Roll No. _____ [Total No. of Pages : 2

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

Time : 3 Hours Maximum Marks : 80

Instructions to candidates :

1. Answer any **five** questions
2. Question no. **1** is **Compulsory**.

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

a) Prions

b) Sandal spike

c) Citrus canker

d) Plastids

e) Holdfast

f) Plasmodium

g) Aplanospores

h) Selerotium

2. Describe classification and symptoms caused by MLO **(16)**

3. Mention the properties and Nomenclature of viruses. **(16)**

4. Give an Account on the role of Bacteria in Agriculture. **(16)**

5. Give an Account on thallus organization in Algae **(16)**

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

a) Viral diseases

b) Role of Bacteria in N_2 fixation

c) Algal Pigments

d) Asexual spores in fungi

e) Types of spores in puccinia

Roll No. _____ [Total No. of Pages : 2

PGIS 1032 B-15
M.Sc.Ist Semester(CBCS)Degree Examination
Botany
(Plant Systematics and Economic Botany)
HCT 1.3

Time :3 Hours Maximum Marks : 80

Instructions to candidates :

1) Answer any **five** questions.
2) Question No. **1** is Compulsory.

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

a) Cyathium

b) Botanical gardens

c) Valid publication

d) Intra marginal vein

e) Coffee

f) Hevea brasiliensis

g) Poricidal anthers

h) Syngamy

2. Write an account on minor forest products . **(16)**

3. Write diagnostic features of Aristolochiaceae and Arecaceae **(16)**

4. Write briefly on botony and economic importance of fibre yielding plants . **(16)**

5. Write an account on classification , documentation and registration of cultivated plants.**(16)**

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

a) Merits and demerits of cronquist system of classification .

b) B.S.I

c) I.C.B.N. Principles

d) Poaceae

e) Beverage plants.

Roll No. _____ [Total No. of Pages : 2

PGIS 1031 B-15
M.Sc.Ist Semester(CBCS)Degree Examination
Botany
(Bryophytes, Pteridophytes and Gymnosperms)
Paper No : HCT 1.2

Time :3 Hours Maximum Marks : 80

Instructions to candidates :

1) Answer any **five** questions.
2) Question No. 1 is Compulsory.

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

a) Seta

b) Thallus

c) Sporophyll

d) Leptosporangiate

e) Leaf gap

f) Impression

g) Rays

h) Transfusion tissue

2. Describe the structure , reproduction and life cycle in anthocerotales **(16)**

3. Discuss the vegetative and reproductive features of lycopodiales **(16)**

4. Give a detailed account on stelar evolution in pteridophytes. **(16)**

5. Write an account of morphology and anatomical features in cycadales. **(16)**

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

a) Economic importance of Bryophytes

b) Isoetes

c) Sporocarp of marselia

d) Angiosperm characters of gnetum

e) Sporophyte of porella.

Roll No. _____ [Total No. of Pages : 2

PGIS 1033 B-15
M.Sc. Ist Semester(CBCS) Degree Examination
Botany
(Ecology and Environment)
SCT 1.4.1
(New)

Time :3 Hours Maximum Marks : 80

Instructions to candidates :

1) Answer any five questions.
2) Question No. 1 is Compulsory.

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

a) Primary Productivity

b) Ecotypes

c) Climax

d) Allelopathy

e) Minamata

f) Vertical cylinder spore trap

g) Air borne particles

h) Plant succession

2. Give a detailed account of carbon and sulphur cycle. **(16)**

3. Write an account of classification , structure and characteristics of community. **(16)**

4. Give a detailed account of properties , profile and soil formation . **(16)**

5. Evaluate the sources of air pollution and its effects on plants **(16)**

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

a) Components of ecosystem

b) Types of plant succession

c) Applications of remote sensing in hydrology

d) Aerobiology and its importance

e) Plant interaction