SCHOLASTIC APTITUDE TEST- REVISION TEST - 1 (UNIT TESTS FROM 1 TO 11)
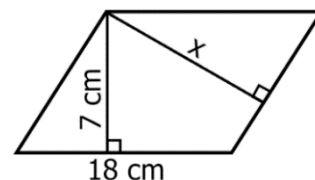
MATHEMATICS

91. If 'a' and 'b' are two integers, match the following.

    i) $a \times b = b \times a$ - a) Associative property
    ii) $a + (b + c) = (a + b) + c$ - b) Identity property
    iii) $a \times (b + c) = (a \times b) + (a \times c)$ - c) Commutative law
    iv) $a \times 1 = 1 \times a = a$ - d) Distributive law

    (1) i-d ii-a iii-c iv-b   (2) i-b ii-a iii-d iv-c   (3) i-c ii-a iii-d iv-b   (4) i-c ii-d iii-a iv-b

92. If the perimeter of the given parallelogram is 54 cm, find the value of x.

    (1) 24 cm   (2) 63 cm
    (3) 18 cm   (4) 14 cm
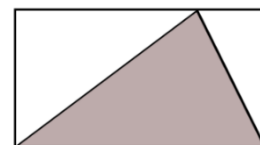

93. Find the false statement.

    (1) The diagonals of a square are equal in length.
    (2) The diagonals of a rectangle are equal in length.
    (3) The diagonals of a parallelogram are equal in length.
    (4) The diagonals of a rhombus are not equal in length.

94. If the area of a rhombus is 100 sq.cm, then the product of its diagonals is ___

    (1) 200   (2) 50   (3) 25   (4) 40

95. If the length and breadth of the rectangle in the figure are 10 m and 6 m respectively, what is the area of the shaded region?

    (1) 30 sq.m   (2) 60 sq.m
    (3) 45 sq.m   (4) Can't say

96. $-3, 6, -12, 24, -48$ What is the next number?

    (1) 54   (2) -64 (3) 96   (4) -72

97. If $y = -5$, then what is the value of $y^2 - 4(y - 3)$?

    (1) 85   (2) 7   (3) -7 (4) 57

98. Find the value of $\frac{0.001}{0.0001} + \frac{0.1011}{0.001}$

    (1) 11.11   (2) 111.1   (3) 1.111   (4) 10.111

99. If $7129 \times 18 = 128322$, Which of the following is incorrect?

    (1) $71.29 \times 0.18 = 12.8322$ (2) $712.9 \times 1.80 = 1283.22$
    (3) $0.7129 \times 1.8 = 1.28322$ (4) $712.90 \times 18 = 1283.22$

100. If $\left(\frac{x}{y}\right)^{n-1} = \left(\frac{y}{x}\right)^{n-3}$, the what is the value of 'n'?

    (1) $\frac{1}{2}$ (2) 1   (3) $\frac{7}{2}$ (4) 2

101. $\sqrt{5 + \sqrt{16}} =$?

    (1) 3   (2) 4   (3) 5   (4) 6

102. If the sum of a number and its reciprocal is $4\frac{1}{4}$, what is that number?

    (1) 3   (2) $\frac{1}{4}$ (3) $\frac{1}{8}$ (4) None of these

103. If $b = \frac{2a+1}{2a-1}$, for what value of a is b not a rational number?

    (1) 2   (2) 3   (3) $\frac{1}{3}$ (4) $\frac{1}{2}$
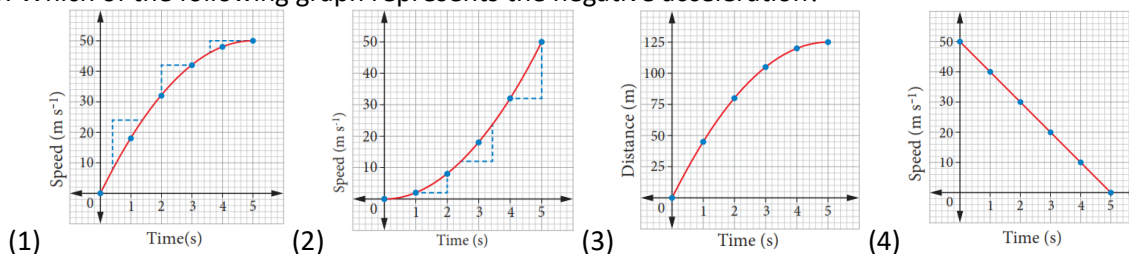
104. What is the rational number between 'x' and 'y'?

    (1) $\frac{x-y}{2}$ (2) $\frac{x+y}{2}$ (3) $\frac{x \times y}{2}$ (4) $\frac{x \div y}{2}$

105. If the base of a triangle is $14x^3y^2$ cm and its height is $8x^2y$ cm, then what is the area?
    (1) $56x^5y^3$ cm
    (2) $112x^5y^3\ cm^2$
    (3) $56x^5y^3\ cm^2$
    (4) $56x^5y^2\ cm^2$

106. Which of the following is not a polynomial expression?
    (1) $\frac{2}{x^{-2}} + \frac{5}{x^{-1}} + 3$
    (2) $\sqrt{3}x^2 + 5x + \sqrt{5}$
    (3) $7x^2 + 5\sqrt{3}x - 2$
    (4) $7x^2 + \sqrt{2x} + 5$

107. If the circumference of a circle is 10π cm, what is the length of its largest chord?
    (1) 10 cm
    (2) 5 cm
    (3) 7 cm
    (4) 4 cm

108. A floor is 10 m long and 8 m wide. A rug 6 m long and 5 m wide is spread on it. What is the area covered by the rug?
    (1) 80 sq.m
    (2) 30 sq.m
    (3) 50 sq.m
    (4) 40 sq.m

109. If $2^n + 2^n = 2^6$, what is the value of 'n'?
    (1) 3
    (2) 4
    (3) 5
    (4) 6

110. $(p + q)(q - p) =$?
    (1) $(p - q)^2$
    (2) $p^2 - q^2$
    (3) $(p + q)^2$
    (4) $q^2 - p^2$

SCIENCE

111. One Astronomical unit is _____.
    (1) 149.6 million km
    (2) 14960000 kilometre
    (3) 1 & 2
    (4) 2 Only

112. The box which is made up of Iron has a volume of $125cm^3$; its density is $7.8\ g/cm^3$. Find its mass.
    (1) 15 kg
    (2) 15 g
    (3) 975 kg
    (4) Q × T

113. Q = _____.
    (1) I × T
    (2) I / T
    (3) T / I
    (4) Q × T

114. A bus starts from rest and attains a speed of 100 m/s in 10 seconds. What is it's acceleration?
    (1) 1000 m/s²
    (2) 0.1 m/s²
    (3) 10 m/s²
    (4) 0.01 m/s²

115. Which of the following graph represents the negative acceleration?

    (1)   (2)   (3)   (4)

116. The unit of Viscous force in CGS system is _____.
    (1) poise
    (2) Nsm^{-2}
    (3) kgm^{-1}s^{-1}
    (4) All of these

117. If the weight of a crane standing on one leg is 40N, and area of it's foot is $0.01\ m^2$. Calculate the pressure it exerts on the ground.
    (1) 20 N / m²
    (2) 200 N / m²
    (3) 2000 N / m²
    (4) 200 N / m²

118. Select the correct statements.
    a. Kelvin scale is a SI unit system used to measure temperature
    b. Thermometer with Fahrenheit scale is caliberated from 32°F to 212°F
    c. The average temperature of the human body is 310.15 K
    d. Rankine scale is a absolute scale
    (1) a, c
    (2) b, d
    (3) a, d
    (4) All of these

119. The temperature of a place is 273°C, its equivalent value in Kelvin is _____.
    (1) 0° kelvin
    (2) 546° kelvin
    (3) 0 kelvin
    (4) 546 kelvin

120. The use of Inkscape software is _____.
    (1) Convert image drawn on paper into vector image
    (2) Convert image drawn on paper into raster image
    (3) 1 & 2
    (4) None of these

121. Generally, when an object is heated, its volume _____.
    (1) Increases
    (2) Decreases
    (3) Decreases then Increases
    (4) No change

2

122. The temperature of a metal ball is 30°C. When an energy of 3000J is supplied, its temperature is raised by 40°C. Calculate its heat capacity.
    (1) 300 J / K   (2) 300 J / S   (3) 30 J / K   (4) 30 J / S

123. Select the artificial sources of light from the following.
    (i) Candle, Neon lamp   (ii) Neon lamp, Sun
    (iii) Sodium vapour lamp, Burning stove   (iv) Fire flies, Sodium vapour lamp
    (1) (i), (iii)   (2) (i), (iii), (iv)   (3) (i), (ii), (iv)   (4) (ii), (iv)

124. Rainbow: Formed in the opposite side of light source :: Shadow : Formed in _____.
    (1) Same side of light source   (2) Left side of light source
    (3) Opposite side of light source   (4) Right side of light source

125. Refractive index of water is 4/3 and the refractive index of glass is 3/2. Find the refractive index of glass with respect to the refractive index of water.
    (1) 1   (2) 1.125   (3) 2   (4) 2.125

126. Match.
    (i) Soft metal   - a. Mercury   (ii) Metal in liquid state - b. Bromine
    (iii) A form of carbon   - c. Graphite   (iv) Non metal in liquit state - d. Sodium
    (1) i – a   ii – d   iii – c   iv - b   (2) i - c   ii – d   iii – a   iv - b
    (3) i - c   ii – a   iii – d   iv – b   (4) i - d   ii – a   iii – c   iv – b

127. Assertion : The most abundant atom in the universe is hydrogen.
    Reason : Approximately 74% of the atoms in the universe are hydrogen atoms.
    (1) Both Assertion and Reason are correct
    (2) Both Assertion and Reason are wrong
    (3) Both Assertion and Reason are correct, Reason explains assertion
    (4) Both Assertion and Reason are correct, Reason does not explains assertion

128. Match.
    (i) Sublimation   - a. Dissolution of sodium hydroxide in water
    (ii) Crystallization   - b. Dissolution of glucose in water
    (iii) Exo thermic change   - c. Heating of Ammonium chloride
    (iv) Endo thermic change   - d. Hot, concentrated solution
    (1) i – a   ii – d   iii – c   iv - b   (2) i - c   ii – d   iii – a   iv - b
    (3) i - c   ii – a   iii – d   iv – b   (4) i - d   ii – a   iii – c   iv – b

129. Which of the following is not an analgesic?
    (1) Aspirin   (2) Codein   (3) Diclofenac   (4) Cimetidine

130. Select the odd one out.
    (1) Ozone   (2) Sodium chloride   (3) Sulphur dioxide   (4) Sand

131. Shiny non - metal, conducts electricity _____.
    (1) Sulphur   (2) Diamond   (3) Graphite   (4) Chlorine

132. The head of a match stick contains _____.
    (1) Potassium chlorate   (2) Antimony tri sulphide   (3) Red phosphorous   (4) 1 & 2

133. Brass vessels lose their shining appearance due to _____.
    (1) Air pollution
    (2) Large amount of nitrogen in air
    (3) Copper present in Brass vessel reacts with air and forms copper carbonate
    (4) Silver present in Brass vessel reacts with air and forms silver sulphide.

134. Nitrogen is ued in thermometer, because _____
    (1) To measure the temperature correctly   (2) To reduce the evaporation of mercury
    (3) To prevent the uniform expansion of mercury   (4) To prevent melting of mercury

135. Which of the following is a wrong statement?
    (1) Nitrogen is used as a refrigerant
    (2) A limited amount of carbon dioxide is passed through lime water forms calcium carbonate
    (3) Carbon dioxide is mixed with charcoal and used to make explosives
    (4) Nitrogen is slightly soluble in water

136. Select the incorrect pair:
    (1) Sucker   - Chrysanthemum   (2) Runner   - Eichhornia
    (3) Phyllode   - Acacia auriculiformis (4) Corm   - Colocasia

137. In which of the following stilt roots are present?
    (1) Banyan   (2) Sugarcane   (3) Maize   (4) 2 & 3

138. Match.
    (i) Tridax   - a. Cross pollination   (ii) Strawberry   - b. Inflorescence
    (iii) Spirogyra   - c. Spore formation   (iv) Pteridophyte   - d. Fragmentation
    (1) i – b   ii – a   iii – c   iv - d   (2) i - d   ii – a   iii – b   iv – c
    (3) i - d   ii – b   iii – a   iv – c   (4) i - b   ii – a   iii – d   iv – c

139. Which organelle causes spindle fibres to proliferate during cell division?
    (1) Nucleus   (2) Ribosome   (3) Centriole   (4) Mitochondria

140. Give Analogy. Plant cell : Chloroplast :: Animal cell : ?
    (1) Centriole   (2) Ribosome   (3) Golgibodies   (4) Animals

141. In which of the following mitochondria, golgi complex and endoplasmic reticulum are not present?
    (1) Fungi   (2) Protozoa   (3) Alga   (4) Bacteria

142. Match.
    (i) Methanogens   - a. E. Coli
    (ii) Vitamin K   - b. Linen fibres
    (iii) Pseudomonas aeruginosa   - c. Nitrogen fixation
    (iv) Cyanobacteria   - d. Production of bio-gas
    (1) i – b   ii – d   iii – a   iv - c   (2) i - d   ii – a   iii – b   iv – c
    (3) i - d   ii – b   iii – a   iv – c   (4) i - b   ii – c   iii – d   iv – a

143. Which of the following is a wrong statement?
    (1) The reserve food materials of fungi are glucogen and oil.
    (2) Agar agar is used as growth medium in laboratories.
    (3) Bryophytes have distinct alternation of generation.
    (4) In Pteridophytes gametophyte is the dominant phase.

144. Binomial nomenclature was implemented by _____.
    (1) Linnaeus   (2) Bentham and Hooker
    (3) Augustin pyramus de candole   (4) Gaspard Bauhin

145. The by products of anaerobic respiration are _____.
    (1) Ethanol, Oxygen   (2) Carbon dioxide, water
    (3) Ethanol or lactic acid and Carbon dioxide (4) Lactic acid, Nitrogen

SOCIAL SCIENCE

146. Who was the portuguese traveller visited Vijayanagar in 1522 AD?
    (1) Domingo Paes   (2) bn Battuta   (3) Megasthenes   (4) Nicolo Conti

147. The person who declared himself as the first Sultan of Delhi is _____.
    (1) Babar   (2) Ala-Ud-din khalji   (3) Firoz shah Tughlu   (4) Qutb-ud-din-Aibak

148. Choose incorrect pair.
    (1) Sun Temple - Konark   (2) Dilwara Temple – Mount Abu
    (3) Khandarya Temple – Uttar pradesh (4) Khajuraho - Bundelkhand -

149. Who was called as the donar of the Velvikudi Plates?
    (1) Sundarapandyan   (2) Jatila Pantaka Neunjadayan
    (3) Veerapandyan   (4) Raja Raja cholan

150. Match it.
    (i) Mamluk Dynasty   - a. Firoz Shah
    (ii) Khalji Dynasty   - b. Ibrahim
    (iii) Tughlug Dynasty - c. Ala-Ud-Din
    (iv) Lodi Dynasty   - d. Balban
    (1) i – d   ii – c   iii – a   iv - b   (2) i - c   ii – d   iii – a   iv - b
    (3) i - b   ii – a   iii – d   iv – c   (4) i - b   ii – a   iii – c   iv – d

4

151. Choose incorrect pair
    (1) Quid-Ud-din-Aibak   - Ala-ud-din   (2) Iltumish   – Rukn-ud-din-Firoz
    (3) Balban   - Kaiqubad   (4) Bahlol Lodi   - Sikandar Lodi

152. Match it.
    (i) Thanjavur Big Temple   - a. Ratha
    (ii) Gangaikonda Cholapuram   - b. 7 meter
    (iii) Dharasuram   - c. 55 meter
    (iv) Ramanathaswamy Temple Outer corridor   - d. 216 feet
    (1) i – d   ii – a   iii – c   iv - b   (2) i - d   ii – c   iii – a   iv - b
    (3) i - b   ii – a   iii – d   iv – c   (4) i - b   ii – a   iii – c   iv – d

153. Choose correct pair
    1. Later Chola – Dharasuram   2. Kanchipuram - Jalagandeshwar temple
    3. Madurai – Adinatha temple   4. Tirunelveli – Varatharaja perumal temple
    (1) 3, 4 only   (2) 2 only   (3) 1 only   (4) 2, 4 only

154. The first Indian woman who won the Booker prize _____.
    (1) Sushma swaraj   (2) Arundhati Roy   (3) Kiran Bedi   (4) Vijaya Lakshmi pandit

155. Match it.
    (i) St. George Fort   - a. Pulicat   (ii) St.Francis Church   - b. Calcutta
    (iii) St. William Fort   - c. Chennai   (iv) Geldria Fort   - d. Cochin
    (1) i – c   ii – d   iii – b   iv - a   (2) i - c   ii – d   iii – a   iv - b
    (3) i - b   ii – a   iii – d   iv – c   (4) i - b   ii – a   iii – c   iv – d

156. Analyse the following statements
    Statement 1 : The three Carnatic Wars were fought between the French and the Dutch.
    Statement 2 : The Carnatic Wars undermined the France.
    (1) Statement 1 is true Statement 2 is wrong   (2) Statement 1 and Statement 2 are wrong
    (3) Statement 1 is wrong Statement 2 is true   (4) Statement 1 and Statement 2 are true

157. The year when the Indian Civil Service Act was passed _____.
    (1) 1862   (2) 1861   (3) 1859   (4) 1857

158. Which Revolt was led by Keshab Chandra Roy?
    (1) Pabna Revolt   (2) Moplah Rebellion   (3) Deccan Revolt   (4) Indigo Revolt

159. Analyse the following statements
    Statement 1 : The army was the third important pillar of the British administration in India..
    Statement 2 : The East India Company started recruiting its own army which came to be known as th
         sepoy army.
    (1) Statement 1 and Statement 2 are true   (2) Statement 1 is true Statement 2 is wrong
    (3) Statement 1 is wrong Statement 2 is true   (4) Statement 1 and Statement 2 are wrong

160. Arrange the following and choose the correct answer.
    (a) Treaty of Carnatic   (b) Victoria proclamation
    (c) Vellore Revolt   (d) Proclamation of Independence
    (1) a, b, c, d   (2) a, d, c, b   (3) a, c, d, b   (4) a, b, c, d

161. Match it.
    (i) Atheism   - a. Sikandra   (ii) Saeulum   - b. a lack of belief in God
    (iii) Tomb of Akbar   - c. Secular country   (iv) India   - d. An age
    (1) i – d   ii – a   iii – c   iv - b   (2) i - c   ii – d   iii – a   iv - b
    (3) i - c   ii – a   iii – b   iv – d   (4) i - b   ii – d   iii – a   iv – c

162. Choose the correct pair
    (1) Hondu - Dome   (2) Jain - Spire   (3) Buddhist - Stupa   (4) Muslim – Cupola

163. Which of the following statement is false?
    (1) The spherical earth is found to be three concentric layers.
    (2) The core is also dividedninto two pair
    (3) The core is called baryspehre.
    (4) The crust of the outermost layer thickness varies from 10 to 30 km

164. Assertion : Earthquakes may cause changes in the earth's surface.
Reason : A sudden movement of a portion of the earth's crust which produces a shaking or trembling is known as an earthquake.
(1) Both Assertion and Reason are correct
(2) Assertion is correct Reason is wrong
(3) Assertion is wrong Reason is correct
(4) both Assertion and Reason are wrong

165. Match it.
(i) Asia Minor   - a. Chilika lake
(ii) Kayal   - b. Germany
(iii) Odisha   - c. Lagoons
(iv) Cirque   - d. Turkey
(1) i – d   ii – c   iii – a   iv - b
(2) i - d   ii – a   iii – c   iv - b
(3) i - b   ii – d   iii – a   iv – c
(4) i - b   ii – a   iii – c   iv – d

166. In which country were the oldest sedimentary rocks of the world had been identified?
(1) Italy   (2) India   (3) Greenland   (4) Japan

167. Which of the following is a wrong statement?
(1) Igneous rocks are hard in nature
(2) Igneous rocks are not used for construction work
(3) Igneous rocks are impermeable
(4) Igneous rocks are of two types

168. Alluvial sand is _____.
(1) Dessert soil   (2) Mountain soil   (3) Laterite soil   (4) Black soil

169. The Tamil translation of "kilimo" is _____.
(1) Climate   (2) Straight angle   (3) Weather   (4) Inclination

170. _____ is the tiny droplets of water hanging in the air.
(1) Mist   (2) Fog   (3) Frost   (4) Dew

171. In 2050, what percentage of the worlld's population is projected to be urban?
(1) 68   (2) 60   (3) 80   (4) 75

172. The world day for Cultural diversity is _____.
(1) May 23   (2) June 12   (3) December 10   (4) May 21

173. Whiich countries follow the Rule of Law is in force?
(1) China, North Korea
(2) North Korea, England
(3) China, India
(4) India, England

174. What is the minimum percentage of votes a party must get in an assembly election to be recognized as a state party?
(1) 3%   (2) 6%   (3) 5%   (4) 4%

175. Wealth which is used for the further production of wealth refers to _____.
(1) Capital   (2) Work   (3) Land   (4) Production

176. According to the constitution, the number of members in the legislative Assembly of a state should not exceed _____..
(1) 234   (2) 250   (3) 500   (4) 545

177. Choose the wrong pair
(1) Legislative Assembly – Lower House
(2) Legislative Council – Upper House
(3) The Governor – Head of the state
(4) The chief minister – Leader of the opposition party

178. Analyse the following statements
Statement 1 : A person can change his nationality.
Statement 2 : A person cannot change his citizenship.
(1) Statement 1 and Statement 2 are true
(2) Statement 1 is true Statement 2 is wrong
(3) Statement 1 is wrong Statement 2 is true
(4) Statement 1 and Statement 2 are wrong

179. _____ refres to the prices are rising, the value of money will fall.
(1) Inflation   (2) Defilation   (3) Plastic money   (4) Black money

180. Choose the correct statements.
(i) Money is what money does - Waker
(ii) Money is notadifficult concept to define - Scitovsky
(iii) The Indian Rupee symbol designed by Mr. Udayakumar, Tamilnadu.
(1) (i) and (ii)   (2) (i) and (iii)   (3) (ii) only   (4) all of these

6