

Seat No.	
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ENT-39
Total No. of Pages : 18

M.Sc. Agro Chemicals and Pest Management
RE-ENTRANCE EXAMINATION-2026
Subject Code : 58726

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Day and Date : Wednesday, 24-06-2026
Time : 04.30 p.m. to 06.00 p.m.

Total Marks : 100

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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.
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1. Concept of superconductivity was introduced by

- | | |
|-------------|---------------------|
| A. Pauling | B. Hund |
| C. H. bethe | D. Kammerling onnes |

2. In metallic solid, lattice points are accommodated by.....

- | | |
|--------------|---------------|
| A. molecules | B. metal ions |
| C. atoms | D. ions |

3. Substance with zero resistance is known as

- | | |
|------------------|-------------------|
| A. conductor | B. superconductor |
| C. semiconductor | D. insulator |

4. Crude oil can be transferred in to petrol by.....

- | | |
|-----------------|------------------|
| A. Filtration | B. Sedimentation |
| C. Distillation | D. Reduction |

12. Fermentation is called anaerobic process because it occurs in.....
- A. Presence of CO_2 B. Absences of CO_2
C. Presence of O_2 D. Absences of O_2
13. Wittig reaction is used to convert carbonyl compound into.....
- A. Ester B. Amine
C. Olefin D. Acid
14. According to Beer-Lamberts Law, the absorbance (A) of the solution is....
- A. Directly proportional to wavelength
B. Indirectly proportional to concentration of solution.
C. Directly proportional to concentration of solution
D. Directly proportional to transmitted light
15. Water molecule has distorted tetrahedral structure because it has.....
- A. One lone pair B. Three lone pairs
C. Two lone pairs D. No lone pairs
16. According to Arrhenius, acid is the substance which in aqueous medium gives.....
- A. H^+ B. OH^-
C. Cl^- D. O^-
17. Which of the following compounds is not aromatic?
- A. Naphthalene B. Benzene
C. Phenol D. Cyclohexane
18. Crude oil can be transferred in to petrol
- A. Filtration B. Sedimentation
C. Distillation D. Reduction

19. The colour change property of an acid base indicator depends on
- A. pH of the solution B. Structural rearrangement
C. Ionization of indicator D. All of the above
20. Pearson's principle states
- A. Hard acids prefer borderline bases
- B. Hard acids prefer soft bases
- C. Soft prefers to bind borderline
- D. Hard acids prefer hard bases and soft acids prefer soft bases.
21. In flame photometry the measurement of analysis..... is used for quantitative
- A. wavelength B. Intensity
C. Velocity D. Frequency
22. Pheromone is secreted by mouth in lepidopteron insects.
- A. Male B. Female
C. Both above D. None above
23. Soft metal adsorbs Bases.
- A. Hard B. Soft
C. Borderline D. Both hard and soft
24. o-Nitrophenol is separated from p-nitrophenol from the reaction mixture....
- A. Azeotropic Distillation B. Steam Distillation
C. Fractional Distillation D. Distillation Distillation
25. The house fly belong to the order
- A. Lepidoptera B. Coleoptera
C. Diptera D. Orthoptera

60. The enzyme catalase is found in
- A. Peroxisomes B. Glyoxysomes
C. Mitochondria D. Lysosomes
61. Energy supplied to metabolic processes of the cell is supplied by
molecules
- A. AMP B. ATP
C. Sugar D. Protein
62. DNA doubles during
- A. Interphase B. Anaphase
C. Prophase D. Telophase
63. Wind is important factor.
- A. Edaphic B. Biotic
C. Climatic D. Physiographic
64. The study of soil science is called
- A. Ecology B. Pedology
C. Phycology D. Mycology
65. Manoxylic wood is characteristic of
- A. Coniferales B. Gnetales
C. Cycadales D. Saginellales
66. When seed germinatesgrows vertically to form shoot system
- A. Radicle B. Hypocotyls region
C. Plumule D. Tuber

73. Which is the fungus causes blast disease on rice?
- A. *Pyricularia oryzae* B. *Cercospora oryzae*
C. *Alternaria oryzae* D. *Fusarium oryzae*
74. Water blooms are formed by.....
- A. Lemna B. Hydrilla
C. Water hyacinth D. Planktonic algae
75. Which of the following reagent converts an acid into alcohol Lindlar,s catalyst is
- A. LiAlH_4 B. Pd/BaSO_4
C. ZnCl_2 D. Aluminum isopropoxide in isopropanol
76. Methyl orange is a.....
- A. Triphenyl methane dye B. Azodye
C. Quinone dye D. Nitro dye
77. Internal reference used in NMR is.....
- A. CHCl_3 B. Acetone
C. Ethyl acetate D. Tetra-methyl silane
78. The compound which shows M+2 peak of 1/3 intensity as compared to M in its mass spectrum. This indicates that it contains
- A. Chlorine B. Bromine
C. Fluorine D. Phosphorus
79. Endosulphan is used as a.....
- A. Insecticide B. Plant growth regulator
C. Herbicide D. Fumigant

80. The starting materials for polyamide fiber are.....
- A. Phenol and formaldehyde
 - B. Adipic acid & Hexamine
 - C. Dimethyl terephthalate and ethylene glycol
 - D. Hexamine & ethylene glycol
81. Which of the following compounds shows a singlet, triplet and quartet in NMR?
- A. Acetone
 - B. Ethyl methyl ketone
 - C. Ethyl benzoate
 - D. Ethanol
82. In UV the wavelength of absorption.....
- A. 200-400nm
 - B. 400-800nm
 - C. 100-200nm
 - D. All the above
83. NMR spectra are observed in region
- A. Radiofrequency
 - B. Microwave
 - C. UV-Visible
 - D. X-ray
84. Which of the following compounds is not aromatic?
- A. Naphthalene
 - B. Benzene
 - C. Phenol
 - D. cyclohexane
85. Rectified spirit contains.....
- A. 70% ethanol
 - B. 90% ethanol
 - C. 96% ethanol
 - D. 100% ethanol

86. The carbaryl is a.....

- A. Carbamate Insecticide
- B. Organophosphorus insecticide
- C. Insecticide
- D. Pyrethroid

87. Indolacetic acid is a.....

- A. Fungicide
- B. Insecticide
- C. Herbicide
- D. Plant growth regulator

88. Cyclo-octane is.....

- A. Aromatic
- B. Anti-aromatic
- C. Non-aromatic
- D. Pseudoaromatic

89. Chemical name of washing soda is

- A. Sodium carbonates
- B. Sodium chloride
- C. Sodium hydrogen carbonates
- D. Sodium hydroxide

90. Universal solvent is.....

- A. Liquid NH_3
- B. Liquid SO_2
- C. Water
- D. Acetic acid

91. Pure metallic solids are.....

- A. Super conductors
- B. Good conductors
- C. Semiconductors
- D. Insulators

92. Bonding in metals is best explained by.....
- A. Valence bond theory
 - B. Crystal field theory
 - C. Ligand field theory
 - D. Molecular orbital theory
93. MIC is required for the synthesis of.....
- A. IAA
 - B. Carbaryl
 - C. Monocrotophos
 - D. Endosulfan
94. Ammonia is used in bulk for the production of
- A. Food items
 - B. Soap
 - C. Fertilizer
 - D. Pesticides
95. The distance between the centers of the peaks of doublet is called as?
- A. Coupling constant
 - B. Spin constant
 - C. Spin-spin coupling
 - D. Chemical shift
96. Calomel electrode is reversible with respect to ion.
- A. Chloride
 - B. Bromide
 - C. Iodide
 - D. Fluoride
97. is an anti-malarial drug
- A. Phenobarbitone
 - B. Paludrine
 - C. Penicillin-G
 - D. Sulpha drugs.
98. Which of the following liquids forms completely soluble mixture?
- A. phenol and water
 - B. Benzene and water
 - C. Ethanol and water
 - D. All of the above

99. During photosynthesis acts as photosensitizer.

A. Chlorophyll

B. Water

C. Carbon dioxide

D. Glucose

100. The wavenumber of a transition is 2000 cm^{-1} . In what part of the electromagnetic spectrum does this come?

A. Radiowave

B. Microwave

C. Infrared

D. Ultraviolet-visible



- Rough Work -

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