

PART-A

SECTION-IV: TEACHING-LEARNING AND THE SCHOOL

56. Which of the following functions of schools justifies the statement that a school should pioneer of social upliftment ?
- (1) Normal function of school
 - (2) Progressive function of school
 - (3) Conservative function of school
 - (4) Reactionary function of school
57. Which of the following statements can't be accepted?
- (1) Schools are necessarily affected by changes in society.
 - (2) School can be powerful agents of social change.
 - (3) Schools are potential agents of disintegration.
 - (4) Schools are social agencies of cultural transmission
58. Which of the following goes against the spirit of equality of educational opportunity?
- (1) Public schools
 - (2) Government aided schools
 - (3) Ashram schools
 - (4) Navodaya Vidyalayas
59. Which of the following sequence is an appropriate order of learning a language?
Listening; R—tReading ; S—tSpeaking ; W—tWriting.
- (1) LSWR
 - (2) SLWR
 - (3) SLRW
 - (4) LSRW
60. The school through its programmes helps student:
- (1) assimilate culture
 - (2) ignore other cultures
 - (3) protest culture
 - (4) make them cultured
61. The main aim of class room teaching should be :
- (1) to develop self confidence among learners.
 - (2) to train learners for some vocation.
 - (3) to prepare them for higher classes.
 - (4) to facilitate learning.
62. Right to Education Act 2009 has banned:
- (1) Corporal punishment
 - (2) Mental Harassment
 - (3) Both corporal punishment and Mental harassment
 - (4) Extra classes
63. Teaching environment in the school can be adversely affected if :
- (1) Corporal punishment is always given.
 - (2) Learner is motivated to write for wall magazine.
 - (3) Teacher is given freedom to use innovative methods.
 - (4) There are frequent PTA meetings.

64. In your view play/activities in schools is :
- (1) necessary for psycho-motor development
 - (2) a simple waste of time
 - (3) not required because of heavy academic schedule
 - (4) all the above
65. A good class room discipline implies:
- (1) total silence with attention to teacher
 - (2) students to remain active in learning activities
 - (3) students do not ask any question
 - (4) students to be busy in self study.
66. Effective learning depends on :
- (1) interest of the child
 - (2) difficulty level of the learning
 - (3) either (1) or (2)
 - (4) both (1) and (2)
67. A teacher would become more effective if :
- (1) students score high marks
 - (2) teacher uses good instructional aids
 - (3) she/he helps learners to achieve mastery in learning
 - (4) she/he helps students to ask questions
68. In order to elicit the response “year 269 Be” while concluding a lesson on ‘Ashoka’, the following questions would be the best?
- (1) When did Ashoka succeed the throne ?
 - (2) After whom did Ashoka succeed the throne?
 - (3) In which year did Ashoka’s coronation take place?
 - (4) Any of the above questions
69. The best way to handle a wrong response of a student would be :
- (1) to explain the subject matter in detail again
 - (2) to tell the student that your answer is wrong
 - (3) to ask another student to give the correct answer
 - (4) to explain and give another chance to give answer
70. For developing an objective type class room test, which one of the following types VI most suited?
- (1) multiple choice type
 - (2) true - false type
 - (3) select the correct reason
 - (4) fill in the blank
71. A teacher in the class should keep his/her speech:
- (1) intonated
 - (2) low volume
 - (3) high volume
 - (4) moderate volume
72. Developing ‘Scientific attitude’ among learners can be best accomplished through:
- (1) teaching of sciences
 - (2) telling them to accept
 - (3) accepting what elders speak
 - (4) accepting facts only after examining and verifying

73. Which one of the following sequence to the process of the classroom teaching?
[D - Delivery; E - Evaluation; F - Feedback; K - Knowing the target learner; P - Plan]
(1) PKDFE (2) KPDFE (3) KPDEF (4) PKDEF
74. In order to avoid unnecessary psychological problems arising out of annual exam system we should use:
(1) periodical tests only
(2) periodical tests with corrective measures
(3) tests by teachers of other schools
(4) no testing at all
75. Mid - day Meal programme in Govt. schools meets which need of the child?
(1) Safety (2) Physiological
(3) Love/belongingness (4) Self actualization
76. While asking a probing question in a class which of the following can effect the re, adversely?
(1) clear intent (2) having no previous material to refer to
(3) use of double negatives (4) questions with one correct answer
77. A mentally challenged child:
(1) can't attain mastery in tasks at all
(2) can attain mastery with alternative suitable environment and method (3) can attain but would need more time
(4) can attain mastery like any other child
78. Aptitude tests are used to : (1)
measure achievement (2)
measure proficiency
(3) predict one's success in a profession (4)
measure potentiality
79. Awarding grades in place of numerical marks is recommended because:
(1) grades are easier to award
(2) teaching - learning will be facilitated (3) it will improve quality of education
(4) it will reduce errors in judgement
- (1) sender uses the same coding system as his/her receiver decodes (2)
sender proceeds slowly b~t systematically
(3) receiver is willing to receive
(4) being done in congenial environment

PART-B**SECTION- V (i): SCIENCE**

81. What happens, when zinc metal is dipped in copper sulphate solution?
- (1) the solution becomes colorless and reddish brown copper metal gets deposited
 - (2) no reaction takes place
 - (3) the solution becomes green and copper metal gets deposited
 - (4) the solution remains blue and copper metal gets deposited
82. In binary fission of a cell :
- (1) Cytoplasm and nucleus divide at the same time.
 - (2) The division of nucleus is followed by the division of cytoplasm.
 - (3) The division of cytoplasm is followed by the division of nucleus
 - (4) The cytoplasm and nucleus do not divide
83. When a cell is kept in a hypotonic solution then water moves:
- (1) into the cell
 - (2) out of the cell
 - (3) no movement of water takes place
 - (4) none of these is correct
84. The isomers of C_6H_{14} are:
- (1) 4
 - (2) 5
 - (3) 6
 - (4) 3
85. Which among the following diseases is not sexually transmitted?
- (1) Syphilis
 - (2) Hepatitis
 - (3) HIV - AIDS
 - (4) Gonorrhoea
86. A full length image of a distant tall building can definitely be seen by using:
- (1) a concave mirror
 - (2) a convex mirror
 - (3) a plane mirror
 - (4) both concave as well as plane mirror
87. The human eye forms the image of an object at its:
- (1) cornea
 - (2) iris
 - (3) pupil
 - (4) retina
88. Which one of the following is an artificial ecosystem?
- (1) Pond
 - (2) Crop field
 - (3) Lake
 - (4) Forest
89. Extensive plantation of trees to increase forest cover is known as :
- (1) Agro - forestry
 - (2) Social forestry
 - (3) Afforestation
 - (4) Deforestation
90. Which of the following is an exothermic process ?
- (1) Reaction of water with quicklime

- (2) Dilution of an acid
(3) Evaporation of water
(4) Sublimation of Camphor
91. Which among the following is not a base ?
(1) NaOH (2) KOH (3) NH_4OH (4) $\text{C}_2\text{H}_5\text{OH}$
92. Blood bank of the body is :
(1) spleen (2) heart (3) liver (4) bone marrow
93. Electrical resistivity of a given metallic wire depends upon:
(1) its length (2) its thickness
(3) its shape (4) nature of material
94. Growth of the plant or plant parts towards the earth is called:
(1) phototropism (2) hydrotropism (3) thigmotropism (4) geotropism
95. The unit of electric power may also be expressed as :
(1) Volt ampere (2) Kilowatt hour (3) Watt second
96. Biogas is a better fuel as it has:
(1) 75 % methane (2) higher calorific value
(3) residual manure (4) all of these
97. Which of the following is different from the other three?
(1) petroleum (2) coal (3) natural gas (4) geothermal
98. The centre for controlling body temperature is :
(1) Hypothalamus (2) Cerebellum (3) Central nervous system (4) Cerebrum
99. The ability of metals to be drawn into thin wire is known as :
(1) ductility (2) malleability (3) sonorosity (4) conductivity
100. Galvanisation is a method of protecting iron from rusting by coating with a thin layer of :
(1) Galium (2) Aluminium (3) Zinc (4) Silver

PART-B
SECTION-V (ii): MATHEMATICS

101. The value of $(a^{x-y})^{x+y}$, $(a^{y-z})^{y+z}$, $(a^{z-x})^{z+x}$ is :
- (1) 0 (2) 1 (3) -1 (4) $x + y + z$
102. The fifteenth part, the twelfth part and seventh part of a certain number when added together give 1353, the number is :
- (1) 6150 (2) 6420 (3) 6240 (4) 4620
103. The value of $\frac{(0.035)^2 - (.0045)^2}{.0395}$ is :
- (1) 0.0305 (2) 0.0395 (3) 0.0345 (4) 0.0345
104. An article which costs A ₹ 50 is sold to B at a profit of 20%; B sells it to C at a profit of 25%; C sells it to D at a profit of 40%. The price D paid for the article is :
- (1) ₹ 147 (2) ₹ 105 (3) ₹ 856 (4) ₹ 95
105. The number which must be subtracted from 11, 15, 21 each so that the middle num obtained is the mean proportional of the other two, is :
- (1) 6 (2) 5 (3) 4 (4) 3
106. A sum of money put at compound interest amounts in 2 years to ₹ 3380 and in 3 years ₹ 3515.20. The money invested is :
- (1) ₹ 3125 (2) ₹ 3215 (3) ₹ 3512 (4) ₹ 3152
107. A pen is sold at ₹ 60.00 cash or ₹ 20.00 cash down payment and ₹ 8 per month for six months. The rate of interest is :
- (1) 80% (2) 100% (3) 110% (4) 120%
108. In an examination 77% candidates passed in English and 66% passed in Mathematics and 13% failed in both subjects. If 392 passed in both subjects the total number of candidates is
- (1) 500% (2) 600% (3) 700% (4) 800%
109. A can do as much work in 2 days as B can do in 3 days, and B as much in 4 days as C in 5 days. If A, B and C together can do a piece of work in 5 days then A alone will do it in:
- (1) 15 days (2) 12 days (3) 11 days (4) 10 days
110. The value of $(1 + \cot\theta - \operatorname{cosec}\theta)(1 + \tan\theta + \sec\theta)$ is :
- (1) 1 (2) -1 (3) 2 (4) -2
111. The value of $\sec 70^\circ \sin 20^\circ + \cos 20^\circ \operatorname{cosec} 70^\circ$ is :
- (1) 1 (2) -1 (3) 2 (4) -2

112. The angles of elevation of the top of tower from two points a and b from the base and in the same straight line with it are complementary. The height of the tower is :
- (1) \sqrt{ab} (2) $\sqrt{a/b}$ (3) ab (4) a/b
113. The difference between the sides at right angles in a right angled triangle is 14 cm. The area of the triangle is 120 cm^2 . The perimeter of the triangle is :
- (1) 26 cm (2) 36 cm (3) 54 cm (4) 60 cm
114. The area of a square is the same as the area of a circle. Their perimeters are in the ratio:
- (a) 1 : 1 (b) 2 : π (b) $\pi : 2$ (b) $\sqrt{\pi} : 2$
115. The radii of two cylinders are in the ratio 2: 3 and their heights are in the ratio 5 : 3. The ratio of their volumes is :
- (1) 27 : 20 (2) 20 : 27 (3) 4 : 9 (4) 9 : 4
116. The circular ends of a bucket are of radii 35 cm and 14 cm and the height of the bucket is 40 cm. Its volume is :
- (1) 60060 cm^2 (2) 80080 cm^2 (3) 70040 cm^2 (4) 80160 cm^2
117. The height (in cm) of 15 students of a class are
141, 151, 146, 155, 148, 150, 158, 147, 159, 152, 153, 149, 150, 160, 161
The mean height is :
- (1) 152 (2) 153 (3) 152.5 (4) 151
118. A bag contains 3 white, 4 red and 5 black balls. One ball is drawn at random. The probability that the ball drawn is neither black nor white is :
- (1) $1/4$ (2) $1/2$ (3) $1/3$ (4) $2/3$
119. Two vertices of a $\triangle ABC$ are A(-1,4) and B(5, 2) and its centroid is G(O, - 3). The coordinates of C are:
- (1) (4, 3) (2) (4, 15) (3) (-4, -15) (4) (-15, -4)
120. The sum of all two digit odd positive integers is :
- (1) 2575 (2) 2574 (3) 2745 (4) 2457

PART-B**SECTION-V (iii): SOCIAL SCIENCE**

Choose the correct answer out of the four for each of the following question:

121. Who was the Viceroy of India when Rowlatt Act was passed?
(1) Hardings II (2) Chelmsford (3) Simon (4) Minto II
122. The Vindhyan System of Rocks is important for the production of :
(1) precious stones and building material
(2) iron ore and manganese
(3) bauxite and mica
(4) copper and uranium
123. Which of the following acts gave representation to Indians for the first time in the legislature?
(1) Indian Council Act 1909 (2) Indian Council Act 1919
(3) Govt. of India Act 1935 (4) Govt. of India Act 1942
124. Which document was developed mentioning Samudragupta's Achievements?
(1) Kalinga Edict (3) Indica
(2) Hathigumpha Edict (4) Allahabad Prasasti
125. Which of the following Articles of the Directive Principles of State Policy deals with the promotion of International Peace and Security ?
(1) Article 51 (2) Article 48 A (3) Article 43 A (4) Article 41
126. In which of the following matters does Lok Sabha has supremacy?
(1) Railway Budget (2) Defence Budget
(3) Foreign Affairs (4) Financial Bill
127. As per existing law what is the minimum per day wages paid to a worker from unorganised sector in India ?
(1) ₹ 50 (2) ₹ 75 (3) ₹ 100 (4) ₹ 125
128. Who is the first law officer of the Govt. of India?
(1) The Chief justice of India (3) Attorney General of India
(2) Union law minister (4) Law Secretary
129. Many a times we see in financial Journals/Bulletins a term M_3 what does the term M_3 mean?
(1) Currency in circulation on a particular day
(2) Total value of the foreign Exchange on a particular day
(3) Total value of Export Credit on a given date
(4) Total value of the tax collected in a year

130. Many a times we read in the newspapers that RBI has changed or revised a particular ratio/rate by a few base points. What is meant by base point?
- (1) Ten percent of one hundredth point (2) One hundred of 1 %
(3) One hundred of 10% (4) Ten percent of 1000
131. Nagarjuna sagar Dam is built across the river :
- (1) Cauvery (2) Krishna (3) Narmada (4) Godavari
132. Firoz Shah founded many cities which of the following was not built by him?
- (1) Jaunpur (2) Fatehpur Sikri (3) Hisar (4) Fatehabad
133. The Red Sea is an example of a:
- (1) folded structure (2) faulted structure
(3) lava structure (4) residual structure
134. Isochrones are lines joining places with equal:
- (1) longitude (2) travelling time from a point
(3) rainfall (4) frost
135. The pepper plant is a :
- (1) tree (2) vine (3) shrub (4) small herb
136. Which kind of power accounts for the largest share of power generation in India ?
- (1) Hydro Electricity (2) Thermal (3) Nuclear (4) Solar
137. An image of dancing girl on the coins was found from:
- (1) Kalibangan (2) Harappa (3) Mohenjodara (4) Ropar
138. The Italian traveller who gave a very praise worthy account of the Vijaynagar Empire was:
- (1) Barbosa (2) Marco Polo (3) Nicolo Conti (4) Tome Pires
139. Iqtas were:
- (1) hereditary assignments
(2) the personal property of the nobles
(3) generally transferable revenue assignments
(4) orders passed by kings and queens
140. The number of languages listed in 8th schedule of the constitution of India is :
- (1) 15 (2) 18 (3) 22 (4) 14

PART-B**SECTION-V (iv): ENGLISH**

Choose the most appropriate response out of the four choices given after every question. Each question carries one mark.

141. The phrase 'widow's walk' means:
- (1) railed walkway atop a seaside house (2) an unsteady gait
(3) wreath - laying ceremony (4) none of the above
142. The phrase 'deadman's hand' means:
- (1) a poker hand with two pairs
(2) an unseen force
(3) weakened leader
(4) none of the above
143. A doctor who specialises in the treatment of the heart is called:
- (1) neurologist (2) cardiologist
(3) ophthalmologist (4) orthopaedist
144. Choose the correctly spelt word:
- (1) Sykosis (2) Psykosis
145. Choose the correctly spelt word:
- (1) ellegory (2) allegory
146. The indirect form of the sentence:
Aftabh asked his wife, "Where is my book ?" is :
- (1) Aftabh asked his wife where is my book.
(2) Aftabh asked his ,,"vife where his book was.
(3) Aftabh asked his wife where his book is.
(4) Aftabh asked his wife where is his book.
147. The indirect form of the sentence :
Anita said, "I went to Australia last year" is :
- (1) Anita said that I went to Australia last year.
(2) Anita said that she went to Australia last year.
(3) Anita said that she had gone to Australia last year.
(4) Anita said that I had gone to Australia last year.
148. The passive voice of "Labourers are making the road." is :
- (1) The road is being made by labourers.
(2) The road is made by labourers.
(3) The road has been made by labourers.
(4) The road was being made by labourers.

149. The active voice of “Anil was fined by the police for not stopping at the red light”.
- (1) Anil fined the police for not stopping at the red light.
 - (2) Anil not stopping at the red light was fined by the police.
 - (3) The police fined Anil for not stopping at the red light.
 - (4) The police fined Anil not stopping at the red light.

In questions 150-152, choose the most appropriate words to fill in the blanks.

150. Charles..... go to Paris next month.
- (1) have
 - (2) will
 - (3) had
 - (4) has
151. My son has been living in Paris..... ten years.
- (1) since
 - (2) from
 - (3) for
 - (4) till
152. Friends often seek out Asha’sas she is known for her ability to listen carefully and offer unbiased advice.
- (1) concern
 - (2) trouble
 - (3) empathy
 - (4) counsel
153. In which of the following plays of Shakespeare Bertrice was the heroine?
- (1) Merchant of Venice
 - (2) Much ado about nothing
 - (3) Othello
 - (4) Midsummer Night’s Dream
154. Who wrote the poem ‘Ode to the West Wind’ ?
- (1) Keats
 - (2) Coleridge
 - (3) Wordsworth
155. Who wrote the novel ‘Return of the Native’ ?
- (1) George Eliot
 - (2) Thomas Hardy
 - (3) Emily Bronte
156. Who wrote the play ‘End Game’ ?
- (1) Samuel Beckett
 - (2) George Bernard Shaw
 - (3) Eugene O’ Neil
 - (4) Shakespeare
157. Who is the heroine in the novel ‘Return of the Native’ ?
- (1) Ursula
 - (2) Eustacia
 - (3) Catharine
 - (4) Tess
158. Which of the following is not a poet of the Victorian Age?
- (1) Browning
 - (2) Tennyson
 - (3) Shelley
 - (4) Arnold
159. In the sentence ‘I have read that book which is lying on the table’.
- Which is lying on the table is a :
- (1) Noun clause
 - (2) Adverb clause
 - (3) Adjective clause
 - (4) none of the above
160. In the sentence ‘Rashmi is the girl who has won the first prize’.
- Who has won the first prize is a :
- (1) Noun clause
 - (2) Adverb clause
 - (3) Adjective clause
 - (4) none of the above