

ENGLISH

Complete the sentences by choosing the most appropriate word, from the given lettered choices (A to D) below each.

1. Did Mr. Fahim _____ the reference book from the school library?
A. loan
B. borrow
C. lend
D. sent
2. The _____ of the new hospital will start next month.
A. constructive
B. construction
C. construct
D. constructed
3. Timid by nature, the doctor, who was alone in his house, was frightened _____.
A. out of wits
B. out at his wits
C. at his wits end
D. out of his wits
4. Ahmed's energy was unbounded; his resourcefulness inexhaustible; and his equanimity in the face of danger almost _____.
A. unreasonable
B. uncanny
C. natural
D. false

5. _____ from the campaigns have been used to buy medical supplies, food and educational materials.

A. Revenue
B. Return
C. Proceed
D. Earnings

Choose the lettered word or phrase that is most nearly opposite in meaning to the word in capital letters.

6. CONCISE:

A. short
B. lengthy
C. brief
D. to the point

7. AFFINITY:

A. alliance
B. liking
C. sympathy
D. attraction
E. dislike

Four lettered pairs (A to D) follow a related pair of words given in capitals. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair in capitals.

8. KERNEL: NUT::

A. yolk: egg
B. grape: raisin
C. flour: bread
D. soil: seed



9. TACTILE: TOUCH::

- A. audible: volume
- B. nasal: smell
- C. sensitive: feeling
- D. visible: sight

10. ANALGESIC: PAIN::

- A. antiseptic: cleanliness
- B. tranquilizer: anxiety
- C. sedative: sleep
- D. antibiotic: medicine

PHYSICS

11. A force of 200 N acts on a body of mass 20 kg. The force accelerates the body from rest until it attains a velocity of 50 ms^{-1} . Through what distance the force acts?

- A. 120 m
- B. 125 m
- C. 130 m
- D. 145 m

12. The number of perpendicular components of a force in cartesian co-ordinate system are:

- A. 1
- B. 2
- C. 3
- D. 4

13. Mass of earth can be calculated on the _____ law.

- A. Newton's second law of motion
- B. Newton's law of gravitation
- C. Coulomb's law
- D. Ampere's law

14. A body is said to be in neutral equilibrium, if its centre of gravity:

- A. is at its highest position
- B. is at its lowest position
- C. maintains its height after being displaced
- D. is situated at its bottom

15. Fossil fuels energy includes:

- A. Solar energy
- B. Wind
- C. Coal, petrol and gas
- D. Hydro-electric

16. A car weighing 12 kN has speed of 20 ms^{-1} take $g=10\text{m/s}^2$. Its kinetic energy is:

- A. 241 kJ
- B. 245 kJ
- C. 240 kJ
- D. 246 kJ

17. A body of mass 50 kg is raised to a height of 3 m take $g=10\text{m/s}^2$. What is its potential energy?

- A. 1100 J
- B. 1400 J
- C. 1600 J
- D. 1500 J

18. A force of 100 N is applied perpendicularly on a spanner at a distance of 10 cm from a nut. The torque produced by the force is:

- A. 5 Nm
- B. 6 Nm
- C. 10 Nm
- D. 50 Nm



19. The minimum number of forces that can be added using head to tail rule are:
- 2
 - 3
 - 4
 - 5
20. The distance between the centers of the spheres is 0.5 m. Then the gravitation force of attraction between two spheres each of mass 1000 kg is:
- 3.57×10^{-4} N
 - 4.31×10^{-4} N
 - 5.61×10^{-4} N
 - 2.67×10^{-4} N
21. Water has maximum density at:
- 0°C
 - 4°C
 - 37°C
 - 100°C
22. In the Einstein's mass energy equation, 'c' is the:
- Speed of sound
 - Speed of electron
 - Speed of Earth
 - Speed of light
23. A stone of mass 500g strikes the ground with a velocity of 20 ms^{-1} . How much is the kinetic energy of the stone at the time it strikes the ground?
- 110 J
 - 100 J
 - 115 J
 - 150 J
24. "The rate of change in momentum is equal to applied force", this statement is called:
- Boyle's law
 - Ohm's law
 - Newton's second law of motion
 - Coulomb's law
25. Two equal but unlike parallel forces having different line of action producing rotation, defines:
- A Torque
 - A Couple
 - Equilibrium
 - Neutral
26. The rate of displacement is called:
- Acceleration
 - Velocity
 - Speed
 - Force
27. A body is said to be in equilibrium, when its:
- acceleration is uniform
 - speed is uniform
 - speed and acceleration are uniform
 - acceleration is zero
28. A man has pulled a cart through 35 m applying a force of 300 N. The work done by the man is:
- 10400 J
 - 10600 J
 - 10500 J
 - 10700 J



29. Normal human body temperature is:

- A. 15°C
- B. 37°C
- C. 99.6°C
- D. 98.6°C

30. Which is not a unit of power?

- A. Horse power
- B. British thermal unit
- C. Watt
- D. Newton-meter

If the mass of mars is 6.42×10^{23}

31. kg, and its radius is 3370 km.

Then the acceleration due to gravity on the surface of the mars is:

- A. 3.77 ms⁻²
- B. 4.77 ms⁻²
- C. 8.71 ms⁻²
- D. 9.73 ms⁻²

32. Twinkling of stars, formation of mirage are due to:

- A. Diffraction
- B. Refraction only
- C. Total internal reflection
- D. Reflection only

33. The numerical value of universal constant of gravitation in SI units is:

- A. $6.683 \times 10^{-11} \text{ Nm}^2 \text{ kg}^{-2}$
- B. $6.673 \times 10^{-11} \text{ Nm}^2 \text{ kg}^{-2}$
- C. $5.673 \times 10^{-11} \text{ Nm}^2 \text{ kg}^{-2}$
- D. $6.3 \times 10^{-11} \text{ Nm}^2 \text{ kg}^{-2}$

34. The arrangement used for stepping up and stepping down the voltage is known as:

- A. Voltmeter
- B. Galvanometer
- C. Ammeter
- D. Transformer

35. A force is acting on a body making an angle of 30° with the horizontal. The horizontal component of the force is 20 N. The force is:

- A. 26.9 N
- B. 24.8 N
- C. 43.9 N
- D. 23.1 N

36. The unit capacity of capacitor is:

- A. Newton
- B. Joule
- C. Ampere
- D. Farad

37. The reciprocal of frequency is called:

- A. Wave length (λ)
- B. Time period (T)
- C. Compression
- D. Anti-node

38. A couple is formed by:

- A. two forces perpendicular two each other
- B. two like parallel forces
- C. two equal and opposite forces not in the same line of action
- D. two equal and opposite forces in the same line



39. A block weighing 20 N is lifted 6 m vertically upward. The potential energy stored in it is:

- A. 120 J
- B. 115 J
- C. 125 J
- D. 110 J

40. Racing cars are made stable by:

- A. increasing their speed
- B. decreasing their mass
- C. increasing their mass
- D. lowering their centre of gravity

CHEMISTRY

41. The most suitable mode chemical reaction for an atom having electronic configuration of $4d^{10}, 5s^2, 5p^5$, is :

- A. Redox reaction
- B. Substitution reaction
- C. Addition reaction
- D. Endothermic reaction

42. The most stable electronic configuration for Chromium atom, can be proposed as:

- A. $3d^5, 5s^2$
- B. $3d^5, 4s^1$
- C. $3d^4, 4s^1$
- D. $3d^5, 4s^2$

43. Salt that can develop a basic solution on dissolution in water, is:

- A. Sodium carbonate
- B. Sodium chloride
- C. Copper sulphate
- D. Ammonium chloride

44. High percentage of ionic character results into the highest value of dipole moment in:

- A. Hydrogen fluoride
- B. Hydrogen chloride
- C. Sulphur dioxide
- D. Hydrogen disulphide

45. Formation of Line spectrum, can be expected from:

- A. Sodium ion
- B. Sodium cation
- C. Sodium chloride molecule
- D. Sodium atom

46. By adding potassium hydroxide into the aqueous solution of potassium chloride, the ionization of potassium chloride will:

- A. remain unchanged
- B. decrease
- C. increase
- D. become unpredictable

47. Passing of hydrogen sulphide through aqueous solution sulphuric acid, will:

- A. not affect the ionization of sulphuric acid
- B. decrease the ionization of sulphuric acid
- C. increase the ionization of sulphuric acid
- D. solidify the hydrogen sulphide gas



48. Lowest value of bond length will be observed in case of bond formation, through:
- dsp^3 -hybridization
 - sp^3 -hybridization
 - sp^2 -hybridization
 - sp -hybridization
49. The highest value of bond dissociation energy is associated with the bond, formed by
- dsp^3 -hybridization
 - sp^3 -hybridization
 - sp^2 -hybridization
 - sp -hybridization
50. Addition of hydrochloric acid into concentrated solution of acetic acid, results in:
- decreased chloride ion concentration
 - decreased acetate ion concentration
 - increased acetate ion concentration
 - increased alkalinity of solution
51. Addition of 500 cm³ of dilute solution of nitric acid into 1000 cm³ of buffer solution having pH = 3, will result into the solution having pH:
- Equal to 7
 - Equal to 5
 - Greater than 5
 - Less than 3
52. Non-directional overlapping of atomic orbitals is entirely responsible for stable molecular geometry of:
- Water
 - Nitrogen
 - Methane
 - Methanol
53. In order to form stable molecular geometry of phosphorous pentachloride, central atom will undergo :
- dsp^3 -hybridization
 - sp^3 -hybridization
 - sp^2 -hybridization
 - sp -hybridization
54. In oxygen molecule, a π -bond is formed by:
- s-s overlap
 - s-p overlap parallel
 - p-p head-on overlap
 - p-p parallel overlap
55. When 2 cm³ dilute solution of sodium hydroxide is added into 100 ml of a buffer solution of pH=8, pH of the resulted solution will:
- Become less than 8
 - Become greater than 8
 - Remain unchanged
 - Become unpredictable



56. Magnesium atom can be made iso-electronic to Neon atom, through the process of:

- A. Sublimation
- B. Neutralization
- C. Configuration
- D. Oxidation

57. Addition of dilute solution of hydrochloric acid into the dilute solution of barium hydroxide, will results:

- A. increased concentration of hydroxide ions
- B. increased concentration of hydrogen ions
- C. formation of white precipitates
- D. formation of black precipitates

58. Specie having the highest number of unpaired electron, is :

- A. Chlorine
- B. Phosphorous
- C. Carbon
- D. Boron

59. A species having an electronic configuration of $2s^2, 2p^5$, will most probably will undergo a/an:

- A. Endergonic reaction
- B. Exergonic reaction
- C. Substitution reaction
- D. Addition reaction

60. In nitrogen molecule, the very first bond is generally formed by :

- A. s-s overlap
- B. s-p overlap
- C. p-p head-on overlap
- D. p-p parallel overlap

61. Paramagnetic behavior of substances, is mainly dependent upon the presence of :

- A. Degenerate atomic orbitals
- B. Degenerate molecular orbitals
- C. Unpaired electrons
- D. High energy electrons

62. Energy of an electron can be predicted by the useful information provided by:

- A. Magnetic quantum number
- B. Spin quantum number
- C. Azimuthal quantum number
- D. Principal quantum number

63. Primary alcohol of choice to form Iodoform through haloform reaction mechanism, is:

- A. Methanol
- B. Ethanol
- C. Phenol
- D. 2-methyl-2-propanol

64. Degree of ionization of an electrolyte generally decreases, by:

- A. increasing dilution
- B. increasing concentration
- C. increasing temperature
- D. decreasing volume



65. Passing of hydrogen sulphide gas through dilute solution of acetic acid will result into:

- A. decreased ionization of acetic acid
- B. increased ionization of acetic acid
- C. bubbling effervescence in solution
- D. precipitation of hydrogen sulphide

66. For having five degenerate atomic orbitals, an atom must possess the value of Azimuthal quantum number as equal to:

- A. 0
- B. 1
- C. 2
- D. 3

67. In order to form a stable molecular geometry, central atom of aluminium chloride, will undergo:

- A. dsp^3 -hybridization
- B. sp^3 -hybridization
- C. sp^2 -hybridization
- D. sp -hybridization

68. Spherically symmetrical orbital will become the outermost orbital, when two electrons are removed from:

- A. Silicon atom
- B. Sodium ion
- C. Chloride ion
- D. Phosphorous atom

69. Methane molecule has zero dipole moment, mainly because:

- A. Every bond in methane is non-polar
- B. Molecular geometry of methane is tetrahedral
- C. All bond lengths in methane are equal
- D. All bonds in methane are formed by s-s overlap

70. In the presence of a strong electric field, spectral line of an atom will split up producing:

- A. Photoelectric effect
- B. Zeeman's effect
- C. Deterioration effect
- D. Stark effect

BOTANY & ZOOLOGY

71. Which of the following has a clitellum?

- A. Earthworm
- B. Neries
- C. Cockroach
- D. Flatworm

72. Double fertilization in angiosperm was discovered by:

- A. Leeuwenhoek
- B. Strasburger
- C. Hofmeister
- D. Nawaschin S.G.

73. Ringworm disease in man is caused by:

- A. Trichosporon
- B. Aspergillus
- C. Sporobolomyces
- D. Microsporium



74. The common phase between aerobic and anaerobic respiration is called:

- A. Tricarboxylic acid cycle
- B. Oxidative phosphorylation
- C. Embden Meyerhof-Parnas pathway or Glycolysis
- D. Krebs's cycle

75. 4th ventricle is present in:

- A. Optic lobes
- B. Diencephalon
- C. Medulla oblongata
- D. Brainstem structure

76. Phyllode is a modified:

- A. Leaf
- B. Petiole
- C. Stem
- D. Branch

77. The cauliflower used as a vegetable is:

- A. A bunch of fertile flowers
- B. An undifferentiated compaction of leaves
- C. A fleshy inflorescence
- D. None of the above

78. Which one factor has led to some cichlid extinction in the lake:

- A. Over fishing
- B. Agricultural run off
- C. Waste
- D. All of the above

79. The Pellicle is present in:

- A. Amoeba Verrucosa
- B. Amoeba Proteus
- C. Amoeba Dubia
- D. Phylum Sarcodina

80. Which one is the most threatened area on the earth for (wild life):

- A. Sub-tropical rain forest
- B. Tropical rain forest
- C. Antarctica forest
- D. Both A and B

81. Technique of producing a cell line whose members contain identical copies of desired genes is called

- A. Gene therapy
- B. Gene cloning
- C. All of the above
- D. None of the above

82. Silverfish is included in;

- A. Amphibian
- B. Echinodermata
- C. Arthropods
- D. Fishes

83. In our expiratory air, oxygen content is around:

- A. 4%
- B. 20%
- C. 25%
- D. 16%



84. A facultative parasite is:

- A. An obligate saprophyte
- B. Parasitic but can live as saprophyte
- C. Normally a saprophyte
- D. Normally a saprophyte but can live as parasite under favorable conditions

85. A cavity formed by the disintegration of protoxylem tracheids in Equisetum stem is called:

- A. Valledupar canal
- B. Cranial canal
- C. Central cavity
- D. Air chamber

86. Which one of the following processes uses a protein to help a substance move across the membrane from high to low concentration of that substance :

- A. Osmosis
- B. Active transport
- C. Simple diffusion
- D. Facilitated diffusion

87. In frog the vein brings blood from the tongue is:

- A. Lingual
- B. Cutaneous
- C. Anterior abdominal
- D. Azygos

88. Spores are liberated from the Sporogonium only by the decay of gametophyte in:

- A. Marchantia
- B. Riccia
- C. Funaria
- D. Anthoceros

89. Extra-chromosomal hereditary determinants are known as:

- A. Plastids
- B. Ribo-somes
- C. Plasmids
- D. None of above

90. The ATP is formed in:

- A. Ribosomes
- B. Golgi bodies
- C. Mitochondria
- D. None of the above

91. Which of the following algae is responsible for the red tide?

- A. Gonyaulax
- B. Polysiphonia nigrescens
- C. Cephaleuros
- D. Fucus furcatus

92. Egg-laying mammals belong to which of the following group :

- A. Placentals
- B. Marsupials
- C. Monotremes
- D. Cetacea



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93. Flexing or bending of our arm is done by:

- A. Biceps
- B. Triceps
- C. Paralysis
- D. Paresis

94. A pyrimidine that is absent in RNA is:

- A. Uracil
- B. Thymine
- C. Cytosine
- D. Adenine

95. Only one ovule is present in the ovary of _____ family.

- A. Compositae
- B. Labiatae
- C. Solanaceae
- D. None of the above

96. Cortex develops from:

- A. Dermatogens
- B. Periblem
- C. Pleurome
- D. None of the above

97. Nourishing tissue surrounding the spore producing tissue in a young sporangium is:

- A. Archesporium
- B. Tapetum
- C. Spore mother cells
- D. Sporocytes

98. The phenomenon of 'sulphur shower' is found in:

- A. Mosses
- B. Cycas
- C. Dryopteris
- D. Pinus

99. Leaf gaps and leaf trances are seen in the rhizome of:

- A. Psilotum
- B. Ophioglossum
- C. Pteris
- D. Marsilea

100. In which portion of the cell ribosomes are manufactured ;

- A. Golgi apparatus
- B. Lysosomes
- C. Nucleolus
- D. Pores



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1 B	21 B	41 B	61 C	81 B
2 B	22 D	42 B	62 D	82 C
3 A	23 B	43 A	63 B	83 A
4 B	24 C	44 A	64 B	84 D
5 A	25 B	45 D	65 D	85 B
6 B	26 B	46 B	66 C	86 D
7 D	27 D	47 C	67 C	87 A
8 B	28 C	48 A	68 A	88 B
9 C	29 D	49 D	69 C	89 C
10 A	30 B	50 B	70 D	90 C
11 B	31 A	51 D	71 A	91 A
12 C	32 B	52 B	72 D	92 C
13 B	33 B	53 A	73 A	93 A
14 C	34 D	54 D	74 C	94 B
15 C	35 D	55 C	75 D	95 A
16 C	36 D	56 D	76 B	96 C
17 D	37 B	57 C	77 C	97 B
18 C	38 C	58 C	78 D	98 D
19 A	39 A	59 D	79 A	99 B
20 D	40 D	60 C	80 B	100 C