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**FOR ANSWERS**

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**Q1.** Root hair arises from:

**1 Marks**

A. Epiblema.

B. Endodermis.

C. Pericycle.

D. Cortex.

**Q2.** Which of the following helps in the curling of the leaf surface?

**1 Marks**

A. Bulliform cells.

B. Xylem tissue.

C. Palisade parenchyma.

D. Bundle sheath cells.

**Q3.** Phellogen and phellem respectively denote.

**1 Marks**

A. Cork cambium and cork.

B. Cork and cork cambium.

C. Secondary cortex and cork.

D. Cork and secondary cortex.

**Q4.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below.

**1**

**Assertion:** In grasses and cereals, intercalary meristems are present.

**Reason:** Intercalary meristems form permanent tissues.

A. Both A and R are true and R is the correct explanation of A.

B. Both A and R are true but R is not the correct explanation of A.

C. A is true but R is false.

D. A is false and R is also false.

**Q5.** When bark is cut from stem, which of the following vascular tissue is removed?

**1**

A. Xylem

B. Phloem

C. Parenchyma

D. All of the above

**Q6.** Which is correct about transport or conduction of substances?

**1**

A. Organic food moves upwardly and downwardly through phloem.

B. Inorganic food moves upwardly and downwardly through xylem.

C. Organic food moves up through phloem.

D. Organic food moves up through phloem.

**Q7.** The length of different internodes in a culm of sugarcane is variable because of:

**1**

A. Shoot apical meristem.

B. Position of axillary buds.

C. Size of leaf lamina at the node below each internode.

D. Intercalary meristem.

**Q8.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below.

**1 Marks**

**Assertion:** Aerenchyma help in buoyancy to hydrophyte plants.

**Reason:** The large air chambers are present in aerenchyma.

A. Both A and R are true and R is the correct explanation of A.

B. Both A and R are true but R is not the correct explanation of A.

C. A is true but R is false.

D. A is false and R is also false.

**Q9.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below.

**1 Marks**

**Assertion:** Sclereids are found in the fruit walls of nuts, pulp of fruits like guava, pear and sapota and seed coats of legumes.

**Reason:** Sclereids are spherical, oval or cylindrical, highly thickened dead cells with narrow lumen.

A. Both A and R are true and R is the correct explanation of A.

B. Both A and R are true but R is not the correct explanation of A.

C. A is true but R is false.

D. A is false and R is also false.

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- Q10.** The annular and spirally thickened conducting elements generally develop in the protoxylem when the root or stem is: 1 Marks
- A. Widening. B. Differentiating. C. Maturing. D. Elongating.
- Q11.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. 1 Marks
- Assertion:** In angiosperms, the conduction of water is more efficient because their xylem has vessels.  
**Reason:** Conduction of water by vessel elements is an active process with energy supplied by xylem parenchyma rich in mitochondria.
- A. Both A and R are true and R is the correct explanation of A. B. Both A and R are true but R is not the correct explanation of A.  
 C. A is true but R is false. D. A is false and R is also false.
- Q12.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. 1 Marks
- Assertion:** The trichomes in the shoot system are usually multicellular.  
**Reason:** These help in preventing water loss due to evaporation.
- A. Both A and R are true and R is the correct explanation of A. B. Both A and R are true but R is not the correct explanation of A.  
 C. A is true but R is false. D. A is false and R is also false.
- Q13.** Pith is very well developed in: 1
- A. Monocot root and monocot stem. B. Monocot root and dicot root.  
 C. Dicot root and monocot stem. D. Monocot root and dicot stem.
- Q14.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. 1
- Assertion:** Each stoma is composed of two bean shaped cells known as guard cells.  
**Reason:** Guard cells regulate the opening and closing of stomata
- A. Both A and R are true and R is the correct explanation of A. B. Both A and R are true but R is not the correct explanation of A.  
 C. A is true but R is false. D. A is false and R is also false.
- Q15.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. 1
- Assertion:** Endodermis is also called as starch sheath in dicot stem.  
**Reason:** The cells of the endodermis are rich in starch grains.
- A. Both A and R are true and R is the correct explanation of A. B. Both A and R are true but R is not the correct explanation of A.  
 C. A is true but R is false. D. A is false and R is also false.
- Q16.** Which exposed wood will decay faster? 1 Marks
- A. Sapwood. B. Softwood.  
 C. Wood with lot of fibres. D. Heartwood.
- Q17.** What is the fate of primary xylem in a dicot root showing extensive secondary growth? 1 Marks
- A. It is retained in the centre of the axis. B. It gets crushed.  
 C. May or may not get crushed. D. If gets surrounded by primary phloem.
- Q18.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. 1 Marks
- Assertion:** Cuticle is also present in lower epidermal region of the leaf.  
**Reason:** The lower epidermis contains a large number of stomata.
- A. Both A and R are true and R is the correct explanation of A. B. Both A and R are true but R is not the correct explanation of A.  
 C. A is true but R is false. D. A is false and R is also false.

- Q19.** Thickening of trunk in woody plants is due to: 1 Marks
- A. Cambium                                      B. Apical meristem                                      C. Intercalary meristem                                      D. Epidermis
- Q20.** As the secondary growth takes place (proceeds) in a tree, thickness of: 1 Marks
- A. Heartwood increases.                                      B. Sapwood increases.  
C. Both increase.                                      D. Both remain the same.
- Q21.** Which one of the following pairs of animals comprises 'jawless fishes'? 1 Marks
- A. Guppies and hag fishes.                                      B. Mackerals and Rohu.  
C. Lampreys and eels.                                      D. Lampreys and hag fishes.
- Q22.** Which one of the following groups of animals is bilaterally symmetrical and triploblastic? 1 Marks
- A. Coelenterates (Cnidarians).                                      B. Ctenophores.  
C. Aschelminthes (round worms).                                      D. None of these.
- Q23.** What is true about *Taenia saginata*? 1 Marks
- A. Life history has pig as intermediate host.                                      B. There are two large suckers on scolex.  
C. Rostellar hooks are absent.                                      D. Rostellum has double circle of hooks.
- Q24.** Body cavity is the cavity present between body wall and gut wall. In some animals the body cavity is not lined by mesoderm. Such animals are called. 1
- A. Acoelomates.                                      B. Pseudocoelomates.                                      C. Coelomates.                                      D. Haemocoeloma
- Q25.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. 1
- Assertion:** Sponges exhibit cellular level of organization.  
**Reason:** In sponges, cells are arranged as loose cell aggregates.
- A. Both A and R are true and R is the correct explanation of A.                                      B. Both A and R are true but R is not the correct explanation of A.  
C. A is true but R is false.                                      D. A is false and R is also false.
- Q26.** Flight muscles of bird are attached to: 1
- A. Clavicle.                                      B. Keel of sternum.                                      C. Scapula.                                      D. Coracoid.
- Q27.** Osteichthyes belongs to: 1
- A. Class amphibia.                                      B. Super class pisces.  
C. Super class tetrapoda.                                      D. Division agnatha.
- Q28.** Bull frog of India is: 1 Marks
- A. *Rana tigrina*.                                      B. *R. sylvatica*.                                      C. *R. Catesbiana*.                                      D. *R. esculenta*.
- Q29.** Which of the following is not found in birds? 1 Marks
- A. Hindlimb.                                      B. Pectoral girdle.                                      C. Pelvic girdle.                                      D. Forelimb.
- Q30.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. 1 Marks
- Assertion:** Platyhelminthes are generally herma- phrodites.  
**Reason:** Fertilization is internal in Platyhelminthes.
- A. Both A and R are true and R is the correct explanation of A.                                      B. Both A and R are true but R is not the correct explanation of A.  
C. A is true but R is false.                                      D. A is false and R is also false.
- Q31.** Kala-azar and oriental sore are spread by: 1 Marks
- A. Housefly.                                      B. Bed bug.                                      C. Sand fly.                                      D. Fruit fly.
- Q32.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. 1 Marks

**Assertion:** Coelenterates are known as Radiata.

**Reason:** These are bilaterally symmetrical organism.

- A. Both A and R are true and R is the correct explanation of A.  
C. A is true but R is false.

- B. Both A and R are true but R is not the correct explanation of A.  
D. A is false and R is also false.

**Q33.** Phylum that doesn't have a true coelom is:

1 Marks

- A. Platyhelminthes. B. Annelida. C. Echinoderms. D. Arthropoda.

**Q34.** Which one of these is viviparous?

1 Marks

- A. Turtle B. Running birds C. Rabbit and whale D. Bony fish

**Q35.** Which one of the following statements is incorrect?

1 Marks

- A. In cockroaches and prawns excretion of waste material occurs through malpighian tubules.  
C. In Fasciola, flame cells help in excretion.  
B. In ctenophores, locomotion is mediated by comb plates.  
D. Earthworms are hermaphrodites and yet cross fertilization take place among them.

**Q36.** Water-Vascular system is found in:

1 Marks

- A. Sea-anemone. B. Sea-pen. C. Sea-cucumber. D. Sea-horse.

**Q37.** Gorilla, chimpanzee, monkeys and human belong to the same:

1

- A. Species. B. Genus. C. Family. D. Order.

**Q38.** Aristotle's lantern occurs in class:

1

- A. Echinoidea. B. Asteroidea. C. Holothuroidea. D. Ophiuroidea.

**Q39.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below.

1

**Assertion:** Torsion can be seen in ctendium.

**Reason:** Ctenidium acts as the respiratory organ.

- A. Both A and R are true and R is the correct explanation of A.  
C. A is true but R is false.  
B. Both A and R are true but R is not the correct explanation of A.  
D. A is false and R is also false.

**Q40.** Penguin occurs in:

1

- A. Australia. B. Antarctica. C. Africa. D. America.

**Q41.** Binomial nomenclature consists of two words:

1 Marks

- A. Genus and species. B. Order and family.  
C. Family and genus. D. Species and variety.

**Q42.** Nitrogen fixer soil organisms belong to:

1 Marks

- A. Mosses. B. Bacteria. C. Green algae. D. Soil fungi

**Q43.** Decomposers are organisms that:

1 Marks

- A. Elaborate chemical substances, causing death of tissues.  
C. Attack and kill plants as well as animals.  
B. Operate in living body and simplifying organic substances of cells step by step.  
D. Operate in relay terms, simplifying step by step the organic constituents of dead body.

**Q44.** Viruses are no more "alive" than isolated chromosomes because?

1 Marks

- A. Both require the environment of a cell to replicate.  
C. They both need food molecules.  
B. They require both RNA and DNA.  
D. They both require oxygen for respiration.

**Q45.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:

1 Marks

**Assertion (A):** Viruses are included in the five-kingdom classification.

**Reason (R):** Viruses are acellular and cannot reproduce on their own.

- A. Both A and R are true, and R is the correct explanation of A.  
C. A is true, but R is false.

- B. Both A and R are true, but R is not the correct explanation of A.  
D. A is false, but R is true.

**Q46.** The vector for sleeping sickness is:

1 Marks

- A. House fly. B. Tse-tse fly. C. Sand fly. D. Fruit fly.

**Q47.** Which of the following statement about Mycoplasma is true:

1 Marks

- A. They differ from viruses in being cellular in organisation.  
C. They can survive without photosynthetic pigments and genetic material.
- B. Insensitive to several antibiotics as they have 70S ribosomes.  
D. They are smallest, disease causing thin walled organisms

**Q48.** The chemical compounds produced by the host plants to protect themselves against fungal infection is

1 Marks

- A. Phytotoxin. B. Pathogen. C. Phytoalexins. D. Hormone.

**Q49.** Bacteria that live in hot springs are called:

1 Marks

- A. Halophiles. B. Thermoacidophiles.  
C. Methanogens. D. None of the above.

**Q50.** A dikaryon is formed when:

1

- A. Meiosis is arrested. B. The two haploid cells do not fuse immediately.  
C. Cytoplasm does not fuse. D. None of the above.

**Q51.** Reverse transcriptase is:

1

- A. RNA dependent RNA polymerase. B. DNA dependent RNA polymerase.  
C. DNA dependent DNA polymerase. D. RNA dependent DNA polymerase.

**Q52.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:

1

**Assertion (A):** Fungi reproduce only sexually.

**Reason (R):** Sexual reproduction is the only method in fungi.

- A. Both A and R are true, and R is the correct explanation of A.  
C. A is true, but R is false.
- B. Both A and R are true, but R is not the correct explanation of A.  
D. A is false, but R is true.

**Q53.** Plasmodium, the malarial parasite, belongs to class:

1 Marks

- A. Sarcodina. B. Ciliata. C. Sporozoa. D. Dinophyceae.

**Q54.** Genetic information in Paramecium is contained in:

1 Marks

- A. Micronucleus. B. Macronucleus.  
C. Both (a) & (b). D. Mitochondria.

**Q55.** Genophore bacterial genome or nucleoid is made of:

1 Marks

- A. Histones and nonhistones. B. RNA and histones.  
C. A single double stranded DNA. D. A single stranded DNA.

**Q56.** Tobacco Mosaic Virus (TMV) genes are.

1 Marks

- A. Double stranded RNA. B. Single stranded RNA.  
C. Polyribonucleotides. D. Proteinaceous.

- Q57.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below: **1 Marks**
- Assertion (A):** Some fungi form symbiotic associations with algae.
- Reason (R):** These associations are known as mycorrhizae.
- A. Both A and R are true, and R is the correct explanation of A.  
 B. Both A and R are true, but R is not the correct explanation of A.  
 C. A is true, but R is false.  
 D. A is false, but R is true.
- Q58.** Bentham and Hooker gave which system of classification? **1 Marks**
- A. Numerical  
 B. Phylogenetic  
 C. Artificial  
 D. Natural
- Q59.** Prion consists of \_\_\_\_\_. **1 Marks**
- A. DNA  
 B. RNA  
 C. Both DNA and RNA  
 D. Protein
- Q60.** Binomial nomenclature was given by: **1 Marks**
- A. Huxley.  
 B. Ray.  
 C. Darwin.  
 D. Linnaeus.
- Q61.** Which one of the following is the hierarchical sequence? **1 Marks**
- A. Phylum, class, order, family.  
 B. Phylum, division, family, class.  
 C. Genus, species, order, family.  
 D. Division, order, class, genus.
- Q62.** **Directions:** In the following questions, a statement of assertion is followed by a statement of reason. Mark the correct choice as: **1**
- Assertion:** Exotoxins are released by Gram +ve bacteria causing diseases to animals.
- Reason:** Exotoxins are proteins that react with WBC of animals.
- A. If both Assertion and Reason are true and Reason is the correct explanation of Assertion.  
 B. If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.  
 C. If Assertion is true but Reason is false.  
 D. If both Assertion and Reason are false.
- Q63.** The National botanical garden is located at: **1**
- A. Kolkata  
 B. Dehradun  
 C. Lucknow  
 D. Ootacamund
- Q64.** **Directions:** In the following questions, a statement of assertion is followed by a statement of reason. Mark the correct choice as: **1**
- Assertion:** Some bacteria have the capacity to retain Gram stain after treatment with acid alcohol
- Reason:** They are known as gram positive as they are attracted towards positive pole under influence of electric current
- A. If both Assertion and Reason are true and Reason is the correct explanation of Assertion.  
 B. If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.  
 C. If Assertion is true but Reason is false.  
 D. If both Assertion and Reason are false.
- Q65.** National Botanical Research Institute is located in: **1 Marks**
- A. Shimla.  
 B. Dehradun.  
 C. Howrah.  
 D. Lucknow.
- Q66.** The Phylogenetic system of classification was put forth by: **1 Marks**
- A. Theophrastus.  
 B. George Bentham and Joseph Dalton Hooker.  
 C. Carolus Linnaeus.  
 D. Adolf Engler and Karl Prantl.
- Q67.** Taxonomic studies depends on **1 Marks**
- A. Ecological information of organisms.  
 B. Structure of cell and development process of organisms.  
 C. External and internal structure of organisms.  
 D. All of the above.
- Q68.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. **1 Marks**
- Assertion:** Unicellular green algae were not included in protista by Whittaker.
- Reason:** Distinction between unicellular and multicellular organisms is not possible in case of algae.
- A. Both A and R are true and R is the correct explanation of A.  
 B. Both A and R are true but R is not the correct explanation of A.



C. A is true but R is false.

D. A is false and R is also false.

**Q69.** Which is the highest in the hierarchy of taxonomic categories?

**1 Marks**

A. Genus

B. Family

C. Order

D. Class

**Q70.** Nicotiana is a ———

**1 Marks**

A. Species

B. Sub-species

C. Genus

D. Class

**Q71.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below.

**1 Marks**

**Assertion:** Classification is necessary to study all living organisms.

**Reason:** Individuals are grouped into categories in classification.

A. Both A and R are true and R is the correct explanation of A.

B. Both A and R are true but R is not the correct explanation of A.

C. A is true but R is false.

D. A is false and R is also false.

**Q72.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below.

**1 Marks**

**Assertion:** Botanical gardens are grown for educational and scientific purposes.

**Reason:** Zoological parks are the places where wild animals are kept in protected environments.

A. Both A and R are true and R is the correct explanation of A.

B. Both A and R are true but R is not the correct explanation of A.

C. A is true but R is false.

D. A is false and R is also false.

**Q73.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below.

**1**

**Assertion:** The growth in living organisms is from inside.

**Reason:** Plants grow only upto certain age.

A. Both A and R are true and R is the correct explanation of A.

B. Both A and R are true but R is not the correct explanation of A.

C. A is true but R is false.

D. A is false and R is also false.

**Q74.** First life on earth was:

**1**

A. Cyanobacteria.

B. Chemoheterotrophs.

C. Autotrophs.

D. Photoautotrophs.

**Q75. Directions:** In the following questions, a statement of assertion is followed by a statement of reason. Mark the correct choice as:

**1**

**Assertion:** Chemotaxonomy is classifying organisms at molecular level.

**Reason:** Cytotaxonomy is classifying organisms at cellular level.

A. If both Assertion and Reason are true and Reason is the correct explanation of Assertion.

B. If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.

C. If Assertion is true but Reason is false.

D. If both Assertion and Reason are false.

**Q76.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below.

**1 Marks**

**Assertion:** Information for identification of names of species is provided by monographs.

**Reason:** Monographs contain information on more than one taxon.

A. Both A and R are true and R is the correct explanation of A.

B. Both A and R are true but R is not the correct explanation of A.

C. A is true but R is false.

D. A is false and R is also false.

**Q77. Directions:** In the following questions, a statement of assertion is followed by a statement of reason. Mark the correct choice as:

**1 Marks**

**Assertion:** Living organisms are self replicating, evolving and self regulating unit.

**Reason:** These are capable of responding to external stimuli.

A. If both Assertion and Reason are true and Reason is the correct explanation of Assertion.

B. If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.

C. If Assertion is true but Reason is false.

D. If both Assertion and Reason are false.

**Q78. Directions:** In the following questions, a statement of assertion is followed by a statement of reason. 1 Marks

Mark the correct choice as:

**Assertion:** Erythrocytic merozoites form gametocytes.

**Reason:** Gametocytes are of two types - male and female.

- |  |  |
|--|--|
| A. If both Assertion and Reason are true and Reason is the correct explanation of Assertion. | B. If both Assertion and Reason are true but Reason is not the correct explanation of Assertion. |
| C. If Assertion is true but Reason is false.   | D. If both Assertion and Reason are false.   |

**Q79.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. 1 Marks

**Assertion:** The hierarchy includes seven obligate categories.

**Reason:** Intermediate categories are used to make taxonomic positions more informative.

- |   |   |
|---|---|
| A. Both A and R are true and R is the correct explanation of A. | B. Both A and R are true but R is not the correct explanation of A. |
| C. A is true but R is false.                                    | D. A is false and R is also false.                                  |

**Q80.** For two statements are given-one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below. 1 Marks

**Assertion:** Whittaker's classification for algae is not acceptable.

**Reason:** Whittaker grouped algae in different kingdoms.

- |   |   |
|---|---|
| A. Both A and R are true and R is the correct explanation of A. | B. Both A and R are true but R is not the correct explanation of A. |
| C. A is true but R is false.                                    | D. A is false and R is also false.                                  |

**Q81.** In conifers, fibers are likely to be absent in:

- |                      |                     |
|----------------------|---------------------|
| A. Secondary phloem. | B. Secondary xylem. |
| C. Primary phloem.   | D. Leaves.          |

**Q82.** A piece of wood having no vessels (trachea) must be belonging to:

- |          |           |          |          |
|----------|-----------|----------|----------|
| A. Teak. | B. Mango. | C. Pine. | D. Palm. |
|----------|-----------|----------|----------|

**Q83.** Match the following list of animals with their level of organisation.

	Division of Labour		Animal
	Column I		Column II
A.	Organ level	i.	Pheretima
B.	Cellular aggregate level	ii.	Fasciola
C.	Tissue level	iii.	Spongilla
D.	Organ system level	iv.	Obelia

Choose the correct match showing division of labour with animal example.

- |                               |                               |
|-------------------------------|-------------------------------|
| A. i-B, ii-C, iii-D, and iv-A | B. i-B, ii-D, iii-C, and iv-A |
| C. i-D, ii-A, iii-B, and iv-C | D. i-A, ii-D, iii-C, and iv-B |

**Q84.** A Prothallus is: 1 Marks

- |   |   |
|---|---|
| A. A structure in pteridophytes formed before the thallus develops. | B. A sporophytic free living structure formed in pteridophytes.       |
| C. A gametophyte free living structure formed in pteridophytes.     | D. A primitive structure formed after fertilization in pteridophytes. |

**Q85.** Which one of the following is a non-poisonous snake? 1 Marks

- |           |           |            |           |
|-----------|-----------|------------|-----------|
| A. Cobra. | B. Viper. | C. Python. | D. Krait. |
|-----------|-----------|------------|-----------|

**Q86.** Interfascicular cambium and cork cambium are formed due to: 1 Marks

- |                   |                          |
|-------------------|--------------------------|
| A. Cell division. | B. Cell differentiation. |
|-------------------|--------------------------|



C. Cell dedifferentiation.

D. Redifferentiation.

**Q87.** If the diploid number of a flowering plant is 36. What would be the chromosome number in its endosperm: **1 Marks**

A. 36

B. 18

C. 54

D. 72

**Q88.** A conjoint and open vascular bundle will be observed in the transverse section of: **1 Marks**

A. Monocot root.

B. Monocot stem.

C. Dicot root.

D. Dicot stem.

**Q89.** A transverse section of stem is stained first with safranin and then with fast green following the usual schedule of double staining for the preparation of a permanent slide. What would be the colour of the stained xylem and phloem? **1 Marks**

A. Red and green.

B. Green and red.

C. Orange and yellow.

D. Purple and orange.

**Q90.** Which of the following pairs of animals has non glandular skin. **1 Marks**

A. Snake and Frog.

B. Chameleon and Turtle.

C. Frog and Pigeon.

D. Crocodile and Tiger.

**Q91.** Plants of this group are diploid and well adapted to extreme conditions. They grow bearing sporophylls in compact structures called cones. The group in reference is: **1**

A. Monocots.

B. Dicots.

C. Pteridophytes.

D. Gymnosperms.

**Q92.** Match the following and choose the correct option: **1**

	Column I		Column II
A.	Family	i.	tuberosum
B.	Kingdom	ii.	Polymoniales
C.	Order	iii.	Solanum
D.	Species	iv.	Plantae
E.	Genus	v.	Solanacea

Options:

A. A-v, B-iv, C-ii, D-i, E-iii

B. A-iv, B-iii, C-v, D-ii, E-i

C. A-iv, B-iii, C-v, D-i, E-ii

D. A-iv, B-iii, C-ii, D-v, E-i

**Q93.** Protonema is: **1 Marks**

A. Haploid and is found in mosses.

B. Diploid and is found in liverworts.

C. Diploid and is found in pteridophytes.

D. Haploid and is found in pteridophytes.

**Q94.** Birds and mammals share one of the following characteristics as a common feature. **1 Marks**

A. Pigmented skin.

B. Pneumatic bones.

C. Viviparity.

D. Warm blooded.

**Q95.** Which one of the following sets of animals share a four chambered heart? **1 Marks**

A. Amphibian, Reptiles, Birds.

B. Crocodiles, Birds, Mammals.

C. Crocodiles, Lizards, Turtles.

D. Lizards, Mammals, Birds.

**Q96.** With respect to fungal sexual cycle, choose the correct sequence of events: **1 Marks**

A. Karyogamy, Plasmogamy and Meiosis.

B. Meiosis, Plasmogamy and Karyogamy.

C. Plasmogamy, Karyogamy and Meiosis.

D. Meiosis, Karyogamy and Plasmogamy.

**Q97.** Viruses are non-cellular organisms but replicate themselves once they infect the host cell. To which of the following kingdom do viruses belong to? **1 Marks**

A. Monera.

B. Protista.

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C. Fungi.

D. None of the above.

**Q98.** Contagium vivum fluidum was proposed by:

**1 Marks**

A. D.J. Ivanowsky.

B. M.W. Beijerinck.

C. Stanley.

D. Robert Hook.

**Q99.** Organisms living in salty areas are called as:

**1 Marks**

A. Methanogens.

B. Halophiles.

C. Heliophytes.

D. Thermoacidophiles.

**Q100.** Naked cytoplasm, multinucleated and saprophytic are the characteristics of:

**1 Marks**

A. Monera.

B. Protista.

C. Fungi.

D. Slime molds.

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