PREVIOUS YEAR PAPER

UP PGT 2021 — Biology (Series A)

UP PGT · 17 or 18 August 2021

125 questions · +3.4 for a correct answer, −0 for a wrong one · 120 minutes

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Questions from the U.P. Secondary Education Services Selection Board's paper of 17 or 18 August 2021. Each question is followed by its answer, and the answer key is repeated on the last page.

Take it as a timed practice test: exambharo.com/up-pgt/previous-year-papers/up-pgt-2021-biology-series-a/

Biology

1. Match List – I with List – II and choose the correct answer using the codes given below :
List – I (Animal association) — List – II (Definition)
a. Cooperation — 1. Close association in which one species benefits
b. Mutualism — 2. Loose association in which both species benefit
c. Amensalism — 3. Close association in which both species benefit
d. Commensalism — 4. One species inhibits the growth of another species but does not feed on it
Codes : a b c d

(a) 2 3 4 1
(b) 4 2 3 1
(c) 1 3 2 4
(d) 3 2 4 1

Answer: (a)

2. Which one of the following stem shows sec / growth and vascular bundles are leptocentric ?

(a) Maize
(b) Cynodon
(c) Dracaena
(d) Wheat

Answer: (c)

3. Which stage of Puccinia is found on its alternative host ?

(a) Uredospore
(b) Teleutospore
(c) Basidiospore
(d) Pycnidiospore

Answer: (d)

4. In which of the following viruses, DNA is the genetic material ?

(a) TMV
(b) MS2
(c) T_2 phage
(d) None of the above

Answer: (c)

5. Line of growth found on the shell of Pila is called
   (a) Spere
   (b) Columella
   (c) Sutures
   (d) Varices
   Answer: (d)

6. Reindeer moss is
   (a) Cetraria islandica
   (b) Cladonia rangifera
   (c) Parmelia
   (d) Stone mushroom
   Answer: (b)

7. Which of the following statement is not true regarding the synthesis of proteins ?
   (a) It requires m-RNA, t-RNA, ribosomes, amino acids, energy and enzymes
   (b) Activated amino acids attach to t-RNA
   (c) m-RNA is read in 5′→3′ direction
   (d) Polypeptide synthesis proceeds from C-terminal to N-terminal end
   Answer: (d)

8. How is it that, Taenia escapes digestion by the enz es of the host, it is due to the presence of
   (a) acid mucopolysaccharides
   (b) alkaline mucopolysaccharides
   (c) acid lipopolysaccharides
   (d) alkaline lipopolysaccharides
   Answer: (b)

9. Which one is not a fossil type ?
   (a) Coal ball
   (b) Amber
   (c) Compaction
   (d) Basalt
   Answer: (d)

10. The genetic code is called degenerate code because
   (a) One codon has many meanings
   (b) More than one codon has the same meaning
   (c) One codon has one meaning
   (d) There are 64 codons present
   Answer: (b)

11. Which of the following equations represents the central dogma of molecular biology ?
    (a) DNA → RNA → Protein
    (b) RNA → Protein → Enzyme
    (c) Protein → RNA → DNA
    (d) DNA → Protein → RNA
    Answer: (a)

12. Which one is correctly paired ?
    (a) Teak – Dipterocarpus
    (b) Sal – Tectona
    (c) Chir – Cedrus
    (d) Sheesham – Dalbergia
    Answer: (d)

13. The new varieties of a species are produced as a result of
    (a) Microevolution
    (b) Macroevolution
    (c) Megaevolution
    (d) Straight line evolution
    Answer: (a)

14. The binomial system of Carolus Linnaeus was dev of which of the following categories ?
    (a) Genus and species
    (b) Class and order
    (c) Phylum and family
    (d) Kingdom and class
    Answer: (c)

15. CH_2=CH_2 is mainly responsible for
    (a) Formation of root hair
    (b) Formation of nodes
    (c) Ripening of fruits
    (d) Formation of internodes
    Answer: (c)

16. Lac insect feeds on which of the following host plant ?
    (a) Butea monosperma
    (b) Zizyphus jujuba
    (c) Cajanus cajan
    (d) All of the above
    Answer: (d)

17. Pinus protects itself from microbial and insect attack through

(a) Thick bark

(b) Dwarf shoots

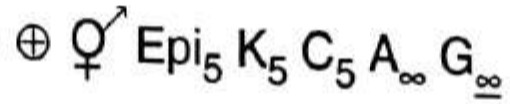
(c) Mycorrhiza

(d) Resin

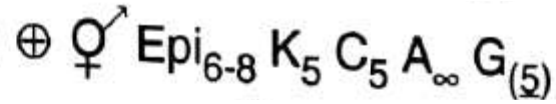
Answer: (d)

18. Which of the following floral formula is of Family Rosaceae ?

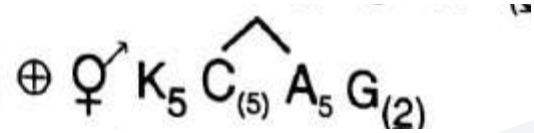
(a)



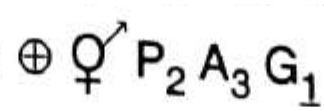
(b)



(c)



(d)



Answer: (a)

19. Which of the following animal is poisonous ?

(a) Hemidactylus

(b) Uromastix

(c) Ornithorhynchus male

(d) Chameleon

Answer: (c)

20. Which of the following fungal groups has septate hyphae and reproduces asexually by budding, conidia and fragmentation ?

(a) Basidiomycotina

(b) Zygomycetes

(c) Chytrids

(d) Glomeromycota

Answer: (a)

21. How many somites are present in Hirudinaria ?
    (a) 32
    (b) 33
    (c) 34
    (d) 35
    Answer: (b)

22. Cauliflower, Cabbage, Knol-khol and Turnip belong to how many genera ?
    (a) One
    (b) Two
    (c) Three
    (d) Four
    Answer: (a)

23. Which of the following is an anadromous fish ?
    (a) Eel
    (b) Carp
    (c) Hilsa
    (d) Goby
    Answer: (c)

24. Which one is not correctly matched ?
    (a) Cotton – Fruit fibre
    (b) Coir – Mesocarp
    (c) Jute – Stem fibre
    (d) Flax – Bast fibre
    Answer: (a)

25. In the Wild Life (Protection) Act, 1972, important wild animals have been placed in
    (a) Two Schedules
    (b) Three Schedules
    (c) Five Schedules
    (d) Six Schedules
    Answer: (c)

26. The teeth are replaced by a horny beak in which of the following ?
    (a) Rhynchocephalia
    (b) Squamata
    (c) Chelonia
    (d) Crocodilia
    Answer: (c)

27. Retort shaped cells are found in

(a) Funaria

(b) Anthoceros

(c) Lycopodium

(d) Sphagnum

Answer: (d)

28. Chapparal occurs in one of the areas

(a) Africa

(b) Siberia

(c) Canada

(d) Mediterranean area

Answer: (d)

29. Regular exercise can increase the size of muscles by 60%. This is mainly the result of an increase in the

(a) Diameter of muscle cells only

(b) Number of muscle cells only

(c) Number of myofibrils within muscle cells only

(d) All of the above

Answer: (d)

30. Chloride secreting cells of fishes are found in the

(a) Gills

(b) Kidneys

(c) Liver

(d) Posterior pituitary

Answer: (a)

31. In which of the following amphibians the fertilized eggs develop in the stomach of the female and little frogs come out of its mouth ?

(a) Salamandra

(b) Rheobatrachus

(c) Ichthyophis ♀

(d) Alytes

Answer: (b)

32. In a dihybrid test cross if parental types exceed the recombination types among the resultant progeny, it is due to

(a) Linkage

(b) Complete linkage

(c) Independent assortment

(d) Crossing over

Answer: (a)

33. Monogenean ectoparasites of fishes are particularly found on their
    (a) Caudal fin
    (b) Gills
    (c) Pectoral fins
    (d) Claspers
    Answer: (b)

34. In Palaemon the hastate plate is found on the _____ side of cardiac stomach.
    (a) dorsal
    (b) lateral
    (c) ventral
    (d) radial
    Answer: (c)

35. Which of the following is not correctly matched ?
    (a) Frog – Telolecithal eggs
    (b) Insect – Centrolecithal eggs
    (c) Mammal – Microlecithal eggs
    (d) Bird – Polylecithal eggs
    Answer: (c)

36. "Sinigrin" is present in the members of family
    (a) Malvaceae
    (b) Rutaceae
    (c) Brassicaceae
    (d) None of these
    Answer: (c)

37. Which of the following enhances the flavour of food ?
    (a) Magnesium carbonate
    (b) Tetrazines
    (c) Nitrous oxide
    (d) Monosodium glutamate
    Answer: (d)

38. The micronucleus of Paramecium is
    (a) diploid
    (b) polyploid
    (c) non-reproductive
    (d) the main source of RNA
    Answer: (a)

39. Copper deficiency leads to
    (a) Exanthema
    (b) Whiptail of cauliflower
    (c) Little leaf condition
    (d) Interveinal chlorosis

    Answer: (a)

40. The term 'Single Cell Protein' (SCP) refers to
    (a) Protein obtained from a single cell
    (b) Protein obtained from the progeny of a single cell
    (c) Protein obtained from the large scale growth of algae, fungi or bacteria
    (d) Viral coat proteins

    Answer: (c)

41. Nitrogenous and metabolic wastes are stored in the
    (a) Amniotic bag
    (b) Allantois
    (c) Yolk sac
    (d) Exocoel

    Answer: (b)

42. The larval life of Bombyx mori lasts for _____ da
    (a) 32
    (b) 42
    (c) 52
    (d) 62

    Answer: —

43. Considering the amount of yolk and its distribution, the eggs of frog are
    (a) Microlecithal and centrolecithal
    (b) Mesolecithal and telolecithal
    (c) Polylecithal and isolecithal
    (d) Mesolecithal and isolecithal

    Answer: (b)

44. At regular intervals the heart beat is reversed in
    (a) Herdmania
    (b) Amphioxus
    (c) Scoliodon
    (d) Uromastix

    Answer: (a)

45. The sorus of Dryopteris is
(a) Mixed type
(b) Simple type
(c) Gradate type
(d) None of these
Answer: (a)

46. Which one of the following gymnosperm phyla produces motile sperms, bears ovulate and microsporangiate cones on separate plants and has fleshy, coated seeds ?
(a) Coniferophyta
(b) Cycadophyta
(c) Gnetophyta
(d) None
Answer: (b)

47. Phages which show lysogenic cycle are called
(a) Temperate phage
(b) Lytic phage
(c) Virulent phage
(d) None of the above
Answer: (a)

48. The origin and diversification of Angiosperms wa[illegible]uring which geological period ?
(a) Permian
(b) Triassic
(c) Jurassic
(d) Cretaceous
Answer: (d)

49. Of the following which cestode is protandrously hermaphrodite
(a) Diphylobothrium
(b) Dipylidium
(c) Taenia
(d) Echinococcus
Answer: (c)

50. The Valamen of orchid root is derived from the
(a) Phellogen of root
(b) Plerome of root
(c) Dermatogen of root
(d) Periblem of root
Answer: (c)

51. Consider the following statements regarding AIDS
1. It is caused by retrovirus, HIV
2. It replicates within T_4 lymphocytes
3. ELISA test detects the presence of virus particles
4. It may remain dormant for six years
Of these statements :

(a) 1, 2 and 3 are correct

(b) 2, 3 and 4 are correct

(c) 1, 3 and 4 are correct

(d) 1, 2 and 4 are correct

Answer: (d)

52. Which of the following statement is true regarding the 3-pairs of appendages found in the nauplius larva ?

(a) Antennules and antennae are biramus

(b) Only antennules are biramus

(c) Only mandibles are biramus

(d) Both antennae and mandibles are biramus

Answer: (d)

53. Which of the following proenzyme is first converted to active enzyme by enterokinase and then by autocatalysis ?

(a) Pepsinogen

(b) Chymotrypsinogen

(c) Procarboxypeptidase

(d) Trypsinogen

Answer: (d)

54. The antitranspirant is/are

(a) PMA (Phenyl Mercuric Acetate)

(b) IAA (Indole Acetic Acid)

(c) MH (Mallic Hydrazide)

(d) All above

Answer: (a)

55. Which of the following stimulates the exocrine pancreas ?

(a) Secretin and pancreozymin

(b) Enterocrinin

(c) Insulin

(d) Glucagon

Answer: (a)

56. Diversity of the habitats over the total landscape or geographical area is called
(a) Alpha diversity
(b) Beta diversity
(c) Gamma diversity
(d) None of the above

Answer: (c)

57. Which statement does not explain the features of cycas ?
(a) Two kind of leaves
(b) Monoecious
(c) Wedge shaped microsporophyll
(d) Mycorrhizal association in roots

Answer: —

58. In incomplete dominance
(a) The phenotypic and genotypic ratios are same in F_1 generation
(b) The phenotypic and genotypic ratios are same in F_2 generation
(c) The phenotypic ratio and genotypic ratio are different in the F_1 generation
(d) The phenotypic and genotypic ratios are different in F_2 generation

Answer: (b)

59. Which of the following pair is not correctly matched ?
(a) Cnidaria – Radially symmetrical, tissue level organization
(b) Platyhelminthes – Unsegmented, acoelomate
(c) Nematoda – Unsegmented, pseudocoelomate
(d) Arthropoda – Metameric, coelomate

Answer: (d)

60. Epigynous flowers are found in
(a) Cucurbita
(b) Argemone
(c) Malva
(d) Solanum

Answer: (a)

61. Filaria is diagnosed by the presence of microfilariae in the human blood. For this, the blood sample is taken
(a) just after sunrise
(b) any time of the day
(c) between 4:30 and 6:30 in the evening
(d) between 10:00 p.m. and 4:00 a.m in the night

Answer: (d)

62. Match List – I with List – II and choose the correct answer using the codes given below :
List – I — List – II
a. Neutrophils — 1. Production of antibodies
b. Eosinophils — 2. Kidney-shaped nucleus
c. Monocytes — 3. Diapedesis
d. Lymphocytes — 4. Number increases in allergy
Codes : a b c d

(a) 1 4 2 3

(b) 4 2 3 1

(c) 3 2 1 4

(d) 3 4 2 1

Answer: (d)

63. If an actin inhibiting drug is injected into an amoeba, its movement will

(a) stop instantly

(b) become faster

(c) become slower

(d) remain unaffected

Answer: (a)

64. In certain plants, the mechanism where timing of anther dehiscence and stigma receptivity do not coincide to avoid self-pollination is called

(a) Dichogamy

(b) Herkogamy

(c) Monoecy

(d) Dioecy

Answer: (a)

65. In Funaria, calyptra is derived from

(a) Antheridium

(b) Columella

(c) Capsule

(d) Archegonium

Answer: (d)

66. The growth of Obelia colony is of _____ type.

(a) bipodal

(b) biramous

(c) sympodial

(d) racemose

Answer: (c)

67. Chief function of Pedicellariae in star fish is

(a) Respiration
(b) Capturing
(c) Cleansing
(d) Feeding

Answer: (c)

68. Birds are capable of removing during inspiration which of the following amount of oxygen from the air ?

(a) 20%
(b) 40%
(c) 90%
(d) 100%

Answer: (c)

69. Alluvial soils are mostly found in which region ?

(a) Northern India
(b) Eastern India
(c) Southern India
(d) Gangetic Jamuna plains

Answer: (d)

70. Which of the snakes found in India is non-poisonous ?

(a) King Cobra
(b) Banded Krait
(c) Boa constrictor
(d) Brown Himalayan viper

Answer: (c)

71. Trypanosoma is polymorphic. Which of its following stages lacks a flagellum ?

(a) Leptomonad
(b) Crithidial
(c) Trypanosome
(d) Leishmanial

Answer: (d)

72. Cleavage in Amphioxus is

(a) Holoblastic and equal
(b) Holoblastic and unequal
(c) Meroblastic and superficial
(d) Meroblastic and discoidal

Answer: (a)

73. In prophase of meiosis chaismata are due to
    (a) Mutation
    (b) Crossing over
    (c) Translocation
    (d) Inversion
    Answer: (b)

74. Centripetal xylem is present in
    (a) Dicot root
    (b) Dicot stem
    (c) Monocot stem
    (d) Branches of stem
    Answer: (a)

75. Which of the following statement is not true regarding cytochrome oxidase ?
    (a) It is found in mitochondria
    (b) It transfers electrons to oxygen
    (c) It contains only copper
    (d) It contains both copper and iron
    Answer: (c)

76. PCO cycle is also known as
    (a) C_2 cycle
    (b) C_3 cycle
    (c) C_4 cycle
    (d) CAM cycle
    Answer: (a)

77. $h' = 0.61\lambda/(n' \sin\theta)$ is the formula for
    (a) Resolving power
    (b) Kinetic energy
    (c) Light energy
    (d) Thermodynamics
    Answer: (a)

78. Protein Keratin is not found in the epidermis of
    (a) Fish
    (b) Reptile
    (c) Bird
    (d) Mammal
    Answer: (a)

79. Which of the following immunoglobulin molecules is largest ?
(a) IgA
(b) IgD
(c) IgM
(d) IgE
Answer: (c)

80. Horse-shoe shaped ovule is
(a) Campylotropous
(b) Hemianatropous
(c) Amphitropous
(d) Circinotropous
Answer: (c)

81. Which of the following is not correctly matched ?
(a) Translocation – Interchromosomal rearrangement
(b) Epistatic gene – Stimulating the action of another gene
(c) Codominance – A character controlled by two genes
(d) Neomorphs – Produce a phenotype different from that of wild gene
Answer: (b)

82. Seeds having longest viability belong to
(a) Chenopodium
(b) Quercus
(c) Lupinus
(d) Eucalyptus
Answer: (c)

83. Which of the following toxicant is found in the hydrosphere ?
(a) Nitrous oxide
(b) Detergents
(c) Sulphur dioxide
(d) Ozone
Answer: (b)

84. A tumour like tissue of thin walled cells developing over the wounds is called
(a) Tyloses
(b) Gall
(c) Callose
(d) Callus
Answer: (d)

85. Which one is an important constituent of renin-angiotensinogen-aldosterone system ?
(a) JGA cells
(b) Plasma cells
(c) Macular cells
(d) Erythropoietin
Answer: (a)

86. A sample of ten people have the following body temperature in °C : 36, 34, 41, 39, 37, 43, 36, 37, 41 and 39. Which of the following represents the standard deviation ?
(a) 2.65 °C
(b) 2.90 °C
(c) 3.10 °C
(d) 3.50 °C
Answer: (a)

87. The stain orcein is obtained from the thallus of
(a) Roccella sp.
(b) Cladonia sp.
(c) Usnea sp.
(d) Parmelia sp.
Answer: (a)

88. Which one of the following is a food borne toxin ?
(a) Tetanus toxin
(b) Botulinum toxin
(c) Cholera toxin
(d) Diphtheria toxin
Answer: (b)

89. Which of the following hormones is not correctly matched ?
(a) Melatonin – Epiphysis
(b) Melanotropin – Middle lobe of pituitary
(c) Leptin – Adipocytes
(d) Renin – Stomach of infants
Answer: (d)

90. Development of Anther in angiosperms is
(a) Leptosporangiate
(b) Eusporangiate
(c) Gradate
(d) Simple
Answer: (b)

91. The terms lotic and lentic refers to
    (a) Marine habitat
    (b) Terrestrial habitat
    (c) Fresh water habitat
    (d) Estuarine habitat

    Answer: (c)

92. Apocarpous condition occurs in
    (a) Liliaceae
    (b) Graminae
    (c) Ranunculaceae
    (d) Compositae

    Answer: (c)

93. Chylorhizy is found in
    (a) Opuntia
    (b) Euphorbia
    (c) Asparagus
    (d) Aloe

    Answer: (c)

94. The tendril shows
    (a) Haptotropism
    (b) Chemotropism
    (c) Phototropism
    (d) Hydrotropism

    Answer: (a)

95. Leafless stem of onion which produces flowers is called
    (a) Peduncle
    (b) Floral axis
    (c) Scape
    (d) Rachis

    Answer: (c)

96. Which of the following is permitted in a wild life sanctuary ?
    (a) Hunting of animals
    (b) Cutting of trees
    (c) Grazing of cattles
    (d) Collection of fruits, firewood and medicinal plants

    Answer: (d)

97. According to Geological Time Scale which one is the oldest period among the following ?
(a) Cambrian
(b) Carboniferous
(c) Ordovician
(d) Permian
Answer: (a)

98. The phenomenon of Bradytely is exhibited by which of the following animal ?
(a) Neoceratodus only
(b) Latimaria only
(c) Sphenodon only
(d) All of the above
Answer: (d)

99. Halophytic fern is
(a) Adiantum emarginatum
(b) Asplinium nidus
(c) Acrostichum aureum
(d) None
Answer: (c)

100. Stratification of trees is seen in
(a) Grasslands
(b) Alpine regions
(c) Temperate region
(d) Tropical rain forests
Answer: (d)

101. Krebs-Henseliet cycle is also called
(a) Krebs cycle
(b) Tricarboxylic acid cycle
(c) Citric acid cycle
(d) Urea cycle
Answer: (d)

102. Interventricular septum is incomplete in
(a) Rana
(b) Uromastix
(c) Columba
(d) Oryctolagus
Answer: (b)

103. Which of the following is the correct match of the algal group with its food reserve ?
Algal Group — Food Reserve
a. Bacillariophyceae — i. Oil
b. Xanthophyceae — ii. Leucosin
c. Phaeophyceae — iii. Manitol
d. Chlorophyceae — iv. Volutin
v. Starch
Codes : a b c d

(a) iv i iii v

(b) ii i iii iv

(c) iv i ii v

(d) i v iii ii

Answer: (a)

104. Which pair is correct ?

(a) Cruciferae – Pentamerous

(b) Ranunculaceae – Bicarpellary

(c) Capparidaceae – Androphore

(d) Cucurbitaceae – Axile Placentation

Answer: (c)

105. During its entire life the queen bee copulates

(a) Once only

(b) Twice only

(c) Thrice only

(d) Continuously

Answer: (a)

106. The process where Bacterial gene are transmitted from donar to recipient as part of the sex factor termed

(a) Conjugation

(b) Sexduction

(c) Transformation

(d) Transduction

Answer: (b)

107. According to Bower and Goebel Rhizophore of selaginella is

(a) A stem

(b) A root

(c) An organ sui-generis

(d) None of the above

Answer: (c)

108. Germination of pollen grain on the stigma is called

(a) Autogamy

(b) In situ germination

(c) In vivo germination

(d) In vitro germination

Answer: (c)

109. The rate of oxygen consumption of an animal is equal to x at 0°C. If Q_{10} is equal to 2, at which of the following temperatures the rate will be 8x ?

(a) 5°C

(b) 10°C

(c) 30°C

(d) 35°C

Answer: (c)

110. Feeding in Sporozoa is

(a) by cytostome

(b) autotrophic

(c) by micropores

(d) ciliary

Answer: (c)

111. In arithmetic average the meaning of Σ is

(a) Sample mean

(b) Number of individuals

(c) Summation

(d) Individual measures

Answer: (c)

112. An algae having chlorophyll a, floridian starch as storage product and lacking flagellate cells belongs to the class

(a) Phaeophyceae

(b) Chlorophyceae

(c) Rhodophyceae

(d) Xanthophyceae

Answer: (c)

113. Fibrous bands present in endothecium of anther wall is made up of

(a) Sporopollenin

(b) α-cellulose

(c) Pectin

(d) Lignin

Answer: (b)

114. Which one is most primitive among the following in Geological Time Scale ?
(a) Lycopodium
(b) Selaginella
(c) Equisetum
(d) Psilotum
Answer: (d)

115. Auxospores are found in
(a) Cynophyceae
(b) Chlorophyceae
(c) Rhodophyceae
(d) Bacillariophyceae
Answer: (d)

116. Polysome consists
(a) Ribosome and t RNA
(b) Lysosome
(c) Chromosome and centrosome
(d) Ribosome and m RNA
Answer: (d)

117. Placenta in humans is
(a) chorionic, monodiscoidal, haemachorial
(b) yolk-sac, diffuse, epitheliochorial
(c) allantoic, cotledonary, haemoendoth.
(d) allantoic, zonary, syndesmo-chorial
Answer: (a)

118. In Griffith experiment of transformation virulent strain is called as
(a) S-strain
(b) R-strain
(c) M-strain
(d) K-strain
Answer: (a)

119. Lomasome represents
(a) Membrane structure
(b) Mitochondrial equivalent
(c) Plastid
(d) Irregular structures
Answer: (a)

120. Which one of the following is a fungal disease of plants ?
(a) Cucumber mosaic
(b) Fire blight of pear
(c) Crown gall
(d) Apple scab
Answer: (d)

121. Only smooth walled rhizoids are found in
(a) Riccia
(b) Marchantia
(c) Pellia
(d) Funaria
Answer: (c)

122. A prokaryotic cell lacks
(a) only histones in its DNA
(b) only cytoskeleton
(c) only sub-cellular organelles
(d) all of the above
Answer: (d)

123. Which one is found in endospore of bacteria not egetative cell ?
(a) Muramic acid
(b) Dipicolinic acid
(c) Glycolic acid
(d) None of the above
Answer: (b)

124. One species inhibits the growth of another species but does not feed on it. This is called
(a) Commensalism
(b) Mutualism
(c) Cooperation
(d) Amensalism
Answer: (d)

125. Weeds of the fish pond having fry is removed by
(a) Weedicides
(b) Herbicides
(c) Pesticides
(d) Mechanical uprooting
Answer: (d)

Answer key

Answer key from the U.P. Secondary Education Services Selection Board's official answer key for this sitting. "—" means the key gave none.

Biology

1	**(a)**	2	**(c)**	3	**(d)**	4	**(c)**	5	**(d)**	6	**(b)**
7	**(d)**	8	**(b)**	9	**(d)**	10	**(b)**	11	**(a)**	12	**(d)**
13	**(a)**	14	**(c)**	15	**(c)**	16	**(d)**	17	**(d)**	18	**(a)**
19	**(c)**	20	**(a)**	21	**(b)**	22	**(a)**	23	**(c)**	24	**(a)**
25	**(c)**	26	**(c)**	27	**(d)**	28	**(d)**	29	**(d)**	30	**(a)**
31	**(b)**	32	**(a)**	33	**(b)**	34	**(c)**	35	**(c)**	36	**(c)**
37	**(d)**	38	**(a)**	39	**(a)**	40	**(c)**	41	**(b)**	42	**—**
43	**(b)**	44	**(a)**	45	**(a)**	46	**(b)**	47	**(a)**	48	**(d)**
49	**(c)**	50	**(c)**	51	**(d)**	52	**(d)**	53	**(d)**	54	**(a)**
55	**(a)**	56	**(c)**	57	**—**	58	**(b)**	59	**(d)**	60	**(a)**
61	**(d)**	62	**(d)**	63	**(a)**	64	**(a)**	65	**(d)**	66	**(c)**
67	**(c)**	68	**(c)**	69	**(d)**	70	**(c)**	71	**(d)**	72	**(a)**
73	**(b)**	74	**(a)**	75	**(c)**	76	**(a)**	77	**(a)**	78	**(a)**
79	**(c)**	80	**(c)**	81	**(b)**	82	**(c)**	83	**(b)**	84	**(d)**
85	**(a)**	86	**(a)**	87	**(a)**	88	**(b)**	89	**(d)**	90	**(b)**
91	**(c)**	92	**(c)**	93	**(c)**	94	**(a)**	95	**(c)**	96	**(d)**
97	**(a)**	98	**(d)**	99	**(c)**	100	**(d)**	101	**(d)**	102	**(b)**
103	**(a)**	104	**(c)**	105	**(a)**	106	**(b)**	107	**(c)**	108	**(c)**
109	**(c)**	110	**(c)**	111	**(c)**	112	**(c)**	113	**(b)**	114	**(d)**
115	**(d)**	116	**(d)**	117	**(a)**	118	**(a)**	119	**(a)**	120	**(d)**
121	**(c)**	122	**(d)**	123	**(b)**	124	**(d)**	12	**(d)**		