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PGIS 1030 B-15
M.Sc. Ist Semester (CBCS) Degree Examination
Botany
(Viruses,Bacteria, Algae and Fungi)
Paper - BOT-HCT:1.1

Time : 3 Hours Maximum Marks : 80

1. Answer in one or two sentences **(8x2=16)**

a) Viroids

b) Plasmids

c) PRSV

d) Dolipore septum

e) Para Sporal crystals

f) Citrus canker

g) MLO's

h) Pyrenoids

2. Explain properties and classification of viruses **(16)**

3. Explain in detail the genetic recombination in bacteria **(16)**

4. Write a note on fungal cell structure and reproduction in *puccinia* **(16)**

5. Write an account on economic importance of Algae **(16)**

6. Write short notes on any four of the following **(4×4=16)**

a) Lytic cycle of phages

b) Classification of Mycloplasma

c) Bacterial Nitrogen fixation

d) Characteristics of colletotrichum

e) Rhodophyta

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PGIS 1031 B-14
M.Sc Ist Semester Degree Examination
Botany
(Bryophytes, Pteridophytes and Gymnosperms)
Paper - HCT-1.2

Time : 3 Hours Maximum Marks : 80

Instructions to candidates:

1. *Answer any five questions*
2. *Question No 1 is compulsory*

I. Answer in one or two sentences **(8x2=16)**

a) Apophysis

b) Anticallobe

c) Calamites

d) Elaters

e) Microsporophyll

f) Pollen chamber

g) Synangium

h) Winged pollen grain

2. Give a comparative account of sphagnales and polytrichales **(16)**

3. Write an account of Hetero spory and seed habit **(16)**

4. Explain the morphology anatomy and reproduction in Gnetum **(16)**

5. Write in detail the general characters and classification of pteridophytes **(16)**

6. Write short notes on any **four** of the following **(4x4=16)**

a) sporophyte of polytrichum

b) evolution of sporophyte in hepaticopside

c) economic importance of pteridophytes

d) Megasporophyll of Coniferales.

e) cycadales

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PGIS 1032 B-14
M.Sc. Ist Semester (CBCS) Degree Examination
Botany
(Plant Systematics & Economic Botany)
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.

Part-A

I. 1. Answer in one or two sentences **(8x2=16)**

a) Sucker

b) Priority of publication

c) Thorne

d) Cyathium

e) Androecium of solanaceae

f) ICBN

g) Lodicules

h) Gums

2. Describe in detail the Preparation and importance of herbaria. Add a note on herbaria of India **(16)**

3. Discuss the takthajan's system of classification **(16)**

4. Give the salient features and affinities of the families-magnoliaceae and rubiaceae **(16)**

5. Give an account of rubber yielding plants

6. Write short notes on any four of the following **(4x4=16)**

a) Botanical survey of India

b) Documentation of cultivated plants

c) Resins and tannins

d) Beverage plants

e) Importance of botanical gardens

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PGIS 1033 B-14
M.Sc. Ist Semester (CBCS) Degree Examination
BOTANY
(Ecology and Environment)
Paper : SCT 1.4.1

Time : 3 Hours Maximum Marks : 80

Instructions to Candidates:

*Answer any **FIVE** questions. Question No. 1 is **compulsory***

1. Answer in one or two sentences. **(8 × 2 = 16)**

a) Energy flow
b) Plant succession
c) Soil Erosion
d) Competition
e) Allelopathy
f) Ozone dopletion
g) Spore trap
h) Ecads

2. Explain in detail the priogeochemical cycles with reference to carbon. **(16)**

3. What do you mean by Gen-ecology, give their concepts and types. **(16)**

4. Give an account on classification, structure and characteristic of the Communities. **(16)**

5. Give an account on Remote Sensing and its application in vegetation and analysis. **(16)**

6. Write short notes on any **four** the following :

a) Importance of Rain water harvesting
b) Minamata disease
c) Measurement of Primary productivity
d) Green house effect
e) Monitoring of Airboune particles. **(16)**

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PGIS 1034 B-14
M.Sc. Ist Semester (CBCS) Degree Examination
Botany
(Phytogeography and Evolution)
Paper - BOT:SCT-1.4.2
(New)

Time : 3 Hours Maximum Marks : 80

Instructions to Candidates:

i) Answer any five questions

ii) Q.No 1 is compulsory

Part-A

I. 1. Answer in one or two sentences **(8x2=16)**

a) Indus plain

b) Native taxa

c) Endemics

d) Gondwana

e) Exotic taxa

f) Bellary jaali

g) Inbreeding depression

h) Parthenogenesis

2. Write phytogeography of eastern Himalaya **(16)**

3. Explain disjunct distribution of vegetation **(16)**

4. Give a concise account of phytogeography of Hyderabad karnataka region **(16)**

5. Describe sex evolution in plants **(16)**

12. Answer any two

a) Vegetation of temperate zone

b) Floristic study of India

c) Origin of species

d) protein poly morphism

e) Alternation of generations