## NTSE STAGE - I (2017-18) SET - D <br> HARYANA STATE SCHOLASTIC APTITUDE TEST (SAT)

101. A number when divided by 5,3 and 2 leaves remainders 4,2 and 1 respectively. Out of all three digit numbers find the total such numbers
102. 28
103. 29
104. 30
105. 31
106. If $\operatorname{cosec} \theta-\cot \theta=p$, then the value of $\frac{p^{2}-1}{p^{2}+1}$ is
107. $\cos \theta$
108. $-\cos \theta$
109. $\sin \theta$
110. $-\sin \theta$
111. If the sum of the first $m$ terms of an A.P. is $n$ and sum of its first $n$ terms is $m$, then the sum of its first $(m+n)$ terms is
112. $-(m+n)$
113. $m+n$
114. $-m+n$
115. $m-n$
116. If quadratic equation $x^{2}+p x+k=0$ has equal roots and -4 is a root of the quadratic equation $x^{2}+p x-4=0$, then the value of $k$ is
117. $\frac{3}{2}$
118. $\frac{-3}{2}$
119. $\frac{-9}{4}$
120. $\frac{9}{4}$
121. A peacock sitting on the top of a tree observes a serpent in the ground making an angle of depression $30^{\circ}$. If the peacock with a speed of 300 m per minute catches the serpent in 12 seconds then the height of the tree is:
1.30 m
122. $30 \sqrt{3} \mathrm{~m}$
123. $\frac{30}{\sqrt{3}} \mathrm{~m}$
124. 15 m
125. $a, b$ and $c$ are the side of a right angled triangle and a circle of radius $r$ touches the sides of the triangle. If $c$ is the hypotenuse of the triangle then the value of $r$ is
126. $\frac{a+b+c}{3}$
127. $\frac{a+b-c}{3}$
128. $\frac{a+b+c}{2}$
129. $\frac{a+b-c}{2}$
130. If one zero of the quadratic polynomial $6 x^{2}+15 x+6$ is reciprocal of the other, then the zeros of the polynomial is:
131. 2 and $\frac{1}{2}$
132. -2 and $\frac{-1}{2}$
133. 3 and $\frac{1}{3}$
134. -3 and $\frac{-1}{3}$
135. The mean of certain number of observations is 46 . If four observation whose mean is 52 are removed, the mean becomes 44.5. The original number of observation is
136. 35
137. 20
138. 15
139. 12
140. The area of a triangle with vertices $(p, 2-2 p),(1-p, 2 p)$ and $(-4-6,6-2 p)$ is 70 sq. units. Then, the number of possible integral values of $p$ is
141. 0
142. 1
143. 2
144. 3
145. In a triangle $A B C$, points $D$ and $E$ are on sides $A B$ and $A C$ respectively such that $B C E D$ is trapezium. If $A E: E C=3: 2$, then the ratio of area of $\triangle A D E$ and trapezium BCED is
146. $9: 16$
147. $9: 4$
148. $9: 25$
149. $16: 25$
150. The value of $\lambda$ satisfying of the relation $y=\lambda x+5$, where $x$ and $y$ are the solution of pair of equations $x+2 y=10$ and $3 x+4 y=360$ is
151. $\frac{1}{4}$
152. $\frac{-1}{4}$
153. $\frac{1}{2}$
154. $\frac{-1}{2}$
155. Three spheres of radii $6 \mathrm{~cm}, \mathrm{x}$ cam and y cm are melted to form a single sphere of radius 12 cm . If $x y$ is equal to 80 , then the value of $x+y$ is
156. 21
157. 18
158. 24
159. 42
160. If $\cos \theta+\sin \theta=p$ and $\sec \theta+\operatorname{cosec} \theta=V$, then the value of $V$ is:
161. $\frac{p^{2}}{2 p-1}$
162. $\frac{2 p-1}{p^{2}}$
163. $\frac{2 p}{p^{2}-1}$
164. $\frac{p^{2}-1}{2 p}$
165. Angles $A, B, C$ and $D$ of a cyclic quadrilateral $A B C D$ are in the ratio $3: 3: 2: 2$ respectively. If $A B=5 \mathrm{~cm}, B C=3.5 \mathrm{~cm}$ and $C D=8 \mathrm{~cm}$, then the length of $A D$ is
1.5 cm
166. 3.5 cm
167. 8 cm
168. 4 cm
169. The median of certain observations $17,18,23,27 x-3, x+5,45,49,74$ and 85 arranged in an ascending order is 35 . Later on, it was found that one observation 72 was misread as 27 by mistake. The correct median of the data is:
170. 36
171. 38
172. 42
4.47
173. The sides of triangle are $61 \mathrm{~cm}, 54 \mathrm{~cm}$ and 35 cm respectively. The length of its longest altitude is:
174. $10 \sqrt{5} \mathrm{~cm}$
175. $16 \sqrt{5} \mathrm{~cm}$
176. $24 \sqrt{5} \mathrm{~cm}$
177. $28 \sqrt{5} \mathrm{~cm}$
178. A bag contains two coins. One of them is a regular coin whereas the other has tails on both sides. From this bag, a coin is picked at random and tossed. Then, the probability of getting a head is:
179. 0
180. $\frac{1}{4}$
181. $\frac{1}{2}$
182. $\frac{3}{4}$
183. $a$ and $b$ are roots of a quadratic equation $x^{2}+5 x+d=0$, while a and $c$ are the roots of the quadratic equation $x^{2}+6 x+2 d=0$. If there is only one common root in the two equations, then value of $d$ is
184. -2
185. -4
186. 2
187. 4
188. The mean, mode and median of the observation $7,7,5,7$ and $x$ are the same. Then the observation x is:
189. 10
190. 9
191. 8
192. 7
193. $A B C$ is a right angled triangle, right angled at $B$. If $D$ and $E$ are points on side $A B$ such that
$A D=D E=E B$, then the value of $\frac{A C^{2}-E C^{2}}{D C^{2}-B C^{2}}$ is
194. $\frac{3}{1}$
195. $\frac{5}{2}$
196. $\frac{9}{4}$
197. $\frac{2}{1}$
198. Non co - operation movement was withdrawn due to:
199. Jalian Wala Bagh Masscare
200. Chauri -Chaura incident
201. Rowlatt Act Introduced
202. Nehru Report Rejection
203. The term 'Liberalism' is derived from the 'Latin' word 'Liber' meaning:
204. Democratic
205. Capitalist
206. Socialist
207. Free
208. The French Revolution occurred in which following year?
209. 1788
210. 1789
211. 1790
212. 1791
213. Who was the chief architect of the unification of Germany?
214. Chief Minister William - I
215. King William - II
216. Chief Minister Ottovon Bismarck
217. King Kaisar
218. Who among the following was described as the most dangerous enemy of social order by Duke Metternich?
219. Louis Philippe
220. Karol Kurpinski
221. Johan Gottfried
222. Guiseppe Mazzini
223. The elites in Vietnam were powerfully influenced by which following culture?
224. Indian
225. American
226. European
227. Chinese
228. Who was the founder of Hoa Hao movement?
229. Huynh Phu So
230. Phan Boi Chau
231. Phan Chu Trinch
232. The official of Imperial court
233. In January 1930 Gandhi ji wrote a letter stating (asking) 'Eleven Demands' to whom?
234. Lord Irwin
235. Lord Curzon
236. Lord Ripon
237. Lord Lytton
238. Who was the first President of Indian National Congress?
239. Dada Bhai Naroji
240. Surendranath Banerjee
241. W.C. Bonnerjee
242. Gopal Krishna Gokhale
243. What was the theme of the movie 'Green Berets'?
244. To Glorify War
245. To Glorify Peace
246. To Glorify Socialism
247. To Glorify Capitalism
248. Who is the writer of 'Vande Mataram' ?
249. Rabindranath Tagore
2.Subhash Chandra Bose
250. Raja Ravi Verma
4 Bankim Chandri Chatterjee (Chattopadhyay)
251. Trade Unions' first started in which of the following country?
252. England
253. America
254. France
255. Russia
256. Under which of the following type of resource can tidal energy be put?
257. Replenishable
258. Human made
259. Abiotic
260. Non - recyclable
261. In which of the following state is laterite soil found?
262. Jammu and Kashmir
263. Kerala
264. Uttarakhand
265. Jharkhand
266. Which of the following describes a system of agriculture where a single crop is grown on a large area?
267. Shifting Agriculture
268. Planation Agriculture
269. Horticulture
270. Intensive Agriculture
271. Which two of the following extreme locations are connected by the east west corridor?
272. Mumbai and Nagpur
273. Mumbai and Kolkata
274. Silcher and Porbabdar
275. Nagpur and Siliguri
276. Which of the following ports is the deepest land - locked and well protected port along the east - cost?
277. Chennai
278. Tuticorin
279. Paradip
280. Visakhapatnam
281. Which one of the following agencies market steel for the public sector plants?
282. HAIL
283. SAIL
284. TATA STEEL
285. MNCC
286. Which of the following mineral found in monazite sands?
287. Mineral oil
288. Uranium
289. Thorium
290. Coal

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140. Which one of the following statement is not true?
141. Mica can be clear, black, green, red, yellow or brown
142. Limestone is found associated with composed of calcium carbonates or calcium and magnesium carbonates.
143. Aluminium has good conductivity and great malleability
144. Generally minerals are not found in 'ore'
145. Match the following

| Column-I |  | Column-II |  |
| :--- | :--- | :--- | :--- |
| 1 | Salt water lake in India | (i) | Barren island |
| 2 | Active volcano in India | (ii) | Pitti island |
| 3 | Island which is uninhabited | (iii) | Majuli |
| 4 | A river island situated in river Brahmaputra | (iv) | Chilka |

1. I - iv, 2 - ii, 3 - i, 4 - iii
2. I - iv, 2 - i, 3 - ii, 4 - iii
3. I - iii, 2 - ii, 3 - iv, 4 - i
4. I - ii, 2 - i, 3 - iii, 4 - iv
5. Himalayas have been divided on the basis of regions from west to east. Which is known as:

| Column-I |  | Column-II |  |
| :--- | :--- | :--- | :--- |
| 1 | The part of Himalayas lying between Indus and Sutlaj | (i) | Kumaon Himalayas |
| 2 | The part of Himalayas lying between Sutluj and Kali | (ii) | Punjab Himalayas |
| 3 | The part lying between Tista and Dihang | (iii) | Nepal Himalayas |
| 4 | The part lying between Kali and Tista | (iv) | Assam Himalayas |

1. I - i, 2 - ii, 3 - iii, 4 - vi
2. I - iv, 2 - iii, 3 - ii, 4 - i
3. I-ii, 2 - i, 3 - iv, 4 - iii
4. I - iii, 2 - ii, $3-\mathrm{i}, 4$ - iv
5. Match List I (River) and List 2 (Dam) and select the correct answer using the code given below:

| List -I <br> (Rive) |  | List - II <br> (Dam) |  |
| :--- | :--- | :--- | :--- |
| 1 | Mahaadi | (i) | Nagarjun |
| 2 | Krishna | (ii) | Mettur |
| 3 | Sutluj | (iii) | Hirakud |
| 4 | Kaveri | (iv) | Bhakhra Nangal |

1. I - i, 2 - ii, 3 - iv, 4 - iii
2. I - ii, 2 - iii, 3 - iv, 4 - i
3. I - iv, 2 - ii, $3-\mathrm{i}, 4$ - iii
4. I - iii, 2 - i, 3 - iv, 4 - ii
5. Match the following animals with their category of existence and select the correct answer using the code given below

| Animal |  | Category of existence |  |
| :--- | :--- | :--- | :--- |
| 1 | Black Buck | (i) | Extinct |
| 2 | Asiatic Elephant | (ii) | Endangered |
| 3 | Andman wild pig | (iii) | Vulnerable |
| 4 | Pink Head Duck | (iv) | Endemic |

1. I - ii, 2 - iii, 3 - iv, 4 - i
2. I - i, 2 - ii, 3 - iii, 4 - iv
3. I - iv, 2 - iii, 3 - ii, 4 - i
4. I - iii, 2 - ii, 3 - i, 4 - iv
5. Which of the following book is written by Kautilya?
6. Politics
7. Civil Government
8. Arthashastra
9. The Prince
10. Which of the following state does not have coalition government?
11. Bihar
12. Jammu Kashmir
13. Goa
14. Orissa
15. Which of the following nation has parliamentary government but is not republic?
16. India
17. U.K.
18. China
19. Nepal
20. Personalities of which of the following group do not match in their positions?
21. Pt. Jawaharlal Nehru, V.P. Singh and Dr. S. Radhakrishnan
22. Dr. Rajendra Prasad, Dr. V.V. Giri and Dr. Fakhruddin Ali Ahmed
23. Lala Bahadur Shastri, Narsimha Rao and Manmohan Singh
24. Lala Lajpat Rai, Bal Gangadhar Tilak and Bipin Chandra Pal
25. Which article of Indian constitution abolishes untouchablity ?
26. Art 19
27. Art 17
28. Art 21
29. Art 23
30. Which of the following statements are correct?
I. India is secular
II. India has direct democracy
III. India has adopted the proportional representation
IV. India is founder member of UN
31. i, iv, iii
32. i, iv
33. i, ii, iv
34. i, ii, iii
35. Which article is related with uniform civil code?
36. Art. 44
37. Art. 45
38. Art. 14
39. Art. 370
40. Choose the odd group from the following:
41. Lal, Bal, Pal
42. Weather, Climate, Environment
43. Heart, Kidney, Dengue
44. BJP, Congress, RJD
45. I had booked a ticket in Rajdhani Superfast train. The train was delayed for long hours without any reason. In this situation:
46. I can not approach consumer court as train delays can happen sometime
47. I can file a complaint in railway office as claim refund of ticket amount
48. I can approach consumer court for deficiency in service and claim refund of superfast charges as damage.
49. I can cancel my ticket without paying cancellation charges to railways
50. Assume that national income of a country is Rs. $5,00,000$ crore in any accounting year and they have received foreign aid of Rs. 1,000 crore in the year. In this situation, national income of that country would:
51. Increase by Rs. 1,000 crore
52. Decrerase by Rs. 1,000 crore
53. Remain same
54. Increase by half of the foreign aid
55. After implementation of GST in the country, a shopkeeper has given a work of their bookkeeping/accounts, to my cousin. Such kind of activities can be included in:
(A) Primary sector
(B) Secondary sector
(C) Tertiary sector
(D) GST sector

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156. Match term of Column-I with Column-II.

| Column-I |  | Column- II |  |
| :--- | :--- | :--- | :--- |
| (a) | Land | (i) | Engineer |
| (b) | Labour | (ii) | Mines |
| (c) | Capital | (iii) | Machines |
| (d) | Money | (iv) | Purchasing power |
| 1. (a)-(i), (b)-(ii), (c)-(iii), (d)-(iv) | 2. (a)-(ii), (b)-(i), (c)-(iii), (d)-(iv) |  |  |
| 3. (a)-(iv), (b)-(ii), (c)-(i),, (d)-(iii) | 4. (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii) |  |  |

157. Why despite less calories requirement urban areas have a higher poverty line?
158. because of higher prices of many essential commodities in urban areas
159. urban people eat more in hotels
160. causes of poverty are different in urban areas
161. urban people incur more medical expenses
162. If farmer works at his field of 5 acre and produces total 150 quintals of wheat in a year. His son grown up and joined the farming with his father. Which of the following shows the disguised unemployment, if:
163. production of wheat increase by 50 quintals
164. production of wheat remain constant
165. production of wheat increase by 20 quintals
166. production of wheat increase by 100 quintals
167. Which one of the following statement is incorrect regarding commercial banking?
168. It deals with money. It accepts deposits and advance loans.
169. It deals with credit and has power to create credit.
170. It deals with the general public
171. It is not a commercial institutions whose aim is to earn profit
172. Human Development Index compares countries based on which of the following levels of the people?
(i) Education level
(ii) Pollution level
(iii) Health Status
(iv) Buildings
(v) Per capita income
173. (i), (ii), (iii)
174. (i), (iii), (v)
175. (ii), (iv), (v)
176. (i), (ii), (v)
177. Which has more number of particles?
178. 16 g of Na atom
179. 8 g of $\mathrm{O}_{2}$ molecules
180. 0.1 mole of carbon atom
181. 28 g of $\mathrm{N}_{2}$ molecules
182. Choose the correct option about cheese:
183. Cheese is an example of emulsion in which dispersed phase is a liquid and dispersing medium is solid.
184. Example of gel in which dispersed phase is solid and dispersing medium is liquid.
185. Example of emulsion in which dispersed phase is solid and dispersing medium is liquid.
186. Example of gel in which dispersed phase is liquid and dispersing medium is solid.
187. If the aluminium salt of anion ' $X$ ' is $\mathrm{Al}_{2} \mathrm{X}_{3}$ the formula of magnesium salt of ' $X$ ' will be:
188. $\mathrm{Mg}_{2} \mathrm{X}$
189. $\mathrm{MgX}_{2}$
190. MgX
191. $\mathrm{Mg}_{2} \mathrm{X}_{3}$
192. On reacting a compound of calcium ( x ) with water compound ( y ) is obtained. ( y ) on boiling with $\mathrm{NH}_{4} \mathrm{Cl}$ a gas ( $z$ ) is obtained. $x, y \& z$ respectively are:
193. $\mathrm{CaCO}_{3}, \mathrm{CaO}, \mathrm{NH}_{3}$
194. $\mathrm{CaCO}_{3}, \mathrm{CaO}, \mathrm{Cl}_{2}$
195. $\mathrm{CaO}, \mathrm{CaCl}_{2}, \mathrm{Cl}_{2}$
196. $\mathrm{CaO}, \mathrm{Ca}(\mathrm{OH})_{2}, \mathrm{NH}_{3}$
197. A metal x is placed below Al and above Pb . The extraction of metal is done by reacting carbon with its oxide. Metal oxide is used to join cracks of machine parts and rail lines by reacting it with AI. The metal is:
198. Zn
199. Cu
200. Fe
201. Mg
202. A colourless gas with choking smell is evolved when Cu turning are heated with Conc. $\mathrm{H}_{2} \mathrm{SO}_{4}$. The gas is:
203. $\mathrm{SO}_{2}$
204. $\mathrm{SO}_{3}$
205. $\mathrm{H}_{2} \mathrm{~S}$
206. S
207. Acetic acid is reduced with $\mathrm{LiAlH}_{4}$ to give:
208. $\mathrm{CH}_{3} \mathrm{CH}_{2} \mathrm{OH}$
209. $\mathrm{CH}_{3} \mathrm{CHO}$
210. $\mathrm{CH}_{3} \mathrm{OH}$
211. $\mathrm{CH}_{3} \mathrm{CH}_{3}$
212. Read the statements about carbon and choose correct option:
(a) It has small atomic size
(b) Its melting \& boiling point is low as compared to other members of group
(c) It shows electropositive character
(d) It shows maximum tendency of catenation
213. a, b are correct
214. b, d are correct
215. a, c and d are correct
216. a \& d are correct
217. Which of the following metal is not placed in eighth group of Mendeleev periodic table?
218. Fe
219. Na
220. Pt
221. Ni
222. Baking powder is a mixture of:
223. Sodium carbonate \& sodium hydrogen carbonate
224. Sodium carbonate \& acetic acid
225. Sodium hydrogen carbonate \& methanoic acid
226. Sodium hydrogen carbonate \& terteric acid
227. Which of the following elements from acidic oxide?
228. Element with atomic no. 7
229. Element with atomic no. 3
230. Element with atomic no. 15
231. Element with atomic no. 19
232. $\mathrm{KMnO}_{4}$ is a strong oxidizing agent in acidic medium. To provide acidic medium $\mathrm{H}_{2} \mathrm{SO}_{4}$ is used instead of HCl because:
233. $\mathrm{H}_{2} \mathrm{SO}_{4}$ is stronger acid than HCl
234. $\mathrm{H}_{2} \mathrm{SO}_{4}$ is a dibasic acid
235. HCl is oxidized by $\mathrm{KMnO}_{4}$ to $\mathrm{Cl}_{2}$
236. Only $\mathrm{H}_{2} \mathrm{SO}_{4}$ is completely ionized
237. Consider the two statements below one labeled as Assertion (A) and other as Reason (R). Examine these two statements carefully and decide if Assertion (A) and Reason (R) individually true and if so $(R)$ is a correct explanation of $(A)$ select your answer using the code given below:
Assertion (A): $\mathrm{CO}_{2}$ is a gas but $\mathrm{SiO}_{2}$ is a solid at room temperature.
Reason ( R ): $\mathrm{CO}_{2}$ contain $\mathrm{C}=\mathrm{O}$ bonds but $\mathrm{SiO}_{2}$ does not contain $\mathrm{Si}=\mathrm{O}$ bonds.
238. Both $A \& R$ are true and $R$ is a correct explanation of $A$
239. Both $A \& R$ are true but $R$ is not correct explanation of $A$
240. $A$ is true $R$ is false
241. $A$ is false $R$ is true
242. Trippling the speed of a motor car multiplies the distance needed for stopping it by:
243. 3
244. 6
245. 9
246. 12
247. Two bodies of masses $m_{a}$ and $m_{b}$ are dropped from different heights ' $a$ ' and ' $b$ '. The ratio of time taken by them to reach the ground is:
248. $\sqrt{a}: \sqrt{b}$
249. $a: b$
250. $\frac{1}{a}: \frac{1}{b}$
251. $m_{a}: m_{b}$
252. A person throws ball with a velocity ' $v$ ' from top of a building in vertically upward direction. The ball reaches the ground with a speed of ' $3 v$ '. The height of the building is:
253. $\frac{4 \mathrm{v}^{2}}{\mathrm{~g}}$
254. $\frac{3 v^{2}}{g}$
255. $\frac{6 v^{2}}{g}$
256. $\frac{9 v^{2}}{g}$
257. A bottle full of water containing an air bubble is rotated in horizontal circle by a string tied to the neck of the bottle. Then air bubble will:
258. be collected at bottom
259. remain unaffected
260. be collected at the wall of bottle
261. be collected at the neck
262. Three voltmeters all having different resistances are joined as shown. When some potential difference is applied across $A$ and $B$, then readings in voltmeter are $V_{1}, V_{2}$ and $V_{3}$ :

263. $V_{1}=V_{2}$
264. $V_{1}<V_{2}$
265. $V_{1}+V_{2}=V_{3}$
266. $V_{1}+V_{2}>V_{3}$
267. What is potential difference across $A B$ ?
268. 24 V

269. Three equal resistors connected in series across a source of emf dissipate 10 watt. If the same resistors are connected in parallel across the same emf, the power dissipated will be:
270. 10 watt
271. 30 watt
272. $\frac{10}{3}$ watt
273. 90 watt
274. A long wire carries a steady current. It is then bent into a circle of one turn and magnetic field at the centre of coil is $B$. Then it is bent into $n$-turns. Magnetic field at centre of coil will be:
275. $2 n^{2} B$
276. 2 nB
277. $n^{2} B$
278. nB
279. If ' $p$ ' and ' $q$ ' are distance of object and image from principal focus of a concave mirror then what is the relation between ' p ', ' q ' and ' f '?
280. $p q=\sqrt{f}$
281. $p q=f$
282. $p q=f^{2}$
283. $p q=\frac{1}{f}$
284. When the object is at distances $u_{1}$ and $u_{2}$ from a lens, a real and virtual images are formed respectively having the same magnification. The focal length of lens is:
285. $u_{1}+\frac{u_{2}}{2}$
286. $\frac{u_{1}-u_{2}}{2}$
287. $\frac{\mathrm{u}_{1}+\mathrm{u}_{2}}{2}$
288. $\mathrm{u}_{1}+\mathrm{u}_{2}$
289. A pump motor is used to deliver water at a certain rate from a given pipe. To obtain twice as much water from the same pipe in same time, power of motor has to be increased:
290. 16 times
291. 4 times
292. 8 times
293. 2 times
294. Ultrasonic, infrasonic and audiowaves travel through a medium with speeds $\mathrm{v}_{1}, \mathrm{v}_{2}$ and $\mathrm{v}_{3}$ respectively. Then:
295. $v_{1}, v_{2}$ and $v_{3}$ are nearly equal
296. $v_{1} \geq v_{3} \geq v_{2}$
297. $v_{1} \leq v_{3} \leq v_{2}$
298. $v_{3} \ll v_{1}$ and $v_{1} \simeq v_{2}$
299. The magnetic field lines due to a bar magnet are correctly shown in:

(b)

(c)

300. a
301. b
302. c
303. d
304. Which one of the following is made of only one type of macromolecule?
305. Virus
306. Plasmid
307. Nucleosome
308. Ribosome
309. Among carbohydrates, lipids, proteins and ATP, the relative energy yield in kcal/gm is best represented by:
310. Lipids > Carbohydrates > ATP
311. ATP > Lipids > Protein
312. Lipids > ATP > Carbohydrates
313. Lipids > Proteins > ATP
314. The sub units of ribosomes in cells of nephron of mouse are:
315. 50 S \& 30 S
316. $40 \mathrm{~S} \& 23 \mathrm{~S}$
317. 70 S \& $16 S$
318. 60 S \& 40 S
319. Involuntary muscles are not found in:
320. Iris
321. Bronchi of lung
322. Tongue
323. Heart
324. Different microorganisms taking part in nitrogen cycle are:
(i) Rhizobium in roots
(ii) Ammonifying bacteria
(iii) Nitrifying bacteria
(iv) Denitrifying bacteria

Which of them strictly work under anaerobic conditions?

1. only iv
2. i \& iv
3. i, ii \& iv
4. ii \& iv

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192. The following pictures were drawn by a student to show different stages of binary fission:


The correct sequence of these figures is:

1. iii, ii, iv, i
2. iii, iv, ii, i
3. ii, iii, iv, i
4. iv, iii, ii, i
5. Which of the following is not strictly considered as a part of neuron?
6. Dendrite
7. Myelin sheath
8. Axon
9. Cell body
10. Which of the following statement about autotrophs is incorrect?
11. They synthesize carbohydrates from carbon dioxide and water.
12. they store carbohydrate in the form of starch.
13. They convert water \& $\mathrm{CO}_{2}$ into carbohydrate only in the absence of light.
14. They constitute first trophic level in the food chain.
15. Correct pathway of blood in circulatory system is:
16. atria $\rightarrow$ ventricles $\rightarrow$ artery $\rightarrow$ veins
17. ventricles $\rightarrow$ atria $\rightarrow$ veins $\rightarrow$ arteries
18. ventricles $\rightarrow$ veins $\rightarrow$ atria $\rightarrow$ arteries
19. atria $\rightarrow$ arteries $\rightarrow$ ventricles $\rightarrow$ veins
20. Which of the following is essential for formation of thyroxine hormone in the thyroid gland?
21. Sodium
22. Chloride
23. Potassium
24. lodine
25. In a given food chain if frog has 100 J of energy then the energy available with plants and snake respectively will be:
Plants $\rightarrow$ Insect $\rightarrow$ Frog $\rightarrow$ Snake
26. 1000 J and 10 J
27. 10000 J and 10 J
28. 10 J and 1000 J
29. 1000 J and 100 J
30. Characters that are transmitted from parents to offspring during reproduction show:
31. Only similarities with parents
32. Only variations with parents
33. Both similarities and variation with parents
34. Neither similarities nor variations with parents
35. Rajiv was absent in class due to muscle pain which he claims was due to excess of physical exercise he has done yesterday. The pain is due to:
36. Formation of Pyruvic Acid
37. Formation of Acetic Acid
38. Formation of Lactic Acid
39. Formation of Hydrochloric Acid
40. Which of the following constitutes a good food chain?
41. Grass, Wheat, Mango
42. Grass, Goat, Lion
43. Goat, Cow, Elephant
44. Grass, Fish, Goat
