

2022

Time : 3 hours

Full Marks : 60 (32)

*Candidates are required to give their answers
in their own words as far as practicable.*

The figures in the margin indicate full marks.

Answer any five questions in

which questions no 1 & 2 are compulsory.

1. Choose the correct alternative for each of the
following questions : 1.5×10=15

- (a) The bacterial cell wall consist of :

- (i) Chitin
- (ii) Lignin
- (iii) Cellulose
- (iv) Pactose

- (b) Bacteria were first discovered by :

- (i) Pasteur
- (ii) Robert Koch
- (iii) T J Burill
- (iv) Anton Van Leeuwenhoek

- (c) Virology is the study of :

- (i) Bacteria
- (ii) Viruses

- (iii) Fungi
- (iv) Algae
- (d) The cap cells are found in :
- (i) Spirogyra
- (ii) Vaucharia
- (iii) Chara
- (iv) Oedogonium
- (e) Oedogonium belongs to class :
- (i) Chlorophyceae
- (ii) Myxophyceae
- (iii) Plaeophyceae
- (iv) Rhodophyceae
- (f) Mycology is the study of :

- (i) Algae
- (ii) Fungi
- (iii) Bryophyta
- (iv) Pteridophyta
- (g) Gemma cup is found in :
- (i) Anthoceros
- (ii) Marchentia
- (iii) Funaria
- (iv) All of them
- (h) The stele in the stem of selaginella is :
- (i) Protostele
- (ii) Solenostele
- (iii) Polystele

(iv) Dictyostele

(i) The coralloid roots are the characteristics of :

(i) Fern

(ii) Cycas

(iii) Angiosperm

(iv) None of them

(j) Binomial system of nomenclature means :

(i) Two names, one scientific and one commonly followed

(ii) Two names one genus and other species

(iii) Two names, one in latin and other in greek

(iv) Two names given by two scientists

2. Write short notes on any three of the following : 5×3=15

(a) Structure of cell of oedogonium

(b) Aecial cup of Puccinia

(c) Anatomy of marchentia thallus

(d) Anatomy of pinus needle

(e) Pollen grain of Pinus

Answer any three of the following questions : 10×3=30

3. Describe the life cycle of Nostoc.

4. Give a detailed account of the structure and nature of TMV. <https://www.jharkhandstudy.com>

5. Give the symptoms, etiology and control of citrus canker.

6. Describe the microsporogenesis in angiosperm.
7. What is secondary growth ? Discuss how secondary growth takes place in a dicot stem.
8. Describe the diagnostic feature of two family Ranunculaceae or Poaceae giving floral formula, floral diagram and mention the botanical name of any three plants of the family.

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