

Seat
No.

ENT-26

Total No. of Pages : 14

Shivaji University, Kolhapur
P.G. Entrance Examination, May-2023
M.Sc. Agro Chemicals And Pest Management
Subject Code : 58726

Day and Date : Tuesday, 08-08-2023
Time : 10.30 am To 12.00 noon

Total Marks : 100

Instructions : 1) All questions are compulsory.
2) Each question carries 1 mark.
3) Answers should be marked in the given OMR answer sheet by darkening the appropriate option.
4) Follow the instructions given on OMR sheet.
5) Rough work shall be done on the sheet provided at the end of question paper.

1. Western blot is the technique for blot.
A. DNA
B. RNA
C. Lipid
D. Protein
2.is considered as connecting link between Reptiles and Aves
A. Archaeopteryx
B. Limulus
C. Peripatus
D. Sphenodon
3. Venom of Cobra attacks on system.
A. Respiratory
B. Blood vascular
C. Nervous
D. Lymphatic
4. The number of chromosomes in human body is
A. 42
B. 44
C. 46
D. 45
5. The infective stage of Entamoeba histolytica is.....
A. Trophic form
B. Mature cyst
C. Sporozoite
D. Minuta form.

38. The upward movement of water and salts from root to aerial parts is called
- A. Ascent of sap
B. Formation of sap
C. Lifting of sap
D. Cohesion of sap
39. Stomata are a natural
- A. Cell
B. Pore
C. Guard cell
D. Subsidiary cell
40. Wheat is mainly season crop.
- A. Summer
B. Rainy
C. Rubby
D. Hot
41. Cork cambium is an example of
- A. Lateral meristem
B. Intercalary meristem
C. Apical meristem
D. Apical and intercalary meristem
42. living tissue gives mechanical strength.
- A. Sclerenchyma
B. Xylem
C. Vessels
D. Collenchyma
43. The ability of a pathogen to cause disease is
- A. Pathogenesis
B. pathovar
C. Pathogenicity
D. Parasexualism
44. First living cells were observed by
- A. Crick
B. Leeuwenhoek
C. Okazaki
D. Beadle

45. Karyokinesis means
- A. division of nucleus B. division of cell
C. division of cytoplasm D. division of class
46. 'Law of purity of gametes' is also known as
- A. Law of dominance B. Law of segregation
C. Law of transformation D. Law of independent assortment
47. The phenomenon of osmosis is opposite to that of
- A. Diffusion B. Effusion
C. Affusion D. Coagulation
48. The most active site of protein synthesis is the
- A. Nucleus B. Ribosome
C. Mitochondrion D. Cell sap
49. F1 particles are also called as
- A. Oxyosomes B. Dictyosomes
C. Peroxisomes D. None of the above
50. Soap is.....molecule
- A. Hydrophilic B. Basic hydrophobic
C. Amphipathic D. None of these
51. A biocatalyst is.....
- A. Protein. B. Lipid
C. Carbohydrate D. None of these
52. In paper chromatography paper acts as phase.
- A. Solid
B. Liquid
C. Stationary
D. Support

53. According to Beer-Lamberts Law, the absorbance (A) of the solution is.....
- Directly proportional to wavelength
 - Indirectly proportional to concentration of solution
 - Directly proportional to concentration of solution
 - Directly proportional to transmitted light
54. Aldol condensation is carried out in presence of
- Mild or dilute alkali
 - Concentrated alkali
 - Dilute acid
 - AlCl_3
55. Fermentation is called anaerobic process because it occurs in
- Presence of CO_2
 - Absences of CO_2
 - Presence of O_2
 - Absences of O_2
56. Pharmaceuticals are
- Organic pollutants
 - Biological pollutants
 - Thermal pollutants
 - Sediments
57. Universal solvent is
- Water
 - Liquid SO_2
 - Liquid NH_3
 - Acidic acid
58. Water molecule has distorted tetrahedral structure because it has.....
- One lone pair
 - Two lone pairs
 - Three lone pairs
 - No lone pairs
59. According to Arrhenius, acid is the substance which in aqueous medium gives.....
- H^+
 - OH^-
 - Cl^-
 - O^-
60. Rate determining step is the..... step in the mechanism.
- Fast
 - Very fast
 - Slow
 - Moderately fast

61. Cyclo-octane is
- A. Aromatic
B. Anti-aromatic
C. Non-aromatic
D. Pseudoaromatic
62. Chemical name of washing soda is
- A. Sodium carbonates
B. Sodium hydrogen carbonates
C. Sodium chloride
D. Sodium hydroxide
63. What is S. I. unit of Surface tension?
- A. Dyne/meter
B. Newton/meter
C. Newton-meter
D. Dyne-meter
64. Benzene is.....solvent.
- A. Ionizing
B. Polar
C. protonic
D. Aprotic, non-polar and non-solvating
65. Pure metallic solids are
- A. super conductors
B. good conductors
C. semiconductors
D. insulators
66. Bonding in metals is best explained by
- A. valence bond theory
B. ligand field theory
C. crystal field theory
D. molecular orbital theory
67. In which region of the electromagnetic spectrum does absorption at 600 nm come?
- A. Visible
B. Near-UV
C. Vacuum-UV
D. Infrared
68. In Gas Chromatography gas acts as
- A. Stationary Phase
B. Mobile phase
C. Solvent
D. Solute

99. Lactose is a

A. Monosaccharide

B. Disaccharide

C. Polysaccharide

D. None of these

100. Carbaryl is a.....type of pesticide,

A. Organophosphorus

B. Carbamate

C. Organochlorine

D. Pyrethroid

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