

**Medical College Admission Test : 2005–2006**

1. Which is the characteristic of primary Xerosere?
A. It is introduced by phytoplankton stage.
B. It comes to end by seven stages
C. It comes to end by six stages. ✓
D. Reeds are remarkable among the fourth stage plant.
2. What is main reason of sweet smell of ripe fruits?
A. Ester ✓ B. Alcohol
C. Vitamin D. Mineral
3. A dinamo of 10 volts passes 2 amp current through 65 ohm's resistive lamp. What is the power in wall of this lamp?
A. 280 ✓ B. 220
C. 420 D. 240
4. Choose the correct English idiom for 'শান্তি দেওয়া'?
A. Bring on book B. Bring to light
C. Bring in light D. Bring to book ✓
5. What percentage of population of Bangladesh live below the poverty range?
A. 44.2 B. 43.3 ✓
C. 42.1 D. 45.4
6. What is the name of the final stage of malaria parasite's sex cycle?
A. Gamete B. Merozoite
C. Sphorozoite ✓ D. Gamnetocyte
7. What is not the isomerism of alcohol?
A. Activity group B. Position
C. Chain D. Tertiary ✓
8. Which is diamagnetic substance?
A. When it is placed in a magnetic field, it is magnetised slidely.
B. It is depulsed slidely by magnet ✓
C. It is attracted slidely by magnet
D. It is altracted strongly by magnet
9. Which statement is right for absorption of mineral salt?
A. Metabolism energy is not necessary.
B. Absorbed as ion. ✓
C. Absobed as molecule.
D. In maximum case absorbed by roots.
10. Which is used as germruinous to doctoral apparatus?
A. Menthol
B. A mixture of 70% ethanol and 30% water. ✓
C. A mixture of 30% ethanol and 70% water
D. Dettol
11. The virtuous (be) always happy, which one of the following is correct verb for the work within bracket?
A. have been B. Is
C. are. ✓ D. none of the above
12. What is the class of mura fish?
A. Osteichthyes. ✓ B. Amphibia
C. Chondrichthyes D. Myxini
13. Which of the following is used as moisturizing cream?
A. Ester B. Methyl
C. Ether D. Sorbital. ✓
14. Which is not applicable for kinetic energy?
A. Kinetic energy depends on the relative position of atoms and moles. ✓
B. The energy which it gains for motion.
C. If a particle of mass 'm' and velocity 'v' then kinetic energy = $\frac{1}{2}mv^2$
D. If velocity is zero then kinetic energy is absent.
15. Who is the artist of the song 'মোরা একটি ফুলকে বাঁচাবো বলে যুদ্ধ করি'?
A. Appele Mahmud. ✓
B. Sayed Abdul Hadi
C. Abdul Jobbar
D. Runa Laila
16. What is the optimum temperature of Hutch-plank cyclic process to create carbohydrates from atmospheric CO₂ by different reaction?
A. 1°-15°C B. 3°-45°C ✓
C. 1°-25°C D. 1°-70°C
17. Which of the following can't be determine by sound?
A. Height of long distance. ✓
B. Depth of sea
C. Velocity of sound
D. Density of particle
18. Choose the correct preposition to complete the following sentences: "He lives honest means"
A. by B. on
C. within. ✓ D. for
19. Which of the following characteristics is not for chordata?
A. Ligament cord is in ventral area, and solid central nervous system
B. Ligament cord is inflate and present in dorsal surface. ✓
C. Ligament cord is solid and present in ventral area
D. Ligament cord is inflate at dorsal surface and tubular fibre like.
20. What is the laboratory preparation process of alcohol?
A. Hydrolysis of 3° halogeno alkane. ✓
B. Preparation from natural gas.
C. Synthesis from water gas
D. Fermentation proccss





21. Which is not the characteristics of leguminosae family?
A. Fruit-legume
B. Root-fasciculated. ✓
C. Venation-Reticulate
D. Flower-tetramerous
22. Phosphorus is very active element. So, it is not found as free element in nature. Normally, which of the following is not mineral phosphate?
A. Phosphoric Acid [H_2PO_3]. ✓
B. Phosphorite [$Ca_3(PO_4)_2$]
C. Flour-appatite [$3Ca_3(PO_4)_2.CaF_2$]
D. Chloro-appatite [$3Ca_2(PO_4)_2.CaCl_2$]
23. In which of the following has not the use of Leclance cell?
A. Transistor. ✓ B. Telegram
C. Telephone D. Electric bell.
24. Bangladesh was divided into how many sectors at the liberation war?
A. 19 B. 8
C. 9 D. 11. ✓
25. Which of the following is applicable for a nephron?
A. Created from mesoderm of embryo. ✓
B. Each kidney has 12 nephron.
C. Occasionally and in simple process nephron separates nitrogen dust.
D. Created from actoderm of embryo.
26. Which of the following base is not RNA chain?
A. Guanine B. Thymine. ✓
C. Cytocine D. Adenine.
27. Which kind of lens is used for long sighted men?
A. Spherical B. plane
C. Concave D. Convex. ✓
28. Which one of the following sentence is incorrect?
A. She was married with a rich man.
B. The man was cured of his illness. ✓
C. The patient has died of Cholera
D. I hope he will succeed in his work.
29. Which plant has DNA virus?
A. Tobacco mosaic
B. Potato X
C. Sugarcane moslc ✓
D. Cauliflower-moslc
30. The PH of human arterial blood is 7.4; What is the concentration of hydrogen ion in blood?
A. $3.81 \times 10^{-7} \text{molL}^{-1}$
B. $3.98 \times 10^{-7} \text{molL}^{-1}$
C. $3.98 \times 10^{-8} \text{molL}^{-1}$ ✓
D. $3.89 \times 10^{-8} \text{molL}^{-1}$
31. Ginnl and fethar will fall at a time only then-
A. When the container has another substance with glnl and fethar
B. When air is in container
C. When air is not in container ✓
D. When water is in container
32. Choose the best indirect form of the following sentence: "Do you know the way to the station" She said to Mahin.
A. She asked Mahin whether he knew the way to the station ✓
B. She asked Mahin whether he knows the way to the station.
C. She ask Mahin if he new the way to the station
D. She asks Mahin if he knows the way to the station
33. What is the function of human ears capula?
A. To send sound wave
B. To maintain the equilibrium. ✓
C. To control the equilibrium
D. To balance the atmospheric pressure.
34. In $CuSO_4$ solution when 5A current is flown for 15 min, how many gm of Cu will stored? (Cu=63.5)
A. 1.84 B. 1.08
C. 1.04 D. 1.48. ✓
35. Determine the time in second from 1st December to 22nd December of 2005?
A. 1800900 B. 1900500. ✓
C. 1900080 D. 1900008
36. What is the name of the famous book of Sir Arthur Canan Doyle?
A. Paris Burning
B. David Copperfield
C. Jungle Story
D. The adventure of Sharlock Homes. ✓
37. What is not appropriate for monocotyledeaes root?
A. Cambium is never formed.
B. Number of vascular bundle is greater than-6
C. Perianth is always present and large
D. Vesole vacuole is multi-angled. ✓
38. Which statement is incorrect for artery?
A. Large lumen
B. Generally CO_2 riched blood is recyell to heart from different parts of the body
C. The artery wall has three layers
D. wall is elastic ✓
39. In presence of iodine catalyst, which temperature which phosphorus will transfer to red phosphorus at nutral environme (for example- in CO_2 or N_2 gas)
A. 300 B. 200
C. 250. ✓ D. 350





40. The capacitance of conductor is 40F? For which amount of charge the potential difference will be 8v?
A. 33°C B. 31°C
C. 30°C D. 32°C ✓
41. What is the singular form of the word, "Appendices"?
A. Appendic B. Appendice
C. Appendix ✓ D. none of the above
42. The colour of flower is yellow due to which colour particle?
A. Betaxanthine ✓ B. Anthocyanine
C. Betacyanine D. All of the above
43. The melting point of a compound is 100°C which is insoluble in water, but soluble in organic solvent. What kind of bonding is present in it?
A. Metallic B. Ionic
C. Coordinate covalent D. Covalent ✓
44. In order to boil water easily, what will have to do?
A. Low current will have to pass through high resistance.
B. High current will have to pass through low resistance.
C. High current will have to pass through high resistance. ✓
D. High current will have to pass through good conductor wire.
45. Which information is incorrect for facial nerve?
A. Function: helps to salivation and weeping.
B. Source: Medulla oblongata
C. Range: Face, tympanum and lower jaw
D. Nature: Chestal. ✓
46. Which of the following sentence is incorrect for covalent compound?
A. The covalent compounds have different shape.
B. The melting point of covalent compound is very low.
C. Covalent compound is soluble in organic solution
D. Covalent compounds are conductor of electricity. ✓
47. Fill in the gap with the correct form of the verbs/ words to complete the sentence. "Though Bangladesh is blessed with rivers it ... scarcity of drinking water."
A. facing B. face in
C. face D. faces. ✓
48. Which part of the poem "Amar Sonar Bangla" of Rabindranath Tagore is taken as the National Anthem of Bangladesh?
A. Last 10 lines B. First 10 lines. ✓
C. 2nd 10 lines D. First 12 lines
49. Why green tomato turns to red?
A. Chromoplast turns to Chloroplast
B. Chloroplast turns to chromoplast. ✓
C. By dissolving old chloroplast builds new chloroplast
D. none of the above.
50. What is aqua-razia?
A. A mixture of HNO₃ and HCl of 3:1 ratio.
B. A mixture of HCl and H₂SO₄ of 3:1 ratio.
C. A mixture of HCl and HNO₃ of 1:3 ratio.
D. A mixture of HNO₃ and HCl of 1:3 ratio. ✓
51. Gravitation depends on--
A. Mass of two particles. ✓
B. Shape of two particles
C. Nature of medium of two particles
D. Direction of the two particles
52. What is not happened in Oozenesis?
A. The number of ovams produced by Oozenesis is very low.
B. The female gamete of ovam is formed by this process.
C. From one reproductive mother cell one active ovam and three polar body of inactive in oozing is formed.
D. Produced ovam is small, active and active in motion. ✓
53. When 1 kg of CaCO₃ is dissolved into HCl acid, how much amount of CO₂ is formed at S.T.P?
A. 422 B. 222
C. 224. ✓ D. 242
54. One of an electric iron 220 volt and 100 watt is written what its resistance?
A. 48.4. ✓ B. 44.8
C. 60.0 D. 40.0
55. Find out the correct English translation for the following sentence, 'সকাল থেকে তড়ি তড়ি বৃষ্টি হচ্ছে'
A. It is drizzling from morning.
B. It is raining from morning
C. It has been raining from morning
D. It has been drizzling since morning. ✓
56. Which of the following is incorrect for an aerobic respiration?
A. Alcohol or lactic acid is not formed. ✓
B. Piruvic acid is incompletely oxidized
C. Water is not produced
D. Only two ATP is formed
57. ZnSO₄.7H₂O is called?
A. Green vitriole B. Red vitriole
C. Blue vitriole D. White vitriole. ✓
58. What is the unit of moment of inertia?
A. kgm² ✓ B. mgmm²
C. mgcm² D. gmm²





59. Select the best English translation for the following sentence: 'খাবার সময় আমাদের মনের রাখতে হবে যে আমরা শুধু ক্ষুধা নিবৃত্ত করতে বা পেট ভরানোর জন্য খাই না।'
A. While we eat food, we should bear in mind that we not eat just to satisfies hunger or to fill the belly.
B. While we eat food, we should bear in mind that we do not eat just to satisfy hunger or to fill the belly. ✓
C. While eating food, we should bear in mind that we do not eat just to satisfy hunger or to fill the belly. ✓
D. While eat food, we should bears in mind that we do not eat just to satisfy hunger or to fill the belly.
60. What is the time period of coming malignant malaria fever?
A. 72-100 B. 24-48
C. 48-56 D. 36-48. ✓
61. When dry CuSO_4 is dissolved into water then heat is liberated, because-
A. CuSO_4 is used in different cell.
B. CuSO_4 is an active compound
C. CuSO_4 is a Chemical compound
D. Chemical reaction is held at that time. ✓
62. Which country never was a colony of other countries in their history?
A. Philippines B. Indonesia
C. Malaysia D. Thailand. ✓
63. What is the characteristics of parenchyma?
A. Due to the presence of lignin, cell wall is hard and solid.
B. Cell wall soft and flexible
C. Vacuole is comparatively small. ✓
D. Chloroplast is fully absent
64. The saturated solution of NaCl is called?
A. Cayanite B. Brine. ✓
C. Silvine D. Carnalite
65. What is the property of conservative force?
A. Frictional force is an example of it
B. Any particle, after completing a cycle when returns to its initial position, then work done by the conservative force is zero.
C. The law of conservation of mechanical energy is not applicable for conservative force.
D. Work done by conservative force is zero. ✓
66. A synonym for, "Ascent" is-
A. regress B. further
C. low down D. jump. ✓
67. Which is not the property of cockroach blood?
A. Two kinds of Haemocytes are found: i.e. prohaemocyte and transitional haemocyte. ✓
B. Cockroach blood is colour less
C. The specific gravity of blood is 75-80
D. Blood helps mainly to carry food extract and waste materials.
68. A rifle bullet can penetrate one plank. If the velocity is three multiple how many plank can be penetrated now?
A. 6 B. 9 ✓
C. 8 D. 7
69. Which of the following is not the classification of placentation?
A. Reticulate. ✓ B. Marginals
C. Parytale D. Superficial
70. What is tincture iodine?
A. Iodine in water
B. Iodine in alcohol. ✓
C. Iodine in potassium
D. Iodine in benzene
71. First world war was closed by which year?
A. 1925 B. 1926
C. 1918. ✓ D. 1919
72. Which of the following is incorrect?
A. Conjunction helps to safe eyes from dust
B. Karotic nerve is 12 pairs
C. Auditory nerve is chestal. ✓
D. The frontal region in between cornea and iris remains full of aqueous humor.
73. What is the velocity of sound in vacuum?
A. 332 m/sec
B. 0 ✓
C. 1120ft/sec
D. none of the above
74. Select the best English translation for the following sentence: 'কোন মানুষ একা বাস করতে পারে না।'
A. None can live alone.
B. No one can live alone. ✓
C. Nobody can live alone
D. No man can live alone
75. Which is not the characteristics of enzyme?
A. They are not heat sensitive. ✓
B. Engyme is a protein
C. Engymes are like colloides.
D. Its activity is controlled by pH
76. What % of aqueous solution of formal dyhide is called formalinc?
A. 40. ✓ B. 10
C. 20 D. 30
77. A ball is thrown horizontally from the top of a mountain at a speed of 40 ms^{-1} . If the air resistance is absent what will be the speed of the ball after 3 sec?
A. 49.64 ms^{-1} B. 4.946 ms^{-1} . ✓
C. 49.46 ms^{-1} D. 4.964 ms^{-1}
78. Which of the following paracite goes to fetus from mother body by placenta?
A. Cholera B. Rubela. ✓
C. Diptheria D. Titenus





79. What is the percentage of iron in chrome steel?
A. 97% ✓ B. 80%
C. 73% D. 86%
80. Change the following sentence into indirect speech: Amin said, "I have been working since 9 am."
A. Amin said that he is working since 9 am
B. Amin said that he has been working since 9 am.
C. Amin said that he has worked till 9 am
D. Amin said that he had been working since 9 am. ✓
81. The division of nucleus in cell for mitosis is called-
A. Karyocinesis. ✓ B. cytocinesis
C. Amitosis D. Diachinesis
82. What is called heat of combustion?
A. The change of heat energy to combust 1 mole of particle by O₂ at 1 atm pressure. ✓
B. The change of heat energy to combust 1 gm of particle by O₂ at 1 atm pressure.
C. The change of heat energy due to combustion of 1 mole particle in oxygen
D. The change in enthalpy due to combustion by oxygen at 1 atm pressure
83. What is the magnitude of gravitational constant?
A. $6.67 \times 10^{-9} \text{Nm}^2 \text{kg}^{-2}$
B. $6.63 \times 10^{-8} \text{Nm}^2 \text{kg}^{-2}$
C. $6.76 \times 10^{-11} \text{Nm}^2 \text{kg}^{-2}$
D. $6.67 \times 10^{-11} \text{Nm}^2 \text{kg}^{-2}$ ✓
84. "Cold Water Fall" is in which district of Bangladesh?
A. Moulavibazar B. Coxsbazar. ✓
C. Chittagong D. Sylhet
85. Which is the example of alive element, producer of an ecosystem?
A. Bird B. Spirogyra. ✓
C. Cockle D. Small fish
86. Fill in the blanks using word that best completes the sentence: "If she had studied harder....."
A. She would have do well.
B. She would do well.
C. She will have done well
D. She would have done well. ✓
87. Which is correct for fermentation?
A. Different enzymes created in cell directly take part in reaction.
B. It is held inside the cell.
C. Internal glucose of body is used.
D. Fermentation process in an anaerobic process. ✓
88. Which is the suitable indication for the first point of titration between weak acid and strong base?
A. Methyl red B. Methyl orange
C. Methyl blue D. Phenolphthalein ✓
89. "Nasaus" is the capital of which group of island?
A. Phlsac B. Nicobar
C. Madgaskar D. Bahama. ✓
90. Which of the following is not a stage of four stages of entamoeba histolytica?
A. Metastile B. Trophozoite
C. Chrlptozolte. ✓ D. Covered
91. Which molecular structure is applicable for ammonia?
A. Tetrahedral B. Three angled pyramid ✓
C. V- Shaped D. Triangular shaped
92. In a river velocity of stream is 5 km h⁻¹ and velocity of a boat is 10kmh⁻¹. By making which angle if a boat start to reach the opposite side of the river directly?
A. 150 B. 100
C. 120. ✓ D. 130
93. The antonym for 'dull' is
A. thrilling B. monotonous
C. interesting D. experiencing. ✓
94. Which fungus is the source of antibiotic teramicine?
A. Stereptomycetes aurcofaciens
B. Stereptomycetes venezuelae
C. Steroptemycetes rimosus. ✓
D. Penecelium notatum
95. The volume of a certain mass of oxygen gas is 3.15 litre at constant temperature and 1 atm pressure. The pressure of this O₂ gas is increased upto 2.50 atm. What will be the volume of that gas?
A. 2.16lt. B. 1.26lt. ✓
C. 1.62lt. D. 6.21lt.
96. What is the function of golgae body?
A. Take part in metabolism of lipid
B. Take part in different metabolism functions ✓
C. Control the cell division
D. Formation of ATP
97. Which material is not destroyed by the sunshine or water for many days?
A. Plastic ✓ B. Wood
C. Iron D. glass
98. What is the magnitude of Unlvesal gas constant R?
A. 8.13 KJ⁻¹mol⁻¹ B. 8.31 JK⁻¹mol⁻¹ ✓
C. 8.13 JK⁻¹mol⁻¹ D. 8.31 KJ⁻¹mol⁻¹
99. Choose the correct word/words to complete the following sentence: "You need not... the secret from me."
A. hold bark. ✓ B. held on
C. hold off D. held in
100. Which team is in the top of world ranking by FIFA at present?
A. Italy B. Argentina
C. Brazil. ✓ D. Germany

