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PGIS-005-A-22
M.Sc I Semester (CBCS) Degree Examination
BOTANY
Algae, fungi. Bacteria and viruses.
Paper : HCT 1.1

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

- i) Answer any five questions.
- ii) Question No. 1 is compulsory.

Answer in one or Two sentences.

(10×2=20)

1.
 - a) Deshikacharya
 - b) Fucoxanthin
 - c) Teliospores
 - d) Parasexuality
 - e) Coccus
 - f) Black Arm of cotton
 - g) YBMV
 - h) Prions
 - i) Cleistothecia
 - j) Oedogonium
2. Explain the salient features of phaeophyceae and Rhodophyceae. **(15)**
3. Describe the reproduction in lower fungi **(15)**
4. Describe the reproduction in Bacteria. **(15)**
5. Write an account on classification Morphology and structure of Bacteriophage. **(15)**
6. Write short notes on any **Three** of the followings. **(3×5=15)**
 - a) Chara
 - b) Alternaria
 - c) Gram staining
 - d) Double Strand RNA viruses.

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PGIS-006-A-22
M.Sc. I Semester Degree Examination
BOTANY
Bryophytes, Pteridophytes and Gymnosperms
Paper : BOT : HCT 1.2

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

- i) Answer any five questions.
- ii) Question No. 1 is compulsory.

Answer in one or Two sentences.

(10×2=20)

1.
 - a) Peat moss
 - b) Columella
 - c) Frond
 - d) Eusporangiate
 - e) Sporocarp
 - f) Shoot dimorphism.
 - g) Coralloid root
 - h) Polyembryony
 - i) Heterosporous.
 - j) Protostele
2. Describe in detail the life cycle of Anthoceros with suitable diagrams. **(15)**
3. Give an account of vegetative habit and reproduction in lycopodium. **(15)**
4. What is a stele ? Explain various types of stele in pteridophytes. **(15)**
5. Explain the classification of Gymnosperm along with salient features. **(15)**
6. Write short notes on any **Three** of the following. **(3×5=15)**
 - a) Ecological importance of bryophytes.
 - b) Bennettitales
 - c) Heterosporous and seed habit
 - d) Male flower of Ephedra.

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PGIS-007-A-22

M.Sc. I Semester Degree Examination

BOTANY

Plant systematics and phytogeography

Paper : BOT : HCT 1.3

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

- i) Answer any five questions.
- ii) Question No. 1 is compulsory.

Answer in One or Two sentences.

(10×2=20)

1.
 - a) Cremocarp
 - b) Phylogeny
 - c) Herbarium
 - d) Citation
 - e) Syngenesious Anther
 - f) Verticillaster
 - g) Gynostegium
 - h) Pome
 - i) Laurasia
 - j) Native taxa

2. Give a detailed account of Cronquist system of classification. (15)
 3. Write the silent features and diagnostic characters of Euphorbiaceae and Arecaceae. (15)
 4. Write an account on phytogeographic region of India. (15)
 5. Write a brief account of age and area hypothesis and endemic distribution. (15)
 6. Write short notes on any **Three** of the following. (3×5=15)
 - a) Principles of phytogeography
 - b) Will's theory
 - c) Maintenance of herbaria
 - d) Effective publication
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