NTSE-2017

PART-3

SCHOLASTIC APTITUDE TEST

(MATHS)

101. $U = \{x \, / \, x \in N \, , \, x < 5\}, A = \{x \, / \, x \in N \, , \, x \le 2\}$ THEN a' = _____

    (A) {1,2}   (b) {1,2,3,4,5}   (C) {3,4}   (D) {3,4,5}

102. 0.235 is a _____ number

    (a) Natural   (B) Integer   (C) Rational   (D) Irrational

103. Which one is the constant term of $4x^3 - 3x^2 + 2x -5$

    (a) 4   (b) -5   (c) 2   (c) 2   (d) -3

104. Point (4,0) lies on _____

    (A) XO (b) YO (c) OX (D) OY

105. Line y = 4 is __

    (a) Parallel is Y-Axis   (b) Parallel to X –Axis

    (c) Intersecting both axes   (c) Passes throw origin

106. _____was the most logical and abstract creator of Euclid's geometry approach.

    (a) Hilbert   (B) Bhaskaracharya   (C) Thelus   (D) Pythagoras

107. If P-Q-R, Then _____is the opposite ray of QR

    (a) PQ (b) QP (C) RQ (D) PR

108. An angle is the union set of

    (a) Lines   (B) Line segments   (c) Rays   (d) A line segment and a ray

109. The sum of all six exterior angles of a triangle is_

    (a) 180   (b) 360   (c) 720   (d) 90

110. If diagonals of a quadrilateral are not conjugate and bisect at right angle, then such quadrilateral is known as__

(a) Square   (b) rectangle   (c) trapezium   (d) rhombus

111. ABCD is a rhombus. If ABCD = 160 and AC = 16 then BD =_____

(a) 10   (b) 20   (c) 15   (d) 25

112. The length of minor arc AB of   (P, 7) is 14. Find the length of major arc AB

(a) 18   (b) 21   (c) 28   (d) 30

113. The length of the edge of equilateral triangle is 8cm. Then semi circumference of such triangle is _cm.

(a) 4   (b) 24   (c) 12   (d) 36

114. The formula of lateral surface area of cylinder is

(a) $A = 2\pi rh$ (b) $A = 2\pi r$ (c) $A = \pi r^2$ (d) $A = 2\pi r^2 h$

115. Upper limit of class '41-50' is

(a) 41   (b) 50   (c) 45   (d) 91

116. G.C.D of 4 and 19 is

(a) 1   (b) 4   (c) 19   (d) 76

117. The polynomial having 3 degree is known as

(a) Linear   (b) Quadratic   (c) Polynomial   (d) Trinomial (cubic)

118. If $\dfrac{x+y}{xy} = 2$ and $\dfrac{x-y}{xy} = 6$ then y =_____

(a) 1/4   (b) -1/2   (c) -1/4   (d) 1/3

119. Find the product of zeros of the quadratic polynomial: $x^2 - 4x + 3$

(a) 1   (b) 3   (c) 4   (d) -4

120. In ΔABC, ∠B is right angle. If a =16 and c =12 then b = _____

(a) 8   (b) 18   (c) 20   (d) 28

SCIENCE AND TECHNOLOGY

121. For which of the following physical quantities, it is necessary to indicate direction along with its magnitude?

(a) Speed   (b) Path length   (c) Displacement   (d) Temperature

122. Which Newton's law of motion gives magnitude of force?

(a) First   (b) Second   (c) Third   (d) None of these

123. Which of the following physical quantity is scalar quantity?

(a) Mass   (b) Force   (c) Impulse of force   (d) Momentum

124. Give the SI unit of Density?

(a) Kg   (b) m2   (c) kg/m^2 (d) kg/m

125. What is the full form of PNG?

(a) Petrol Natural Gas (b) Pressurize Natural Gas (c) Pipe Natural Gas (d)

Pure Natural Gas

126. Which of the following is a monatomic molecular?

(a) Nitrogen   (b) Hydrogen   (c) Helium   (d) Oxygen

127. Which Newton's law of motion defines force?

(a) First   (b) Second   (c) Third   (d) None

128. Density of water is_____

(a) $1000kg/m^3$ (c) $1kg/m^3$ (c) $1000g/cm^2$ (d) $100kg/m^3$

129. What is the approximate diameter of human hair?

(a) 500nm   (b) 5000nm   (c) 50nm   (d) 50000nm

130. What is the orbital period of Halley 's Comet?

(a) 66years   (b) 76years   (c) 86years   (d) 96years

131. Where is the image of an object formed in human eye?

(a) Iris   (b) Pupil   (c) Retina   (d) Cornea

132. What is the unit of electric potential difference?

(a) Volt   (b) coulomb   (c) Joule   (d) Watt

133. In which state of a substance, it has the shape?

(a) Liquid   (b) Liquid and Gas   (c) Gas   (d) Solid

134. Which of the following is correct for X-rays?

(a) It is beam of electrons   (b) It is electromagnetic waves

(c) It is positively charged particle   (d) It is negatively charge particle

135. State the atomic mass of H_2O?

(a) 16 U   (b) 17 U   (d) 18 U   (d) 15 U

136. Who was the scientist to make attempts for giving explanatory definition of element?

(a) Rontgen   (b) Dalton   (c) Rutherford   (d) Laveziour

137. Which bond is present in oxygen atom?

(a) Ionic bond   (b) covalent divalent bond

(c) Covalent bond   (d) covalent trivalent bond

138. 1 kWh = _____

(a) 3.6×10^6 (b) 36×10^6 (c) 3.6×10^7 (d) 3.6×10^5

139. Who discovered γ-rays?

(a) Rutherford   (b) Thomson   (c) Willard   (d) Dalton

140. Which radiation was discovered by Rutherford?

(a) α & β   (b) $\beta \& \gamma$ (c) $\alpha \& \gamma$ (d) $\alpha, \beta \& \gamma$

141. Which chemical is formed when non metallic oxides react with water?

(a) Metal   (b) Base   (c) Minerals   (d) Acid

142. What is the molecular formula of silver glance?

(a) Ag_2S (b) AgCl   (c) $CaCO_3$ (d) Al_2O_3

143. How many elements are there in non metal?

(a) 14   (B) 18   (c) 88   (D) 114

144. What percentage of carbon in Bituminous Coal?

(a) 28-30%   (b) 28%   (c) 78-86%   (d) 94-98%

145. Which is the largest cell in human body?

(a) Liver cell   (b) Nerve cell   (c) Muscle cell   (d) Kidney cell

146. Who has given the word 'Cell'?

(a) Robert Hook   (c) Robert Brown   (c) Watson and Crick   (d) Flamming

147. Which is the living component of xylem?

(a) Tracheid   (b) Xylem fibre   (c) Xylem parenchyma   (d) Trachea

148. Living mechanical tissue is_____

(a) Parenchyma   (b) Collenchyma   (c) Sclerenchyma   (d) Chlorenchyma

149. Which of the tissue has deposition of Pectin?

(a) Collenchyma   (b) Sclerenchyma   (c) Phloem   (d) Xylem

150. Where is the place of Ciliated epithelium Tissue?

(a) Ureter   (b) Liverduct   (C) Fallopian tube   (d) Bileduct

151. Bone is_____

(a) Epithelium tissue   (b) connective tissue   (c) Muscular tissue   (d) Nervous tissue

152. Which one of the infections disease?

(A) T.B   (b) Goiter   (c) Diabetes   (d) Hypertension

153. Which one is belongs to 'Retro virus group'?

(a) Dengue Virus   (b) Hepatitis virus   (c) Influenza virus   (d) HIV

154. Who is responsible for malaria?

(a) Bacteria   (b) Virus   (c) Plasmodium   (d) Worm

155. Where is the Gaseous exchange takes place during respiration is human being?

(a) Bronchi   (b) Pharynx   (c) Larophaynx   (d) Trachea

156. How many chambers are present in human heart?

(a) 2   (b) 3   (c)4   (d) 6

157. The spinal cord originates from where?

(a) Cerebrum   (b) Cerebllum   (c) Medulla oblongata (d) Pones

158. In which of the following living organisms spore information take place?

(a) Mucor   (b) Planaria   (c) spirogyra   (d) Potato

159. The countinuity of features from one generation to another is known as____

(a) Evolution   (b) Mutation   (c) Generation   (d) Heredity

160. Which specie of Italian honey bee is useful for honey production?

(a) Epis serena indica   (b) Epis flora   (c) Epis corseta   (d) Epis meliphera

SOCIAL SCIENCE

161. Who discovered "Cape of Good Hope" island?

    (a) Columbus   (b) Bartholomew Diaz   (c) Vasco – de- Gama   (d) Amerigovesupuchi

162. When did Britishers establish the Head Quarter in Bombay?

    (a) 1613   (b) 1608   (c) 1680   (d) 1667

163. When did the First World War start?

    (a) 1_{st} August,1914   (b) 8_{th} August 1914   (c) 14_{th} Aug.,1914 (d) 20_{th} Aug.,1914

164. Who established 'Fascism' in Italy?

    (a) Hitlor   (b) Mussolini   (c) Lanin   (d) Nepolian

165. In which country was national flag hoisted prepared by madam Cama?

    (a) France   (b) Russia   (c) Germany   (d) Japan

166. Which festival was there is in Punjab when Jallianwala Bagh massacre occurred?

    (a) Baishakhi   (b) Diwali   (c) Holi   (d) Ramazan Id

167. Which one of the following not included in the state known as 'seven sisters'?

    (a) Assam   (b) Sikkim   (c) Manipur   (d) Tripura

168. Which day is celebrated as "Human Rights Day"?

    (a) 19 December (b) 12 December   (c) 15 December   (d) 10 December

169. Which kind of democracy governance system there in our country?

    (a) Presidential (b) Parliamentary (c) Independent   (d) Neutral

170. Where is India lies on in Asia continent?

    (a) South   (b) North   (c) East   (d) West

171. Which canal has reduced the distance between Europe and India?

    (a) Panama   (b) Alaska   (c) Suez   (d) Nile

172. By which name is the delta region of the Ganga and Brahmputra known as?

(a) Taheri   (b) Pamir   (c) Vrundavan   (d) Sundarvan

173. By which name is the some rainfall at Malabar coast known as?

(A) Amra Vrushti (b) Ana Vrushti   (c) Him Vrushti   (d) Cyclone

174. In which state are wild goats and musk(Kasturi) deer found?

(a) Andhra Pradesh   (b) Gujarat   (c) Jammu and Kashmir   (d) Assam

175. Which fair of Gujarat is famous for buy and sale of donkeys?

(a) Tarnetar   (B) Siddhapur   (c) Bhavnath   (d) Vautha

176. What does 'Tsunami' means in Japanese language/

(a) Upward tidal waves   (b) Destructive waves

(c) Spiral waves   (d) Downward tidal waves

177. In which sea "Lakshadweep" Island located?

(a) Bay of Bengal (b) Arabian Sea   (c) Indian Ocean   (d) Pacific ocean

178. After gaining independence which state was the first to join Indian Union?

(a) Morbi   (b) Junagadh   (c) Patiyala   (d) bhavanagar

179. Who established a political party "Forward Bloc"?

(a) subhashchandra Bose   (b) Khudiram bose

(c) Rashbihari bose   (d) Satyendranath bose

180. Which British system was like "sweet poison"?

(a) Revenue Policy   (b) Policy of annexation

(c) Subsidiary Alliance   (d) Permanent Deposit Policy

181. Who was the pioneer of armed revolution in Gujarat/

(a) Barindra Ghosh   (b) Mohanlal Panday   (c) chhotubhai Purani   (d) Aurbindo Ghose

182. When did the people of Germany broke down the "Berlin Wall"?

(a) 1990   (B) 1991   (c) 1989   (d) 1992

183. What type of government was established to join Indian union by the people of Junagadh?

(a) Responsible Govt.   (b) Independent Govt.

(c) Arzai Hakumat   (d) Federal Government.

184. In which district Rangpur, having archaeological importance in situated?

(a) Surendranagar   (b) Ahmedabad   (c) Rajkot   (d) Patan

185. Who were the direct decendent of Stone Age civilization and creator of Mohenjo-Daro's sindhu culture?

(a) Aryan   (b) Mongoloid   (c) Dravid   (d) Armenoid

186. The day of 21st June known as?

(a) Environment Day   (b) World yoga Day   (c) Mother Day   (d) World Peace Day

187. Which Veda is known as Gangotri of Music?

(a) Rigveda   (b) Atharveda   (c) Yajurveda   (d) Samveda

188. In which language did Abul Fazal write the Akabarnama?

(A) Farsi   (b) Arabi   (c) Urdu   (d) Pali

189. Which ancient university was situated at Badgaon village of Patna district of Bihar?

(a) Takshshila   (b) Vallabhi   (c) Nalanda   (d) Bikramshila

190. Name the Indian mathematician who discovere zero?

(a) Aryabhatta   (b) Bhaskarachary   (c) Brahmgupta   (d) Lilawati

191. Which book of maths had been written by Bhaskaracharya?

(a) Aryabhattiyam   (b) Lilavati Ganit   (c) Dash Gitika   (d) Arya Siddhant

192. Who built the Red fort of Delhi?

(a) Akbar   (b) Humayun   (c) shahjahan   (d) Jahangir

193. Which wild life is totally extinct from Gujarat forest area?

(a) Leopard   (b) Tiger   (c) Deer   (d) Lion

194. Which country is the highest exporter of in the world?

(a) China   (b) Pakistan   (c) America   (d) India

195. Which crop is known as "White Gold" in India?

(a) Cotton   (b) Millet   (c) Paddy   (d) White kidney beans

196. Where is the largest oil refinery of the world is located?

(a) Dubai   (b) Gauhati   (c) Jamnagar   (d) Kuwait

197. Which Indian city is well-known as "Silicon Valley" of India?

(a) Hyderabad   (b) Nagpur   (c) Mumbai   (d) Bengaluru

198. Which term is used for families living under the poverty line?

(a) APL   (b) BPL   (C) GPL   (D) CPL

199. Which economist of Indian origin propound the Human development index?

(a) Dr. Amartya Sen   (b) Dr. H.M Patel   (c) Dr. Manmohan Singh (d) Raghuram Rajan

200. Which poetry is not written by kalidas?

(a) Kumarsambhava   (b) Raghuvansh   (c) Dashkumarcharit   (d) Rutusamhar