1. Which among the following is an essential mineral for both activation and action of thrombin?
   A) Sodium   B) Chloride   C) Calcium   D) Magnesium

2. The category of animals which have a mixed heart (oxygenated and deoxygenated blood mixed)?
   A) Birds   B) Nematodes   C) Fishes   D) Reptiles

3. Why radiation is not employed in radiotherapy?
   A) Ionizing radiation   B) Not cost effective
   C) Unable to penetrate skin   D) Toxic to human tissues

4. The rock more harder than its original constituent is;
   A) Coal   B) Metamorphic rock
   C) Igneous rock   D) Sedimentary rock

5. The unit used to express distances to stars and galaxies, used by professional astronomers:
   A) Light minutes   B) Parsecs
   C) Billion kilometres   D) Parallax

6. 'The Man Who Knew Infinity' is a biographical drama film. Identify the personality:
   A) Sir. C. V. Raman   B) Meghnad Saha
   C) Sir Jagadish Chandra Bose   D) Srinivasa Ramanujan

7. The specialized agency of the United Nations which celebrated its centenary in 2019:
   A) Food and Agricultural Organization
   B) International Labour Organization
   C) World Health Organization
   D) International Court of Justice

8. The recipient of the prestigious Indian literary award, Saraswati Samman of 2020 (30th edition):
   A) Vasdev Mohi   B) K. Siva Reddy
   C) Sharankumar Limbale   D) Sitanshu Yashaschandra

9. Match the following List I(Persons) with List II(Field)

List I		List II
a.	Panini	1. Astronomy
b.	Bhavabhuti	2. Ayurveda
c.	Varahamihiran	3. Grammar
d.	Vagbhata	4. Literature

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

10. Which of the following are the Fundamental Rights according to the Constitution of India?
1. Right to Freedom
2. Right to equal pay for equal work
3. Cultural and educational rights
4. Right to constitutional remedies

A) 1, 2 & 3 only
B) 2 & 3 only
C) 1, 3 & 4 only
D) 1 & 4 only

11. Some events related to social reform movements in Kerala are given below. What is the correct chronological order in which they occurred?
1. Villuvandi Samaram
2. Guruvayur Satyagraha
3. Formation of SNDP Yogam
4. MisraBhojanam organized by Sahodaran Ayyappan.

A) 1, 3, 4, 2
B) 2, 3, 4, 1
C) 4, 2, 3, 1
D) 3, 4, 1, 2

12. Nathu La Pass connects:
A) Punjab and Pakistan
B) Sikkim and Tibet
C) Uttarakhand and Nepal
D) Arunachal Pradesh and China

13. The first United Nations Conference on the Human Environment (UNCHE) was held at:
A) New York
B) Johannesburg
C) Stockholm
D) Rio de Janeiro

14. The theory which suggests that life existed in outer space and was transported by meteorites, asteroids, or comets to a receptive Earth?
A) Theory of chemical evolution
B) Cosmic evolution
C) Panspermia
D) Microorganismic theory

15. The age of Pericles is regarded as the golden age in European history. Similarly in India which period is considered as the golden age?
A) Maurya period
B) Gupta period
C) Mughal period
D) Vijayanagar Period

16. Match the following UN Agencies in List I with their locations in List II
List I
a. International Atomic Energy Agency
b. International Court of Justice
c. World Intellectual Property Organization
d. International Monetary Fund

List II
1. Washington DC
2. Geneva
3. Vienna
4. The Hague

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

17. Goods and Services Tax (GST) was introduced in India as per ------ constitutional amendment act
A) 101
B) 110
C) 111
D) 121

18. In India, crops are broadly classified into Rabi and Kharif crops, based on the climatic conditions. The words Rabi and Kharif originated from:
    A) Greek   B) Latin   C) Persian   D) Arabic

19. A person X has four notes of 10,20,50 & 100 denomination. The number of different sums of money X can form from them is:
    A) 8   B) 15   C) 12   D) 16

20. Match the following
	List-I		List-II
a.	National Sports Day in india	1.	11 November
b.	World Teacher's Day	2.	7 April
c.	National Education Day in India	3.	29 August
d.	World Health Day	4.	5 October

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

21. If an airplane covers 300 kilometers in 12 minutes, the distance covered by the plane in 75 minutes is
    A) 1200 km   B) 1875 km   C) 1800 km   D) 2000 km

22. A is 40 percent more efficient than B. If B takes 6 days more than A to complete a work alone, then in how many days A alone can complete the same work?
    A) 12 days   B) 14 days   C) 15 days   D) 20 days

23. Find the missing number in the series 8, 24, 12, 36, 18, 54, ----.
    A) 162   B) 27   C) 182   D) 6

24. If the average of five consecutive odd numbers is 21, then the least odd number is:
    A) 13   B) 15   C) 17   D) 19

25. How many cubes having side of 7 cm. can be made from a cylinder with a height of 196 cm. and a radius of 14 cm?
    A) 352   B) 452   C) 552   D) 252

26. The expansion of MUDRA in the Pradhan Mantri Mudra Yojana is:
    A) Micro Units Development and Reconstruction Agency
    B) Medium Units Development and Refinance Agency
    C) Micro Units Development and Refinance Agency
    D) Medium Units Development and Reconstruction Agency

27. Which of the following is not a crypto currency?
    A) Bitcoin   B) Ethereum   C) Zcash   D) Fastcash

28. The United States rover which landed on Mars in February 2021:
    A) Perseverance   B) Curiosity   C) Mariner   D) Hope

29. Identify the members of the QUAD group, a coalition of maritime democracies, formed   to ensure and sustain an open, free, and prosperous Indo-pacific region:
A) India, Australia, Japan, Qatar
B) India, Bangladesh, Russia, Qatar
C) India, Japan, Sri Lanka, United States
D) India, Japan, Australia, United States

30. According to the New Education Policy 2020, the present 10 + 2 structure of school curriculum is to be replaced by which of the following structure?
A) 3 + 5 + 5 + 2   B) 3 + 5 + 4 + 3
C) 2 + 5 + 5 + 3   D) 5 + 3 + 3 + 4

31. Find the odd one out.
A) Google Chrome   B) Bing   C) Firefox   D) Microsoft Edge

32. Winner of the inaugural World Test Championship 2021
A) India   B) Australia   C) England   D) New Zealand

33. Which of the following Union territories in India were amalgamated in 2019?
A) Jammu & Kashmir and Ladakh
B) Dadra &Nagar Haveli and Daman & Diu
C) Andaman and Nicobar
D) Pondicherry and Lakshadweep

34. The Gandhi Peace Prize 2020 was awarded to:
A) Sultan Qaboos
B) Sheikh Mujibur Rahman
C) Khalifa bin Zayed bin Sultan Al Nahyan
D) Benjamin Netanyahu

35. Identify the meaning of the idiom given in italics in the following sentence.
The flood had destroyed all the road signs leaving drivers and commuters *at sixes and sevens.*
A) confused   B) mixed   C) obsessed   D) careful

36. Replace the underlined words in the following sentence with one word
He is a person who looks only at the darker side of life.
A) pacifist   B) pessimist   C) critic   D) positivist

37. 'She sells sea shells on the sea shore' is an example of which figure of speech?
A) Alliteration   B) Onomatopoeia
C) Simile   D) Irony

38. The Gahirmatha Marine Wildlife Sanctuary and the world's largest nesting beach for the vulnerable Olive Ridley turtles is located in:
A) Andhra Pradesh   B) West Bengal
C) Odisha   D) Tamil Nadu

39. The element which is present in all acids :
    A) Hydrogen   B) Nitrogen   C) Chlorine   D) Calcium

40. $(16)^{0.25} \times (0.5)^2 =$
    A) 1   B) 4   C) 2   D) 0.5

41. The Puerto Rico trench is situated in:
    A) Indian Ocean   B) Atlantic Ocean
    C) Pacific Ocean   D) Arctic Ocean

42. Which of the following is not a tax imposed by Government of India
    A) Corporate Tax   B) Land Revenue
    C) Integrated GST   D) Income Tax

43. Who wrote the novel 'Agnes Grey'?
    A) Emily Bronte   B) Charlotte Bronte
    C) Jane Austen   D) Anne Bronte

44. The movement which started in Travancore against the administrative reforms introduced in 1932
    A) Electricity Agitation   B) Pattini Jatha
    C) Anti Repression Movement   D) Nivartana Agitation

45. The campaign by Kerala Government against drug and alcohol addiction and other substance abuse::
    A) Jagratha   B) Thalolam   C) Subodham   D) Snehasparsham

46. Meaning of the phrase 'fall out 'is:
    A) Decrease   B) Collapse   C) Agree   D) Quarrel

47. If nightingales warble, then owls:
    A) Hiss   B) Gobble   C) Hoot   D) Squeak

48. Either the boy or his parents -------apologise
    A) is to   B) have to   C) has to   D) was to

49. I dislike ------.

    A) to wait   B) waiting   C) to be waiting   D) wait

50. A man walking at a speed of 10 km/hr reaches his work place 15 minutes late. Next day, he increases his speed by 2km/hr, but still is late by 5 minutes. What is the distance between the work place and his house?

    A) 8 km   B) 9.5 km   C) 10 km   D) 11.2 km

51. Fact 1: Robert has four vehicles.
    Fact 2: Two of the vehicles are red
    Fact 3: One of the vehicles is a minivan
    If the three statements are facts, which of the following statements must also be a fact?

    I.   Robert has a red minivan
    II.   Robert has three cars
    III.   Robert's favorite colour is red

    A)   I only   B)   II only
    C)   II and III only   D)   None of the statement is known fact

52. ISRO has set up a dedicated space situational awareness control centre named:
    A)   NETRA   B)   ISTRAC   C)   SSA   D)   CAIR

53. Which state has recently declared 2020 as the year of Artificial Intelligence (AI) and has signed MoUs with tech firms for AI research?
    A)   Kerala   B)   Assam
    C)   Telengana   D)   Andhra Pradesh

54. The ------- convention adopted for the protection of ozone layer
    A)   Vienna   B)   Basel   C)   Bonn   D)   Stockholm

55. The ------- national park was declared as a UNESCO biosphere reserve in 2020
    A)   Panna   B)   Khangchendzonga
    C)   Bandipur   D)   Kaziranga N

56. The digital stethoscope called AyuSynk to check patients who were infected with COVID- 19 was developed by
    A)   IIT Chennai
    B)   DRDO
    C)   IIT Mumbai
    D)   CSIR-Central Mechanical Engineering Research Institute, Durgapur

57. The chairman of the National Expert Group On Vaccine Administration for COVID-19 (NEGVAC)
    A)   Dr V K Paul   B)   Amitabh Kant
    C)   Rajiv Kumar   D)   None of these

58. Winner of the French Open 2021 men's singles title:
    A)   Rafel Nadal   B)   Novak Djokovic
    C)   Dominic Thiem   D)   Roger Federer

59. The Asian Games 2022 will be hosted in:
    A)   India   B)   Japan   C)   China   D)   Indonesia

60. The prestigious Akashvani Music Festival has been renamed after
    A)   Pandit Bhimsen Joshi   B)   Pandit Ravi Shankar
    C)   M S Subbulakshmi   D)   Pandit Shivkumar Sharma

61. Basic education was introduced in India by:
    A) Sri.Aurobindo   B) Rabindranath Tagore
    C) Swami Vivekananda   D) Gandhiji

62. A progressive teaching philosophy that challenges students to examine power structures and patterns of inequality within the status quo was put forwarded by:
    A) Rabindranath Tagore   B) Swami Vivekananda
    C) Paulo Freire   D) Socrates

63. Anu shows comparatively better performance in designing and preparing sketches.
    She is dominant in:
    A) Logical Mathematical Intelligence
    B) Interpersonal Intelligence
    C) Visuospatial Intelligence
    D) Linguistic Intelligence

64. The article ------ of Indian Constitution ensures free and compulsory education to all children of the age of six to fourteen years
    A) 21 A   B) 30 A   C) 28   D) 14

65. Rabindranath Tagore suggested that 'The widest road leading to the solution of all our problems is':
    A) Pedagogy   B) Teachers   C) Society   D) Education

66. The concept of positive psychology was put forward by:
    A) Jerome S. Bruner   B) Eric Berne
    C) Martin Seligman   D) Aaron T. Beck

67. "You can tell the condition of the nation by looking at the status of the women." Who made this statement?
    A) Jawaharlal Nehru   B) Gandhiji
    C) Swami Vivekanda   D) Rabindranath Tagore

68. Utility and change are the basic principles of----------.
    A) Realism   B) Naturalism   C) Pragmatism   D) Idealism

69. To safeguard public property and to abjure violence is a fundamental duty which contained in article ------- of Indian constitution.
    A) 51 A   B) 48   C) 13   D) 30 A

70. Triarchic theory of intelligence was put forward by:
    A) Charles Spearman   B) E.L.Thorndike
    C) Howard Gardner   D) Robert Sternberg

71. Which among the following is an advantage of heuristic method?
    A) Takes a lot of time to plan and execute
    B) Opportunity to discover
    C) It follows passive learning
    D) Teacher dominated classroom

72. A primary school child frequently makes mistakes in writing numbers. He is showing the symptoms of:
   A) Dyspraxia   B) Dyscalculia   C) Dysgraphia   D) Dyslexia

73. The psychological forgetting is also known as:
   A) Withdrawal   B) Inhibition   C) Repression   D) Suppression

74. "Education should create a class of persons, Indian in blood and colour, but English in taste, in opinions, in morals, and in intellect". Which among the following recommended this?
   A) Downward filtration theory
   B) Magna carta of Indian education,
   C) University Education
   D) National Policy on Education

75. The most appropriate strategy to evaluate the teacher performance:
   A) Student evaluation   B) Peer evaluation
   C) Self evaluation   D) Principal evaluation

76. NIEPA stands for:
   A) National and International Education Planning and Administration
   B) New Institute for Education Planning and Administration
   C) National Innovative Education for Planning and Administration
   D) National Institute of Educational Planning and Administration

77. Inclusive Education is important as it:
   A) Celebrates diversity in the classroom
   B) Encourages strict discipline
   C) Includes homogeneity in classroom
   D) Includes teachers from marginalized groups.

78. A self contained instructional material is known as:
   A) Programme   B) Frame   C) Capsule   D) Module

79. Which of the following method is suitable for finding the status of a society?
   A) Survey   B) Case Study
   C) Experiment   D) Observation

80. What describes the phenomenon of the entire world becoming more interconnected as the result of the propagation of media technologies throughout the world?
   A) World wide web   B) Global village
   C) Internet   D) Globalisation

81. The weakest link in any computer security system is:
   A) Communication system   B) Hardware
   C) Programmes   D) People

82. Which of the following is an Antivirus Software?
   A) Photoshop   B) Norton   C) Yahoo   D) Flash

83. Which of the following is the most essential characteristic of a researcher?
   A) Open mindedness
   B) Systematic thinking
   C) Emotional Control
   D) Sympathy

84. The best way of protecting data from loss:
   A) Delete all your old files
   B) Lock your computer
   C) Change your password
   D) Make regular backups of the data

85. Which of the following provides interactive education using DVB- RCS technology?
   A) Gyan Darsan1
   B) Gyan Darsan 2
   C) Victers
   D) Doordarshan

86. The operating system is the most common type of ----- software.
   A) Communication
   B) Application
   C) System
   D) Word-processing software

87. Which of the following is an essential step of Institutional Planning?
   A) Analysis
   B) Supervision
   C) Inspection
   D) Encouragement

88. Which one of the following tools can appropriately assess the degree of performance of respondents?
   A) Check list
   B) Interview
   C) Rating scale
   D) Observation

89. Which among the following is the best measure of variability?
   A) Mean Deviation
   B) Quartile Deviation
   C) Range
   D) Standard Deviation

90. PLATO in teaching-learning context is
   A) Programmed Learning for Automated Teaching Operation
   B) Programmed Logic for Automated Teaching Operation
   C) Programmed Learning for Augmented Teaching Outcome
   D) Programmed Logic for Automated Teaching Outcome

91. Which among the following is the basis of Gandhian Philosophy?
   A) Idealism
   B) Naturalism
   C) Pragmatism
   D) Blending of all the above

92. Kerala State Higher Education Council is

   A) to render advice to the Government, Universities and other institutions of higher education in the State;
   B) to coordinate the roles of the Government, Universities and apex regulatory agencies in higher education within the State;
   C) to provide common facilities in higher education without impinging upon the autonomy of other institutions of higher education.
   D) All of the above

93. Match the following

List I | List II
a. John Dewey | 1.. Education is a natural process
b. Froebel | 2.. Education is preparation for life
c. Montessori | 3. Education is a process of reconstruction
d. Rousseau | 4. Principle of repetition of past life

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

94. Who among the following is a behaviourist?
A) Jean Piaget   B) Robert M Gagne
C) Edwin Guthrie   D) Lev Vygotsky

95. Which of the following is not a Learning Management System?
A) MOODLE   B) Google Classroom
C) Blackboard Learn   D) Socrative

96. Web 3.0 is known as:
A) Symbolic web   B) Read-write web
C) Read -write -execute web   D) Mobile web

97. Reliability coefficient of a test using split half method is:

A) $\dfrac{\left(2r_{\frac{1}{2}}\right)}{\left(2+r_{\frac{1}{2}}\right)}$
    B) $\dfrac{\left(r_{\frac{1}{2}}\right)}{\left(2+r_{\frac{1}{2}}\right)}$
    C) $\dfrac{\left(2r_{\frac{1}{2}}\right)}{\left(1+r_{\frac{1}{2}}\right)}$
    D) $\dfrac{\left(r_{\frac{1}{2}}\right)}{\left(1+r_{\frac{1}{2}}\right)}$

98. When the answer of a test item is analysed, it was found that 32 students out of 40 in the upper group and 14 students out of 40 from the lower group answered correctly. Then the discriminating power of the item is
A) 0.80   B) 0.35   C) 0.45   D) 0.575

99. The order of learning cycle used in lesson plans
A) Engagement, Explanation, Exploration, Elaboration, Evaluation
B) Engagement, Elaboration, Explanation, Exploration, Evaluation
C) Engagement, Exploration, Explanation, Elaboration, Evaluation
D) Engagement, Explanation, Elaboration, Exploration, Evaluation

100. CIPP approach is:
A) Content, Input, Process, Product
B) Context, Input, Past experiences, Process
C) Context, Input, Process, Product
D) Content, Induction, Past experiences, Product

101. The two categories of illustrations used in teaching are
A) Verbal and abstract   B) Concrete and abstract
C) Verbal and concrete   D) non-Verbal and concrete

102. Section 354A provides for
    A) Sexual harassment and punishment for sexual harassment
    B) Assault or use of criminal force to woman with intent to disrobe
    C) Voyeurism
    D) Stalking

103. Plans, means and specific ways specially devised and employed by teachers for the acquisition of learning objectives in teaching learning situation is called:
    A) Teaching method   B) Teaching strategy
    C) Teaching technique   D) Teaching tactics

104. The major objective of CLASS project (1984-85) was
    A) To expose children to utility and applications of computer
    B) To implement the recommendations of NPE
    C) To monitor the functions Central Institute of Indian Languages
    D) To provide access to quality education to primary school children

105. Which of the following is/are the objective/s of inclusive education?
    1. Protection of child right
    2. Identification of skill
    3. Education for All
    4. Discrimination of special children for better education

    A) 1, 3 and 4 only   B) 1, 2 and 3 only
    C) 1, 2 and 4 only   D) 1, 2, 3 and 4

106. Propagator of branched programming is
    A) B. F. Skinner   B) Norman A Crowder
    C) Arendset R.L   D) Smith W.J.

107. Calculate GPA from the following data in a 9 point scale.
    Subject   Grade   Credit
    Maths   A   3
    Chemistry B+   3
    English   B   3
    Physics   A   2
    Malayalam A+   3

    A) 3.524   B) 2.792   C) 5.482   D) 1.298

108. Teacher illustrates a concept to students. Here illustration can be considered as --------- of communication
    A) Source   B) Content   C) Channel   D) Facilitator

109. According to Buddha Third Noble Truth is
    A) Sorrow exists
    B) Sorrow can be eliminated
    C) There is a cause of sorrow
    D) There is a way of destroying sorrow

110. Spearman's Two Factor Theory is also known as
    A) Eclectic Theory
    B) Anarchic theory
    C) Monarchic theory
    D) Oligarchic theory

111. Kuder-Richardson Technique is used to establish ----- of a tool
    A) Objectivity
    B) Reliability
    C) Validity
    D) Utility

112. Which among the following is a test of goodness of fit?
    A) Wilcoxon Test
    B) Kolmogorov-Smirnov test
    C) Chi-square test
    D) Sign test

113. To which descriptive class, a child of 5 years with a mental age of 7.2 belongs?
    A) Genius
    B) Very superior
    C) Extra ordinary
    D) Superior

114. The process of finding out students' progress based on their earlier work
    A) Ipsative test
    B) Normative test
    C) Criterion Referenced Test
    D) Prognostic test

115. Grading process adopted by four teachers are given below. Choose the one which follows absolute grading.

    A) Students are given A grade for those who scored above 80 scores.
    B) Students are given A grade for those who have completed 4 out of 5 assigned works.
    C) Students are given A grade if they have participated in at least one co-curricular and one extra curricular activity along with 4/5 assigned works in scholastic area
    D) Students are given A grade when 80% of students in the class got lesser scores than those who received A grade

116. The most important task in teaching is
    A) Directing students in developing experiences
    B) Making students able to perform well in examinations
    C) Transact the curricular objectives without fail
    D) Make students able to perform well in classroom activities

117. Arrange the learning structures in the hierarchical order (Mangal335)
    1. signal-learning structure
    2. principle learning structure
    3. multiple discrimination learning structure
    4. chain -learning structure
    5. concept learning structure

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

118. Which of the following context can be developed as a result of regression?
    A) Approach-Approach conflict
    B) Approach-Avoidance conflict
    C) Avoidance -Avoidance conflict
    D) Multiple Approach-Avoidance conflict

119. "First bell" is known as
    A) Initiation of school hours
    B) School initiation program
    C) Initiative for online classes
    D) Website for school education

120. For achieving maximum effectiveness in teaching, a teacher needs to find out the learning difficulties of each student. Then the teacher is expected to conduct ------- test

    A) Achievement   B) Prognostic
    C) Ipsative   D) Diagnostic