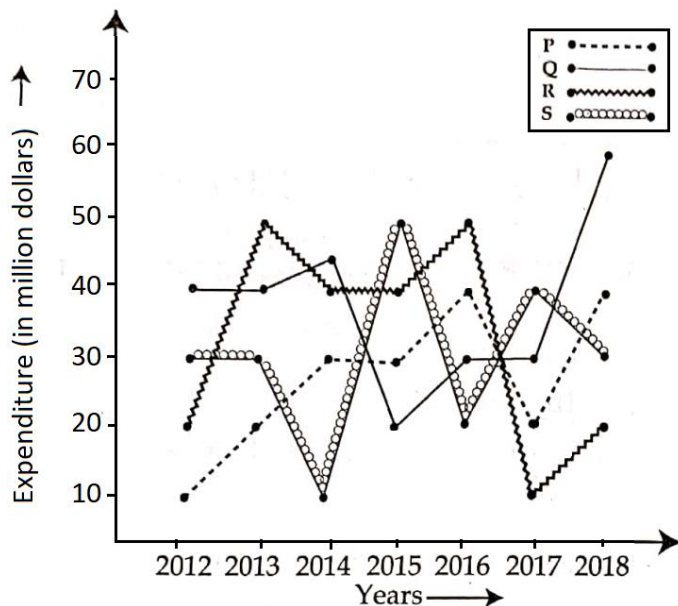
- (A) Memory level (B) Understanding level
(C) Comparative level (D) Reflective level

12. Which one of the following is in correct sequence?

- (A) Knowledge→Comprehension→Analysis→ Synthesis → Application→Evaluation
(B) Knowledge→Comprehension→Application→ Analysis→Synthesis→Evaluation
(C) Knowledge→Comprehension→Analysis→ Synthesis →E valuation→Application
(D) Knowledge→Comprehension→Synthesis→ Analysis→A pplication→Evaluation

Directions for question number 13 to 17:

Expenditure of four countries, P, Q, R and S, on arms over the years (in million dollars) are shown below:



If it is assumed that the country investing much on arms, feels unsafe, loosing foreign exchange, facing political instability, detreating relationship with neighboring countries and their economic progress being hampered, then answer following questions :

13. During 2012-2018 economy of which country has been maximum hampered?

- (A) P (B) Q
(C) R (D) S

14. Which country is losing most of its foreign exchange during 2012-2015?

- (A) P (B) Q
(C) R (D) S

15. Which country may face maximum political instability during 2014-2017?

- (A) P (B) Q
(C) R (D) S

16. In which year/years between 2012-2018 all the four countries except one have increased their expenses on arms?

- (A) 2014 (B) 2016, 2018
(C) 2014, 2017 (D) 2015

17. Which country is feeling most unsafe during 2015-2018?

- (A) P (B) Q
(C) R (D) S

18. The foundation of all scientific research is:

- (C) Formulation of hypotheses
(A) Report writing
(B) Research design
(D) Defining concepts

19. Read the following statements :

- (a) Teaching is a social act.
(b) Teaching is a personal act.
(c) Learning is a social act..
(d) Learning is a personal act.

Choose the correct option from the codes given below:

- (A) (b) and (d) (B) (a) and (d)
(C) (b) and (c) (D) (a) and (c)

20. Consider the following Assertion (A) and Reason (R) and select the correct code given below:

Assertion (A) : Teaching Effectiveness should be defined in specific contexts.

Reason (R) : Effective teachers should have good command over their subjects.

Code :

- (A) (A) is false, but (R) is true.
(B) Both (A) and (R) are true, but (R) does not provide sufficient reason for (A)
(C) Both (A) and (R) are true and (R) provides sufficient reason for (A).
(D) (A) is true, but (R) is false.

21. Learning :

- (A) Increases Intelligence Quotient (IQ).
(B) Modifies Behaviour.
(C) Develops interest
(D) (A) and (B) both

22. Which one of the following is not a quality of a good teacher?

- (A) Sound knowledge of subject matter.
- (B) Good communication skill.
- (C) Helping students in getting meaning out of what he/she teaches.
- (D) Helping students in preparing class notes.

Comprehension:

Before actually entering the university for my B.A. I had a whole year's reprieve by failing in the university entrance examination held in the high school. I had expected to fare ill in physics and chemistry, both of which had defied my understanding. I never understood what I was expected to do with the "data" provided with the so-called problems, the relevance of "atmospheric pressure" "atomic weight", or what to do with logarithm tables, or the why or how of a "normal" solution.

These points never became clear to me either through my own efforts or through our teacher's explanations. I had been certain of failure in these two subjects, but, as if by a miracle, I had somehow passed in them, though not with flying colours. On the contrary, I had failed where I was most confident - English. I failed so miserably and completely that everyone wondered if I was literate at all. My father, in spite of his strict attitudes in school matters, had one very pleasant quality-he never bothered about the examination results. He always displayed sympathy for a fallen candidate; he had no faith in the examination system at all. But even he was forced to exclaim in surprise, "Stupid fellow, you have failed in English! Why?" Proficiency in English being a social hallmark, I remained silent without offering any explanation, though I knew why. One of our English texts was a grey-bound book of chilling dullness called Explorations and Discoveries, pages full of Mungo Park's expeditions and so forth. In my whole career I have not come across any book to match its unreadability. I had found it impossible, and totally abolished it from my universe, deciding to depend upon other questions in the examination from Oliver Twist or Poetical elections. But I found in the examination hall that four out of six questions were based on Explorations - that horrible man the question-setter seemed to have been an abnormal explorations. I gave up, left the examination hall in half an hour, and sat in contemplation on one of the brick monuments beside the lily pond.

Answer question 23 to 27 based on the above passage.

23. Why was it necessary to learn English well in those days?

- (A) English was considered an easy subject
- (B) In English the prescribed texts were very interesting
- (C) English gave opportunity to sit and contemplate.
- (D) It was a hallmark of social status.

24. The word 'faith' in the above passage means:

- (A) Religion
- (B) Intention
- (C) Trust
- (D) Not loyal

25. The expression: 'Abolished it from my universe' in the passage means that he paid no attention to that book. Therefore, 'abolished' and 'universe' here are examples of:

- (A) multiple meaning
- (B) extended meaning
- (C) overlap of meaning
- (D) pun

26. The author's father was not disturbed by his son's examination results because : (Choose the most appropriate option from those given below)

- (A) He was a man of wide sympathies.
- (B) He did not think the examination system was fair and reliable.
- (C) He knew that his son was stupid.
- (D) His son gave a convincing explanation

27. In what subjects did the author pass?

- (i) Physics
- (ii) Chemistry
- (iii) English

Choose the correct option from those given below:

- (A) (i) and (ii)
- (B) (ii) and (iii)
- (C) (i) and (iii)
- (D) (i), (ii) and (iii)

28. Match the following in respect of schemes and their objectives.

	Abbreviations		Objectives
a	OSCAR	i	One stop education Portal
b	NPTEL	ii	Ranking based on innovations of the institutions
c	ARIIA	iii	Building engineering and core science courses.
d	SAKSHAT	iv	Animations repository

- Code : (a) (b) (c) (d)
- (A) (i) (ii) (iv) (iii)
- (B) (ii) (i) (iii) (iv)
- (C) (iv) (iii) (ii) (i)
- (D) (iii) (iv) (ii) (i)

29. Match the following.

	List-I		List-II
a	Kinetics	i	Body movements
b	Encoding	ii	Formulation of message
c	Verbal communication	iii	Skype calls
d	Proxemics	iv	Space around the speaker
e	Communico	v	Participate

Code : (a) (b) (c) (d) (e)
 (A) (iii) (ii) (v) (i). (iv)
 (B) (i) (ii) (iii) (iv). (v)
 (C) (v) (iv) (iii) (ii). (i)
 (D) (i) (ii) (v) (iii). (iv)

30. Match the types of barriers to communication in List - I with the factors that cause them given in List - II.

List - I	List - II
(a) Physical and Mechanical barriers	(i) Jargonese
(b) Socio-psychological	(ii) Lack of barriers confidence
(c) Semantic barriers	(iii) Time and distance
(d) Personal barriers	(iv) Distrust

Code:
 (a) (b) (c) (d)
 (A) (iii) (iv) (i) (ii)
 (B) (ii) (iii) (i) (iv)
 (C) (iv) (iii) (i) (ii)
 (D) (iii) (i) (ii) (iv)

31. Which of the following abbreviations are correct?

- (a) GUI - Graphic User Interface
 (b) ISP - Internet Service Provider
 (c) GIGO - Garbage in Garbage Out
 (d) VPN - Virtual Personal Network

- (A) (a), (b) and (c) only
 (B) (b), (c) and (d) only
 (C) (c), (d) and (a) only
 (D) (a), (b), (c) and (d)

32. Which of the following is not a characteristic of communication?

- (A) It is a two-way process
 (B) Its flow is linear
 (C) It involves information sharing and understanding
 (D) It is a continuous process in business and non-business organisations

33. Which of the following is true regarding vehicular traffic pollution?

- (i) Implementation of BS-6 norms from April 2020.
 (ii) Implementation of BS-5 norms from April 2020
 (iii) BS-6 norms are related to Engines.
 (iv) BS-5 norms is related to Engines.
 (v) BS-6 norms is related to Fuel.
 (vi) BS-5 norms is related to Fuel.

Which of the following is correct?

- (A) (i), (iii), (v) only (B) (ii), (iii), (vi) only
 (C) (i), (iii) only (D) None of the above

34. Statement: "Should a law be made to make marriage ages of boys and girls equal?"

Arguments:

- (I) Yes, boys and girls are equal in the society
 (II) No, girls become physically matured earlier than boys.

Select the most suitable answer:

- (A) Only argument (I) is strong.
 (B) Only argument (II) is strong.
 (C) Either (I) or (II) is strong.
 (D) Neither (I) nor (II) is strong.

35. Which is the correct statement?

- (a) Team communication should be more informal and sometimes formal.
 (b) Personal communication should be more formal and sometimes informal.

- (A) Both (a) and (b) are correct
 (B) (a) is correct and (b) is incorrect
 (C) (a) is incorrect and (b) is correct
 (D) Both (a) and (b) are incorrect

36. Identify the correct statement :

- (a) After independence to revamp the whole education system Radhakrishnan Education Commission was established in the year 1948-49.
 (b) Later on Kothari Commission was appointed and the reports of these two commissions was made the base for New Education Policy - 1989.

- (A) Both (a) and (b) are correct.
 (C) (a) is correct, but (b) is incorrect.
 (B) Both (a) and (b) are incorrect.
 (D) (a) is incorrect, but (b) is correct.