PAPER – I

Note : There are **fifty (50)** questions. The questions carry **two (2)** marks each.

1. All of the following are examples of physical security concept except :

   (A) Storing tapes and disks not in use in separate building

   (B) Using passwords to access a system

   (C) CCTV

   (D) Limiting excess to a computer system

2. Referring to the list below, choose the code with the correct combination which constitutes the evaluation procedure :

   (i) A teacher awards grades to students after having transacted the course work.

   (ii) During interaction with students in the classroom, teacher provides corrective feedback.

   (iii) The teacher gives marks to students on a unit test.

   (iv) The teacher clarifies the doubts of students in the class itself.

   (v) The overall performance of a student is reported to parents at every three months interval.

   (vi) The learner's motivation is raised by the teacher through a question-answer session.

   Codes :

   (A) (i), (ii) and (iii)

   (B) (ii), (iii) and (iv)

   (C) (i), (iii) and (v)

   (D) (ii), (iv) and (vi)

3. The research method emphasizing on developing new knowledge and new theories about the topic being investigated is

   (A) Action research

   (B) Phenomenology

   (C) Ethnography

   (D) Grounded theory

4. Which of the following are features of the qualitative research paradigm ?

(i) The research is concerned with understanding the social phenomena from the participant's perspective.

(ii) It seeks to establish relationships, among variables and explain the causes of changes in measured social facts.

(iii) It is conducted in actual settings as the direct source of data and the researcher is the instrument.

(iv) It is concerned with the process rather than simply with outcomes or products.

(v) It attempts to establish universal context-free generalization.

Choose the correct code from the options given below :

Codes :

(A) (i), (ii) and (iii) only

(B) (ii), (iii) and (iv) only

(C) (iii), (iv) and (v) only

(D) (i), (iii) and (iv) only

5. The full form of GRP in advertising is

(A) General Rating Point

(B) Gross Rating Point

(C) General Reading Point

(D) Gross Reading Point

6. The value of $\frac{\frac{1}{2} \div \frac{1}{3} \times \frac{3}{4}}{\frac{1}{2} \div \frac{1}{3} \text{ of } \frac{3}{4}}$ is

(A) $\frac{9}{4}$

(B) $\frac{9}{8}$

(C) 1

(D) $\frac{9}{16}$

7. Find the odd-one-out :

(A) Taste (B) Chew

(C) Gulp (D) Swallow

Four students P, Q, R, S appeared in four papers in a test. There scores out of 100 are given below :

Students	Papers			
	I	II	III	IV
P	72	76	A	68
Q	74	A	71	65
R	59	43	51	A
S	60	81	45	44

Where 'A' stands for absent.

Read the above table and answer the questions given below (Questions **8** to **12**).

8. Which candidate has scored between 55%–65% marks in aggregate ?

(A) P (B) Q

(C) R (D) S

9. Who has obtained the lowest average in aggregate ?

(A) P (B) Q

(C) R (D) S

10. Who has obtained the highest average in aggregate ?

(A) P (B) Q

(C) R (D) S

11. In which paper the lowest marks were obtained by the candidates?

(A) I
(B) II
(C) III
(D) IV

12. Which candidate has secured the highest percentage in the papers appeared?

(A) P
(B) Q
(C) R
(D) S

13. In an RO water purification system, water is purified using the reverse osmosis process. There are concerns in some quarters regarding the adverse affect on health when used for drinking because

(A) the water gets ionised
(B) all dissolved solids are removed
(C) water is not purified properly
(D) chemicals in the system remain as residues in water

14. Sardar Sarover Dam is located on the river

(A) Ganga
(B) Narmada
(C) Kaveri
(D) Padma

15. Which one of the following is called lifelong process?

(A) Motivation
(B) Training
(C) Inspiration
(D) Education

16. When the learning outcomes of students are ensured with employment of less resources and effort on the part of the teacher and more initiative for self-learning is evident, which of the following expression will describe the teacher most appropriately?

(A) Teacher is successful
(B) Teacher is intelligent
(C) Teacher is practical
(D) Teacher is effective

SEAL

Read the following passage and answer the question numbers **17** to **20** :

There is no such thing as a 'brief' history of the Olympics. That is because the Olympics started thousands of years ago in Ancient Greece. Greek city-states used to send athletes to compete against each other with the reputation of the city and its people on the line.

These Ancient games helped create peace among the cities by bringing people together for friendly competitions.

The modern Olympics began in 1896, but the first one was very different to the Olympics we know today. Only 14 countries and 176 athletes, all of them men, competed in the games, which were hosted in Athens. Still, the Olympics were successful and helped to improve cooperation amongst nations. Just four years later, women competed in the 1900 Olympics in Paris.

Over time, the Olympics grew more popular and more nations started sending competitors. In 1924, the winter Olympics was started. The first winter Olympics was started in Chamonix, France. Only 16 nations and 258 athletes participated, competing in just 16 different events. Like the summer Olympics the winter games too became popular over time. Following World War II, Olympics became an important part of the Cold War and were vital in maintaining world peace. During the Cold War, the world was divided between communism and capitalism, with the Soviet Union and the USA competing intensely with each other. The Olympics were one of the main ways in which these two nations competed.

At the same time, many new nations were coming into existence. With the Colonial empires of France, the United Kingdom and others crumbling, new countries were founded. Many of these countries wanted to prove themselves to the world and the Olympics was one of the ways to do so.

From humble beginnings, the Olympic games have evolved into the grandest games on earth. In fact, the Rio Olympics saw 205 counties with over 10,000 athletes competing in 302 different events. Furthermore, while the Olympics was predominantly hosted by developed countries through much of their modern history, recent games have been hosted by developing nations, such as, Brazil and China. Many up-and-coming nations now view the Olympics as a way to announce their prosperity to the world.

Currently, the USA dominates the world stage and has taken home the most medals in nearly every summer Olympics over the past few decades. During the Beijing Olympics in 2008, China came close to taking home the most medals but couldn't quite beat the USA.

Recently, criticism over the costs and burden of the games has increased. Norway pulled out of a winter Olympics bid just a few years ago because its citizens did not want to deal with the hassle. Meanwhile, the summer Olympics in Rio de Janeiro faced many set backs and challenges.

So, what does the future hold for the Olympics? They will certainly continue to be hosted but given these issues, reform may be inevitable for the games.

17. When was the modern Olympics first held for both the genders?

(A) In the year 1900
(B) In the year 1924
(C) In the year 1896
(D) Thousands of years ago

18. What purpose did the Ancient Olympics serve?

(A) Supremacy in the Cold War era
(B) Peace by way of competitions
(C) As an indicator of development and prosperity
(D) As a grand extravaganza

19. Which of the following is not true about the modern Olympics?

(A) It is about the reputation of the Greek cities and the people.
(B) It is an opportunity for countries to announce their prosperity.
(C) It helps newly formed countries to prove themselves.
(D) It is one of the grandest sports events on the planet.

20. Which country came closest to beating the USA in medals tally in modern Olympics?

(A) USSR
(B) Brazil
(C) Greece
(D) China

SEAL

21. A train 140*m* long passes a platform 60*m* long in 10 seconds. The speed of the train is

(A) 20*m*/*s* ✓ (B) 14*m*/*s*

(C) 8*m*/*s* (D) 6*m*/*s*

22. Communication that happens among persons of equal status and at the same level of the organisation is known as

(A) horizontal communication ✓ (B) upward communication

(C) downward communication (D) status communication

23. The average of first five consecutive odd natural numbers is

(A) 3 (B) 4 ✓

(C) 5 (D) 6

24. Pointing out to a slim fair lady Padmaja said—'She is the daughter of the woman who is the mother of the husband of my mother'. How is the lady related to Padmaja ?

(A) Granddaughter (B) Daughter

(C) Sister (D) Aunt ✓

25. In a household A.C. mains 3-pin plug, the three pins are :

(A) positive, negative and ground (B) live, neutral and earth ✓

(C) positive, line and ground (D) power, line and ground

26. The [ ] was one of the most historic COP conferences, which approved the Paris Agreement on climate change.

The appropriate term in the box is

(A) COP 17 (B) COP 19

(C) COP 21 (D) COP 26 ✓

27. The major components of the NMEICT are

(i) to provide books and stationary to students

(ii) to provide connectivity, along with provision for access devices, to institutions and learners

(iii) to facilitate travel of girl students to attend educational institutions

(iv) content generation

(v) to provide scholarships to poor students to support their education

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

28. The Intelligence Quotient (I.Q.) is equal to

(A) $\frac{\text{C.A.}}{\text{M.A.}} \times 100$
(B) $\frac{\text{M.A.}}{\text{C.A.}} \times 100$
(C) $\frac{\text{Total score}}{\text{C.A.}} \times 100$
(D) $\frac{(\text{C.A.})^2}{(\text{M.A.})^2} \times 100$

29. Participant observation is a part of

(A) Quantitative research
(B) Qualitative research
(C) Ethnographic research
(D) Both (B) and (C)

30. In a classroom, a communicator's trust level is determined by

(A) the use of hyperbole
(B) the change of voice level
(C) the use of abstract concepts
(D) eye contact

31. Which one of the following is the largest?

(A) 5/8
(B) 2/3
(C) 7/9
(D) 3/5

32. If green means red, red means yellow, yellow means blue, blue means orange and orange means green; what is the colour of clear sky during Autumn season in Assam and North-East India?

(A) Blue
(B) Red
(C) Yellow
(D) Green

33. Cloud storage is

(A) storage at a high altitude
(B) physical storage spanning multiple servers
(C) where data can only be stored but cannot be altered
(D) physical storage in a single on-site server

34. The Indian social worker and environmentalist who won the 'Green Nobel' for fight against coal mining is

(A) Sunderlal Bahuguna
(B) Ramesh Agrawal
(C) Kailash Satyarthi
(D) Anil Kumar Agrawal

35. The main objectives of NCTE is

(A) to co-ordinate nationally, teaching in English
(B) to promote planned and co-ordinated teaching practiced in engineering discipline
(C) to achieve planned and co-ordinated development of the teacher education system
(D) to develop new courses using modern theories in education

36. It is an education learning platform initiated by the Ministry of Human Resource Development (now Ministry of Education), Government of India, available 24×7 through 40 DTH channels. It is

(A) SWAYAM PRABHA
(B) SWAYAM
(C) VIDYA PRABHA
(D) VIDYA

37. Which of the following is a probability sampling?

(A) Snowball sampling

(B) Cluster sampling

(C) Purposive sampling

(D) Dimensional sampling

38. Match each item of List–I with the right item of List–II and select the correct match from the codes given below :

List–I	List–II
1. The People's Chronicle	(i) Assam
2. Dainik Sambad	(ii) Meghalaya
3. Vanglaini	(iii) Arunachal Pradesh
4. The Sentinel	(iv) Sikkim
	(v) Manipur
	(vi) Mizoram
	(vii) Tripura

Codes :	1	2	3	4
(A)	(iii)	(vii)	(vi)	(iv)
(B)	(iv)	(ii)	(vi)	(i)
(C)	(v)	(vi)	(vii)	(ii)
(D)	(v)	(vii)	(vi)	(i)

39. Which of the following is a perfect square?

(A) 100000

(B) 357822

(C) 1234321

(D) 5634713

40. If AG : IQ, EK :

(A) LR

(B) PV

(C) MS

(D) MU

41. A 'Home Page' of a website is :

(A) the primary web page a visitor will view on a website

(B) the final page the visitor will reach browsing through a website

(C) the postal address of the business owning the website

(D) the page with the richest content in a website

42. Which one of the following focal themes were discussed in the UN Summit on Earth in 1992 ?

(A) Woman Empowerment

(B) Child Labour

(C) Environment and Sustainable Development

(D) Carbon trading and World Peace

43. In which list of subjects in the Constitution of India is higher education included ?

(A) Central List

(B) Local List

(C) State List

(D) Concurrent List

44. If a girl student requests you to collect her post at your address, what would you like to do in this case as a teacher ?

(A) You would not give permission, as it is your own principles.

(B) You will never allow her suspecting a foul game

(C) As a teacher you will allow her

(D) You will permit her because you may get in touch with her

45. Which of the following statements is true in the context of a hypothesis in statistics ?

(A) It is only the alternative hypothesis, that can be tested

(B) It is only the null hypothesis, that can be tested

(C) Both, the alternative and null hypothesis can be tested

(D) Both, the alternative and null hypothesis cannot be tested

46. Using the central point of the classroom communication as a beginning o a dynamic pattern of ideas is referred to as

(A) Systemisation
(B) Problem-orientation
(C) IDEA protocol
(D) Mind mapping

47. The cost price of 3 pens is equal to the selling price of 4 pens. What i the gain or loss per cent?

(A) 20% loss
(B) 20% gain
(C) 25% loss
(D) 25% gain

48. There are [ ] kinds of Vyapti. The correct number in the bo is

(A) two
(B) three
(C) four
(D) five

49. Data mirroring is

(A) mirroring of the information displayed on one screen parallely o another screen
(B) inversion of the pixel data in an image
(C) duplicating of data onto another storage device
(D) checking of the data for errors

50. Pollution indicator plants are

(A) resistant to Pollution
(B) purifier of air pollutants
(C) can indicate the onset of disaster
(D) sensitive to pollutants

SEAL