

- h) Inner cover page of the Test Booklet or the blank space/pages at the end of the Test Booklet may be used for rough work.
- i) In case of any dispute it will be subject to jurisdiction of Dehra Dun court only.

## **SAMPLE WRITTEN TEST QUESTIONS**

The set of questions given below will familiarize the candidates with the type of Questions in the FRI Deemed to be University Admission Test. These questions are only indicative of the nature of the test and it is possible that types of questions not illustrated here may appear in the test.

### **ANSWER ALL THE QUESTIONS**

1. Which of the following process converts solid into gas?
  - a. Vaporization
  - b. Sublimation
  - c. Deposition
  - d. Fusion
2. In which case the matter intermolecular force is stronger?
  - a. Plasma
  - b. Gas
  - c. Liquid
  - d. Solid
3. A system containing two equal and opposite charges separated by a finite distance is called as -----
  - a. Electric flux
  - b. Electric field
  - c. Electric dipole
  - d. None of the above
4. What is the effect on the capacitance of a conductor when an earthed conductor is brought near it?
  - a. Decreases
  - b. Increases
  - c. No effect
  - d. Always decrease
5. Which of the following statement about LED (Light Emitting diode) is correct?
  - a. Fast action
  - b. Low operational voltage
  - c. Short life span
  - d. Both (a) and (b)
6. The device used in satellites to recharge their batteries is -----
  - a. Photodiode
  - b. LED
  - c. Solar cell
  - d. Zener diode

7. Balmer series of the hydrogen emission spectrum lies in which region?
- Ultraviolet region
  - Visible region
  - Far infrared region
  - None of the above
8. Which of the following statement about the Gamma rays is incorrect?
- Gamma rays travel in a vacuum with the speed of light.
  - Gamma rays have the least penetration power.
  - Gamma rays have the least ionizing power.
  - Gamma rays are neutral.
9. What is the ratio of the radii of the two nuclei with the mass number 1 and 64?
- $\frac{1}{2}$
  - $\frac{1}{4}$
  - $\frac{1}{64}$
  - $\frac{1}{16}$
10. The losses occurring in the core of the transformer that produces sound and vibrations is known as -----
- Humming losses
  - Hysteresis losses
  - Iron losses
  - Copper losses
11. An instrument that comprises of only a single convex lens is -----
- Refracting telescope
  - Compound telescope
  - Simple telescope
  - Reflecting telescope
12. Which of the following is not a use of the Polaroid?
- Polaroid sheets present in sunglasses protect our eyes from the glass.
  - Polaroid is used in 3D pictures.
  - Partially polarized light beams show no variation in intensity.
  - It is used in the analysis of the given light beam.
13. The speed of sound in the medium depends on -----
- Wavelength
  - Nature
  - Direction of propagation
  - Intensity
14. Which light is deviated more by a prism?
- Red
  - Blue
  - Orange
  - Yellow

15. Carbon atom in ethene is \_\_\_\_\_ hybridised.
- sp
  - sp<sup>3</sup>
  - sp<sup>2</sup>
  - sp<sup>4</sup>
16. Naturally occurring fats and oils are fatty acid esters of \_\_\_\_\_.
- Ethylene glycol
  - Propylene glycol
  - Glycerol
  - All the above
17. The stability of carbocation is enhanced by the presence of
- Electron withdrawing substituent
  - Electron donating substituent
  - Both electron-donating and electron-withdrawing substituents
  - None of them
18. The molarity (M) of a solution that contains 1.825 grams of HCl in 2.00 liter of solution is
- 0.250 mol HCl/L
  - 0.050 mol HCl/L
  - 0.025 mol HCl/L
  - 2.50 mol HCl/L
19. When a mixture of alkyl halide and aryl halide gets treated with sodium in dry ether, the product obtained is called:
- alkane
  - alkyl arene
  - both alkane and alkyl arene
  - All the above
20. Trihalogen compounds that are derived from methane are known as:
- Methyl chloride
  - Haloform
  - Ethylene chloride
  - All the above
21. Aromatic compounds present as particulates are
- Benzene
  - Toluene
  - Polycyclic hydrocarbons
  - Nitrobenzene
22. The compound containing one carbon atom common to two rings are called
- Bicyclic compounds
  - Allenenes
  - Spiranes
  - None of the above

23. Which of the following molecules is not chiral?
- 1,2,5-trihydroxy pentane
  - 3-hydroxy pentane
  - 1,3-dihydroxy pentane
  - 2- hydroxy pentane
24. The water will boil at  $99^{\circ}\text{C}$  at which one of the following pressure
- 1 atm
  - Slightly lesser than 1atm
  - Slightly more than 1atm
  - 0.1 atm
25. The oxidation number of hydrogen in the ionic metal hydride is
- 1
  - +1
  - 2
  - +2
26. Benzene is treated with carbon monoxide and hydrogen chloride in the presence of anhydrous aluminum chloride to give benzaldehyde. This reaction is known as:
- Gatterman Koch reaction
  - Clemmenson reduction
  - Aldol condensation
  - Canizarro reaction
27. Chlorophyll contains the following metal ion?
- Iron
  - Manganese
  - copper
  - Magnesium
28. Which of the following salts will not change the pH of pure water on dissociation
- KCl
  - $\text{AlCl}_3$
  - $\text{Na}_2\text{CO}_3$
  - $\text{Al}_2(\text{SO}_4)_3$
29. It is an igneous, volcanic and basic rock
- Porphyrite
  - Peridotite
  - Lamprophyre
  - Basalt
30. Invertebrate fossils were present during
- Pre-cambrian group
  - Palaeozoic group
  - Mesozoic group
  - Cannozoic group

31. In sedimentary rocks, joints parallel to strike are called
- Dip joint
  - Strike joint
  - Oblique joint
  - Bedding joint
32. It is used in the manufacture of aluminum, aluminum compounds and as an abrasive. Name the mineral
- Gypsum
  - Galena
  - Bauxite
  - Borax
33. When lateral pressure brings change in the rocks, this process is called
- Thermal metamorphism
  - Dynamic metamorphism
  - Static metamorphism
  - local metamorphism
34. Mineral staurolite is present in
- Igneous rocks
  - Sedimentary rocks
  - Metamorphic rocks
  - All the Three
35. Density of crust
- 2.8 to 3.2
  - 4
  - 6 to 8
  - 10
36. Limbs in a fold are known as
- Top
  - Sides
  - Bottom
  - None of the three
37. Submarine earthquakes which causes a considerable change in the level of ocean floor is known as
- Sea caves
  - Spouting horn
  - Tsunamis
  - Chasms
38. A mass of comparatively new rocks surrounded by older rocks is known as
- Inlier
  - Outlier
  - Outcrop
  - All the three

39. A peculiar type of rounded hill resembling in an inverted boat
- Kettle
  - Drumlin
  - Kame
  - Esker
40. Normal class of hexagonal system
- Beryl type
  - Zircon type
  - Galena type
  - None of the three
41. Transfer of pollen grain from anther to stigma of another flower of the same plant is called as:
- Geitonogamy
  - Xenogamy
  - Cleistogamy
  - Chasmogamy
42. Tapetal cells are characterized by:
- Mitotic division
  - Meiotic division
  - Endomitosis
  - Endomitosis as well as endopolyploidy
43. The entry of pollen tube into the ovule through micropyle is called as:
- Porogamy
  - Mesogamy
  - Anisogamy
  - Chalazogamy
44. Cytoplasm of ovum does not contain:
- Golgi complex
  - Centrosome
  - Mitochondria
  - Ribosomes
45. Sertoli cells are found in:
- Upper part of Fallopian tubes
  - Germinal epithelium of seminiferous tubule
  - Between the seminiferous tubule
  - Germinal epithelium of ovary
46. Which of the following viruses is not transferred through semen of an infected male?
- Hepatitis-B virus
  - HI Virus
  - Chikungunya virus
  - Ebola virus

47. Mating of an organism to a double recessive in order to determine whether it is homozygous or heterozygous for a character under consideration is called:
- Reciprocal cross
  - Test cross
  - Dihybrid cross
  - Back cross
48. Which of the following is a non-proteinaceous enzyme?
- Ligase
  - Deoxyribonuclease
  - Lysozyme
  - Ribozyme
49. What are Coacervates?
- Colloidal droplets containing nucleoproteins
  - Primates
  - Chordates
  - Bacteria
50. Which of the following facilitates opening of stomatal aperture?
- Decrease in turgidity of guard cells
  - Radial orientation of cellulose microfibrils in the cell wall of guard cells
  - Longitudinal orientation of cellulose microfibrils in the cell wall of guard cells
  - Contraction of outer wall of guard cells
51. Aerobic respiratory pathway is appropriately termed as:
- Catabolic
  - Parabolic
  - Amphibolic
  - Anabolic
52. Which one of the following is the correct matching of a Vitamin, its nature and its deficiency?
- Vitamin-A; Fat soluble, Night blindness
  - Vitamin-A; Fat soluble, Beri-beri
  - Vitamin-K; Fat soluble, Beri-beri
  - Vitamin-K; Water soluble, Pellagra
53. Lungs are made up of air-filled sacs, the alveoli. They do not collapse even after forceful expiration because of:
- Residual volume
  - Inspiratory volume
  - Tidal volume
  - Expiratory volume
54. There is a species which has been exploited for the production of Hirudin. What is this Hirudin?
- A protein produced by *Hordeum vulgare*, which is rich in lysine
  - A toxic molecule isolated from *Gossypium hirsutum*, which reduces human fertility
  - A protein produced by *Brassica napus*, which prevents blood clotting
  - An antibiotic produced by a genetically engineered bacterium, *Escherichia coli*

55. A rainy day called when rainfall received in 24 hrs
- >2.5 mm
  - >3.0 mm
  - >5.0 mm
  - >1.0 mm
56. Central Institute of Post-Harvest Engineering and Technology (CIPHET) is located at?
- Pune
  - Gurgaon
  - Jabalpur
  - Ludhiana
57. Which of the following design does not follow local control?
- Completely Randomized design
  - Latin Square design
  - Randomized block design
  - None of the above
58. Which one of the following is total root parasite?
- Striga
  - Loranthus
  - Cuscuta
  - Orobanche
59. What is the primary determinant of soil texture?
- Organic matter content
  - Soil pH
  - Particle size distribution
  - Cation exchange capacity
60. Which of the following practices is commonly used in sustainable agriculture to reduce soil erosion?
- Strip-till farming
  - Broadcast seeding
  - Continuous monoculture
  - Overhead irrigation
61. Which vegetable is classified as a brassica crop and is known for its high content of glucosinolates?
- Cauliflower
  - Green beans
  - Radish
  - Zucchini
62. **Polycarpic plant is**
- pear
  - pea
  - agave
  - bamboo



63. Which of the following is a fungal disease commonly affecting cereal crops and characterized by elongated lesions with dark brown or purple centers?
- Late blight
  - Rust
  - Fusarium wilt
  - Septoria leaf spot
64. Which of the following is an example of  $N_2$  fixing organism?
- Frankia
  - all of these
  - rizhobium
  - azospirillum
65. Fruits after ripping become soft. It is due to?
- dissolution of tannins in sap
  - dissolution of middle lamella
  - formation of ethylene gas
  - formation of auxins
66. When a heterozygous offspring is crossed with a homozygous recessive parent, it is called
- Test cross
  - Reciprocal cross
  - Monohybrid cross
  - Dihybrid cross
67. Which of the following is not a micro irrigation system?
- Drip Irrigation
  - Sprinklers
  - Flow drip emitters
  - Surface irrigation
68. Which one of the following fertilizers is known as 'Kisan Khad'?
- Ammonium Sulphate
  - Urea
  - Calcium Ammonium Nitrate
  - None of these
69. Prior to 42<sup>nd</sup> Amendment to the Constitution of India, Forests as a subject were under
- The State list
  - The Central list
  - The Concurrent list
  - None of the above
70. The tiny particle of the plant cell responsible for Carbon Sequestration is
- Mitochondrion
  - Nucleus
  - Chloroplast
  - Ribosome

71. Maximum carbon foot prints are left behind by
- Hydro power generation
  - Thermal power generation
  - Nuclear power generation
  - All of them
72. In the phrase, “UNESCO’s MAB Program”, MAB stands for
- Medicinal & Aromatic Board
  - Management & Afforestation Board
  - Man and Biosphere
  - Monitoring & Assessment of Biodiversity
73. Geographically largest amongst the following
- Ecosystem
  - Biome
  - Ecotone
  - Habitat
74. Which of the following is not prepared from the wood obtained from forests
- Plywood Board
  - Particle Board
  - Thermacol Board
  - Match Splints
75. Forest Biometry is a synonym to
- Silviculture
  - Forest Mensuration
  - Forest Utilization
  - Forest Working Plan
76. Cutting of seedlings, plants or trees near to the ground level to induce new shoots is
- Coppicing
  - Pollarding
  - Girdling
  - None of the above
77. Botanical name of ‘Flame of the Forest’ is
- Diospyrous melanoxyton
  - Bombax ceiba
  - Butea monosperma
  - None of the above
78. Silvicultural Practice of ‘Selection System’ is applied to
- Mixed forests of all age gradations
  - Pure forests of even-aged crops
  - Monoculture Plantations of Exotics
  - None of the above
79. Bamboo is a
- Tree
  - Shrub

- c. Grass
  - d. None of the above
80. 'Forest Conservation Act' is enacted in the year
- a. 1927
  - b. 1952
  - c. 1972
  - d. 1980
81. Who among the following designed the famous structure the Gateway of India?
- a. Alexander Thompson
  - b. George Wittet
  - c. Edward Lyutens
  - d. James Miller
82. Who has the power to summon or prorogue the Parliament and dissolve the Lok Sabha?
- a. The Chief Justice of India
  - b. The Attorney General
  - c. The President
  - d. The Prime Minister
83. What is the minimum quorum required in Lok Sabha to transact any business?
- a.  $\frac{1}{2}$
  - b.  $\frac{1}{3}$
  - c.  $\frac{1}{3}$
  - d.  $\frac{1}{10}$
84. Which among the following is a narrow ridge of rock separating two valleys?
- a. Arete
  - b. Seifs
  - c. Canyon
  - d. Horn
85. Which among the following statements about igneous rocks is not correct?
- a. Igneous rocks cooled deep inside the earth are called as intrusive rocks
  - b. Igneous rocks in which the magma flows out and cools on the earth's surface are called as extrusive rocks
  - c. Intrusive rocks have small crystals
  - d. Basalt is an example of extrusive igneous rock
86. **The first symbol of the new era was \_\_\_\_\_. Its production boomed in the late nineteenth century.**
- a. Cotton
  - b. Wool
  - c. Silver
  - d. Aluminium
87. \_\_\_\_\_ was the famous Indian freedom fighter who made an important observation about resource conservation – "There is enough for everybody's need and not for anybody's greed".
- a. Mahatma Gandhi

- b. Jawaharlal Nehru
  - c. Subash Chandra Bose
  - d. Dr. B.R.Ambedkar
88. **On the basis of raw materials used, industries are classified as \_\_\_\_\_**
- a. Public sector and private sector
  - b. Basic industries and consumer industries
  - c. Agro-based and mineral-based industries
  - d. None of the above
89. **The historical Sher-Shah Suri Marg is called National Highway No.1, between Delhi and \_\_\_\_\_.**
- a. Jalandhar
  - b. Chandigarh
  - c. Ludhiana
  - d. Amritsar
90. **\_\_\_\_\_ port is the deepest landlocked and well-protected port of India.**
- a. Vishakhapatnam
  - b. Kochi
  - c. Tuticorin
  - d. Paradip
91. **A party that secures at least six per cent of the total votes in an election to the Legislative Assembly of a State and wins at least \_\_\_\_\_ is recognised as a State party.**
- a. two seats
  - b. three seats
  - c. one seat
  - d. four seats
92. **Which of the following is an example of ‘coming together’ federations?**
- a. Spain
  - b. Belgium
  - c. USA
  - d. All the above.
93. **Indira Sagar Dam located in Madhya Pradesh is built on which of the following river?**
- a. Yamuna
  - b. Chambal
  - c. Narmada
  - d. Krishna
94. **Which of the following countries are divided by the Durand Line?**
- a. Afghanistan and Pakistan
  - b. India and Pakistan
  - c. India and China
  - d. India and Burma

95. Which of the given points is not true about Democracy?
- It improves the quality of decision making
  - It worries about majorities and public opinion
  - It gives room to correct mistakes
  - Decision making is much faster
96. In which year was the Battle of Plassey fought?
- 1757
  - 1767
  - 1769
  - 1784
97. **The Sikh gurus who compiled the Guru Granth Sahib was**
- Nanak
  - Har Rai
  - Arjun
  - Bahadur
98. The resources of ownership are:
- Plantation
  - pasture land
  - ponds
  - All of these
99. Who were the philanthropists?
- People who wanted to stop crime, and work for social upliftment
  - People who worked for social upliftment and charity, donating time and money for the purpose
  - People who wanted a hard-working, orderly labour force
  - People who worried about law and order
100. Which of the following sedimentary minerals is formed as a result of evaporation, especially in arid regions?
- Coal
  - Potash salt
  - Iron ore
  - Sulphur
101. A and B begin a project together. The ratio of efficiency of A to that of B is 5:7. Working together, they can complete a work in 9 days. On the 4<sup>th</sup> day of the project, B fell sick and did not show up to work. A had to complete the remainder of the project by himself. How many days (rounded up) did the project take to complete?
- 15 days
  - 18 days
  - 21 days
  - 12 days
102. The average of 16 numbers is 57. The average of first 4 numbers is 49 and that of next 9 numbers is 61. The 14<sup>th</sup> number is 5 less than the 15<sup>th</sup> number which is half of the 16<sup>th</sup> number. What is the ratio of 14<sup>th</sup> and 16<sup>th</sup> numbers?
- 4:9

- b. 9:4  
c. 2:1  
d. cannot be determined
103. The graphs of the equation  $4x+3y-8=0$  and  $2x-3y+2=0$  intersect at  $P(\alpha,\beta)$ . What is the value of  $4\alpha-3\beta$ ?  
a. 0  
b. 1  
c. 2  
d. 3
104. The sides PQ and PR of  $\Delta PQR$  are produced to M and N respectively. The bisectors of  $\angle MQR$  and  $\angle NRQ$  meet at O. If  $\angle PQR$  is  $64^\circ$ , then what is  $2\angle ROQ$ ?  
a.  $58^\circ$   
b.  $116^\circ$   
c.  $66^\circ$   
d. cannot be determined
105. The height of a cylinder is 3 cm less than the diameter of its base. If its radius of the base is equal to its height, how much would it cost to paint the whole cylinder @ ₹3.5/cm<sup>2</sup>?  
a. ₹198  
b. ₹188  
c. ₹606  
d. ₹594
106. Salaries of A, B, C and D are in the ratio 2:3:5:7. During COVID-19 the company temporarily reduced their salaries by 20 percent, 30 percent, 40 percent and 50 percent respectively. If the salary of B was reduced by ₹13500, what is the revised salary of D?  
a. ₹105000  
b. ₹70000  
c. ₹52500  
d. ₹45000
107. A person sells an article for 18% profit. His cost of production went up by 30% during COVID-19. To avoid incurring a loss, he had to increase his selling price by ₹18 to reach breakeven point. What was the old selling price of the article?  
a. 177  
b. 195  
c. 118  
d. none of the above
108. Salary of Amit is 50% higher than Sumit. Salary of Sumit is how many percent lower than Amit?  
a. 50%  
b. 25%  
c. 33%  
d. 40%
109. A solid ball of gold was melted to form 8 biscuits of 10.1 g each. What was the radius (approx.) of the original gold ball? (specific gravity<sub>gold</sub>=19.3)  
a. 0.5 cm

- b. 1 cm
  - c. 1.5 cm
  - d. 2 cm
110. A bus took 5 hours to reach Dehradun from Delhi. How long would a car going 25% faster take to reach Delhi from Dehradun?
- a. 3 hours
  - b. 3 ½ hours
  - c. 3 hours 45 minutes
  - d. 4 hours
111. How many ml of 20% v/V H<sub>2</sub>SO<sub>4</sub> and distilled water each are needed to make 1 l solution of 5% v/V H<sub>2</sub>SO<sub>4</sub>?
- a. 150 ml and 850 ml
  - b. 200 ml and 800 ml
  - c. 250 ml and 750 ml
  - d. none of the above
112. Two trains of length 250 m and 400 m are moving towards each other at 108 kmph and 72 kmph respectively. If the current distance between them is half a km, then in how much time will they completely cross each other?
- a. 7 seconds
  - b. 11.5 seconds
  - c. 23 seconds
  - d. cannot be determined
113. A, B and C started a business with initial investments of ₹50000, ₹40000 and ₹20000 respectively. After 6 months, C invested 20000 more. At the end of the year A withdrew ₹10000. What will be the ratio of ownership of the business between the three at the end of next year assuming no new capital flow?
- a. 5:4:2
  - b. 1:1:1
  - c. 9:8:7
  - d. cannot be determined
114. Manish and Shashank invested ₹30000 and ₹20000 in two different mutual funds. Manish realized a CAGR of 10% over 3 years and while Shashank received a CAGR of 20% over the same time period. What is the combined tax liability the pair given Long Term Capital Gains tax is 10%?
- a. ₹2449
  - b. ₹6442
  - c. ₹7100
  - d. ₹2100
115. A rectangular garden has an area of 243 square meters. Its length is 3 times its width. What are the dimensions of the garden?
- a. 7 m, 21 m
  - b. 9 m, 27 m
  - c. 8 m, 24 m
  - d. None of the above

116. Sanjay spends 20%, 30% and 25% of his salary on rent, food and travel. He saves the rest. If his rent is ₹15000 per month, what are his annual savings?
- ₹75000
  - ₹150000
  - ₹37500
  - ₹450000
117. A can do half of a work in 9 days. B can do  $\frac{1}{3}$ rd of the same work in 6 days. In how many days can they complete the work by working together?
- 11 days
  - 9 days
  - 14 days
  - 7 days
118. Two circles of radius 12 cm are intersecting each other such that each circle is passing through the center of the other. What is the length of the common chord of the circles?
- 6
  - $6\sqrt{3}$
  - $12\sqrt{3}$
  - 12
119. The base of a right prism is an equilateral triangle of side 6 cm. What is the height of the prism given that the volume of glass that was required to build it was  $81 \text{ cm}^3$ ?
- 6
  - $3\sqrt{3}$
  - $6\sqrt{3}$
  - 3
120. A train of length 300 meters took 22 seconds to cross a platform. If the train was travelling at a uniform speed of 90 kmph, what is the length of the platform?
- 150 meters
  - 200 meters
  - 250 meters
  - cannot be determined
121. How many spherical balls of 1cm radius can be produced by melting a cube with surface area  $96 \text{ cm}^2$ ?
- 15
  - 16
  - 18
  - 17
122.  $\sqrt[3]{N}$  lies between 5 and 6. How many values can N take given it is an integer?
- 89
  - 91
  - 107
  - None of the above
123. Raju went shopping and picked up a pair of jeans. The cashier offered him two discount options, A. flat 66% off or B. 40%+40% off. Which discount should he pick to maximize savings?



- a. A
  - b. B
  - c. either
  - d. neither
124. Rita and Gita started running on a 400m circular track together. Rita completes a lap in 75 seconds and sees Gita 45meters behind her. On which lap will Rita cross Gita again?
- a. 6<sup>th</sup>
  - b. 8<sup>th</sup>
  - c. 9<sup>th</sup>
  - d. 10<sup>th</sup>
125. What is the radius of the largest circle that can be fit inside a square of side 6 cm?
- a. 6
  - b. 3
  - c.  $3\sqrt{2}$
  - d.  $6\sqrt{2}$
126. How many 2 mm thick coins of diameter 3 cm can be made from a solid cylinder of height 10 cm and radius of the base 1.5 cm?
- a. 30
  - b. 40
  - c. 45
  - d. 50
127. What is the value of  $4\sin^2 60^\circ + 4\cos^2 60^\circ + 4\tan^2 45^\circ$ ?
- a. 4
  - b. 8
  - c. 16
  - d.  $4(1+\sqrt{3})$
128. What is the value of  $x^3 + y^3 + 3xy(x+y)$  if  $(x+y)$  is 3?
- a. 9
  - b. 27
  - c. 81
  - d. cannot be determined
129. In a group of 4 boys and 6 girls, four children are to be selected. In how many different ways can they be selected such that at least one girl should be there?
- a. 219
  - b. 209
  - c. 215
  - d. 210
130. If the mean of a population is greater than its median, the population histogram will be
- a. Skewed to the right
  - b. Skewed to the left
  - c. Symmetrical
  - d. Bell-shaped

131. What is variance of the six observations as 6, 6, 6, 6, 6, 6.
- 6
  - 3
  - 1
  - 0
132. If you add 4 with each observation, the arithmetic mean will be changed by ....
- 1
  - 2
  - 3
  - 4
133. If you add 81 with each observation, the standard deviation will be changed by
- 1
  - 81
  - 0
  - 9....
134. **A, B and C can complete a piece of work in 14, 6 and 12 days respectively. Working together, they will complete the work in**
- 19/9 days
  - 27 days
  - 28/9 days
  - 25/8 days
135. What will be geometric mean of 3, 9, 27
- 3
  - 9
  - 27
  - 13
136. The mean of following distribution would be
- |           |   |   |    |    |
|-----------|---|---|----|----|
| Value     | 5 | 4 | 10 | 11 |
| Frequency | 5 | 5 | 5  | 5  |
- 7.5
  - 7.25
  - 7.75
  - 5
137. Harmonic mean of 4, 10 and 20 is
- 5
  - 7.75
  - 7.50
  - 7.25
138. In the series, 1, 3, 7, 15, 31, X., 127; what is X?
- 58
  - 63
  - 127
  - 94

139. The probability that an electronic device produced by a company does not function properly is equal to 0.1. If 10 devices are bought, then the probability, to the nearest thousandth, that 7 devices function properly is
- 0.057
  - 0.478
  - 0.001
  - 0
140. Power set of empty set has exactly \_\_\_\_\_ subset.
- One
  - Two
  - Zero
  - Three
141. What is full form of UPI in banking?
- Uniform Payment Interface
  - Uniform Pay Interest
  - Unified Payment Interface
  - Unified Pay Interest
142. Portuguese were the first European to come to India. When did the Portuguese leave India?
- 1995
  - 1947
  - 1981
  - 1961
143. Who was said to be the last viceroy of India?
- Lord Louis Mountbatten
  - Lord Linlithgow
  - Lord Curzon
  - Lord Irwin
144. Where is the headquarters of the World Economic Forum?
- Geneva
  - Switzerland
  - New York
  - Mumbai
145. Which country won the Men's Hockey World Cup 2023 in Bhubaneswar?
- France
  - Australia
  - Belgium
  - Germany
146. Hibbertopterus lamsdelli, which was discovered, belongs to which species?
- Scorpio
  - Turtle
  - Spider
  - Snake

147. What is the currency of Iraq?  
a. Iraqi Shilling  
b. Iraqi Riyal  
c. Iraqi Dinar  
d. Iraqi Pound
148. Lake Tanganyika is the world's longest freshwater lake located in?  
a. Europe  
b. South Asia  
c. South America  
d. Africa
149. Where is the Keshopur Ramsar Site situated?  
a. Haryana  
b. Punjab  
c. Chhattisgarh  
d. Uttarakhand
150. What is the total number of members in BIMSTEC?  
a. 7  
b. 8  
c. 9  
d. 10
151. Which of this is not a cryptocurrency?  
a. Ethereum  
b. Bitcoin  
c. Polkadot  
d. Matrix
152. Who are the beneficiaries of the PM-VIKAS scheme announced in the Union Budget 2023?  
a. Teachers  
b. MSMEs  
c. Artisans  
d. Students
153. Where is City Birds Wildlife Sanctuary?  
a. Delhi  
b. Mathura  
c. Chennai  
d. Chandigarh
154. Which mountains serve as the boundary between Europe and Asia?  
a. Ural Mountains  
b. Andes Mountains  
c. Atlas Mountains  
d. Alps Mountains

155. Which country has found the radioactive capsule that went missing in January?  
a. USA  
b. Australia  
c. Russia  
d. Ukraine
156. When is the 'International Day of Human Fraternity' observed?  
a. February 2  
b. February 4  
c. February 6  
d. February 8
157. Yaya Tso' is a bio-diversity site located in which state/UT?  
a. Arunachal Pradesh  
b. Assam  
c. Sikkim  
d. Ladakh
158. ISRO commenced the training for crew module recovery for its Gaganyaan Mission, along with which Armed Force?  
a. Indian Army  
b. Indian Navy  
c. Indian Air Force  
d. Indian Coast Guard
159. Which strait lies between the Andaman Sea and the South China Sea?  
a. The Malacca Strait  
b. Bali Strait  
c. Clearance Strait  
d. Strait of Gibraltar
160. The deficiency of which nutrient causes plants to grow slowly and produce smaller flowers and fruits, with its leaves turning yellowish?  
a. Zinc  
b. Nitrogen  
c. Phosphorous  
d. Potassium
161. "The Story of My Deportation" is authored by?  
a. Lal Bahadur Shastri  
b. Mahatma Gandhi  
c. Indira Gandhi  
d. Lala Lajpat Rai
162. India signed a MoU with which country for reintroduction of cheetah and wildlife conservation?  
a. Australia  
b. Namibia  
c. Kenya  
d. Ghana

163. Gahirmatha Marine Sanctuary is located in which state/UT?
- Odisha
  - Andhra Pradesh
  - Kerala
  - Goa
164. National Initiative for Promoting Up skilling of Nirman workers 'NIPUN' is an initiative of which Union Ministry?
- Ministry of Housing & Urban Affairs
  - Ministry of MSME
  - Ministry of Commerce and Industry
  - Ministry of Women and Child Development
165. 'IUCN STAR Score', is associated with which field?
- Power Rating
  - Species Extinction
  - Air Quality
  - Solid Waste Management
166. Which among the following temperature scale is based upon absolute zero?
- Celsius
  - Fahrenheit
  - Kelvin
  - Rankine
167. What happens to the time period of the simple pendulum if the solid bob is replaced by a hollow sphere of same radius but half the mass?
- time period becomes double
  - time period remains unchanged
  - time period becomes half
  - time period becomes four times
168. Which among the following is the largest aluminium plant of India?
- HINDALCO
  - BALCO
  - NALCO
  - MALCO
169. Which Himalayan Peak is also called Sagar Matha?
- Mount Everest
  - Nanga Parbat
  - Kanchenjunga
  - Dhaulagiri
170. What is the full form of ADSL?
- Automatic Digital Subscriber Line
  - Asymmetric Direct Subscriber Line
  - Automatic Direct Subscriber Line
  - Asymmetric Digital Subscriber Line

**Q171-Q174.** Select the word that is **most similar** in meaning.

171. Ferret  
a. Steal  
b. Search  
c. Forget  
d. Fight
172. Evince  
a. To learn  
b. To exhibit  
c. To resist  
d. To become infirm
173. Counterfeit  
a. Constant  
b. Unknown  
c. Biased  
d. Fake
174. Admonish  
a. Warn  
b. Escape  
c. Worship  
d. Distribute warm

**Q175-Q178.** Choose the one which can be substituted for the given words.

175. Enclosed in a small closed space.  
a. Closophobia  
b. Clusterophobia  
c. Claustrophobia  
d. Liftophobia
176. Loss of memory  
a. Ambrosia  
b. Amnesia  
c. Insomnia  
d. Forgetting
177. Code of diplomatic etiquette and precedence  
a. Statesmanship  
b. Diplomacy  
c. Hierachy  
d. Protocol
178. An object or portion serving as sample  
a. Specification  
b. Spectre  
c. Spectacle  
d. Specimen

**Q179- Q182.** Choose the word **opposite** in meaning to the given words.

179. Augment  
a. Increase  
b. Defend  
c. Supplement  
d. Decrease
180. Amateurish  
a. Seasoned  
b. Trained  
c. Skilled  
d. Professional
181. Ignominious  
a. Valuable  
b. Desirable  
c. Honourable  
d. Clever
182. Disparage  
a. Compliment  
b. Convince  
c. Comfort  
d. Connect

**Q183- Q184.** Below are given alternative to the **bolded sentence/ part of the sentence** at (a), (b), (c), (d) which may improve the sentence. Choose the correct alternative

183. As soon as she noticed the workmen, she asked them **what they have been doing**.  
a. Have done  
b. Had been  
c. Are doing  
d. No improvement
184. He has lost **his nearly all many pets**.  
a. All his nearly many pets  
b. His many pets nearly all of them  
c. Nearly all his many pets  
d. No improvement

**Q185- Q186.** Choose the alternative which best expresses the meaning of the **Idioms/Phrase**.

185. Do not **lose your head** in public  
a. Get angry  
b. Get a headache  
c. Be embarrassed  
d. Important



186. Just **keep your wig on**. Everything will be alright
- Hold on to your wig, so it won't fall off
  - Get another hair cut
  - Calm down
  - Take off your wig

**Q187- Q191.** Read the following passage and answer the questions that follow:

The capitalist system of society does not foster healthy relations among human beings. A few people own all the means of production and others- though nominally few have to sell their labour under conditions imposed upon them. The emphasis of capitalism being on the supreme importance of material wealth the intensity of its appeal is to the acquisitive intensity. It promotes worship of economic power with little regard to the means employed for its acquisition and the end that it serves. By its exploitation of human beings to the limits of endurance its concentration is on the largest profit rather than maximum production.

Thus the division of human family is one on the basis of economic circumstance. All this is injurious to division of human dignity. And when the harrowed poor turn to the founder of religion for succor, they rather offer a subtle defence of the established order. They promise future happiness for their present suffering and conjure up visions of paradise to redress the balance to soothe the suffering and the revolt of the tortured men. The system imposes injustice, the religion justifies it.

187. The passage indicates that the capitalist system is
- Fair
  - Ambitious
  - Prosperous
  - Dehumanising
188. The established order is supported by religion to
- Alleviate the suffering of the poor in the capitalist system
  - Perpetuate the injustice imposed by the capitalist system
  - Balance the suffering of the poor with hopes of future rewards
  - Help the tortured men to seek redress
189. In a capitalist system
- The means justify the ends
  - The ends justify the means
  - The means endorsed by religion are strictly followed
  - Means which lead to exploitation are strictly prohibited
190. Capitalism is injurious to human relations because it divides society into two groups , i.e.
- Working and non- working
  - Exploiters and exploited
  - Religious and irreligious
  - Buyers and sellers
191. In a capitalistic system of society each men wishes
- To acquire maximum wealth
  - To produce maximum wealth
  - To have visions of paradise
  - To soothe the sufferings of other

**Q192- Q194. Find the correctly spelt word**

192.    a. Restorent  
         b. Restaurent  
         c. Restarent  
         d. Restaurant
193.    a. Sacrifice  
         b. Sacrifiесе  
         c. Secrifiесе  
         d. Secrifice
194.    a. Auxelary  
         b. Auxillary  
         c. Auxileary  
         d. Auxeliary

**Q195- Q197.** In the following questions has been given in **direct/ indirect speech**. Out of the four alternatives suggested select the one. Which best expresses the same sentence in indirect/ direct speech.

195.    Suresh asked Prasad whether he had watched the cricket match on television the previous night.  
         a. Suresh asked Prasad, "Have you watched the cricket match on television last night?"  
         b. Suresh asked to Prasad, "Did you watch the cricket match on television yesterday night?"  
         c. Suresh asked to Prasad, "Did you watch the cricket match on television last night?"  
         d. Suresh asked Prasad, "Did you watch the cricket match on television previous night?"
196.    She said, "When I was a child, I wasn't afraid of ghosts."  
         a. She said that when she was a child she wasn't not afraid of ghosts  
         b. She said that when she was a child she hadn't been afraid of ghosts  
         c. She said that when she was a child she wasn't afraid of ghosts  
         d. She said that when she had been a child she wasn't afraid of ghosts
197.    He said to the Interviewer, "Could you please repeat the question?"  
         a. He requested the interviewer if he could please repeat the question  
         b. He requested the interviewer to please repeat the question  
         c. He requested the interviewer to repeat the question  
         d. He requested the interviewer if he could repeat the question

**Q198- Q200.** Choose the **most suitable** alternative to make the sentence logical in sense.

198.    No one is allowed to..... the trees in the forest.  
         a. Fall  
         b. Fell  
         c. Fallen  
         d. Falling

199. Indian Government is planning to .....many changes in the constitution.
- a. Effect
  - b. Affect
  - c. Effected
  - d. Affected
200. When he .....to reality, all had been lost.
- a. Woke
  - b. Awake
  - c. Awoke
  - d. Awakening