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PGIS-N 1030 B-2K13

M.Sc. Ist Semester Degree Examination

Botany

(Viruses, Bacteria, Algae and Fungi)

Paper -HCT 1.1

(New)

Time : 3 Hours Maximum Marks :80

Instructions to condidates:

1. Answer any five questions
2. Qustion No.1 is compulsory.

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

a) YBMV

b) Sandal spike

c) Nitrogen fixation

d) Eye spot

e) Heterocyst

f) Glucan

g) xylaria

h) Cercospora

2. Write an account on classification and properties of viruses. 16

3. Discuss in brief the nutrition and reproduction in Bacteria. 16

4. Describe thallus organization and reproduction in phacophyta 16

5 Explain in detail the role of fungi in medicine 16

6. Write short notes on any **four** of the following. 16

   a) Grassy shoot of sugarcane

   b) Citrus canker

   c) Origin of algae

   d) Lytic cycle.

   e) Reproduction in Saprolegnia

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PGIS-N 1034 B-2K13

M.Sc. Ist Semester Degree Examination

Botany

(Phytogeography and Evolution)

Paper - SCT 1.4.2

(New)

Time : 3 Hours Maximum Marks : 80

Instructions to Candidates:

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

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

a) Gangetic plain

b) Pangea

c) Scrub forest

d) J.B.S. Haldane

e) Allopatric speciation

f) Mangrooves

g) Androgenesis

h) Endemism

2. Write general characters of flora of India **(16)**

3. Explain continental drift **(16)**

4. Give a general account of vegetation of Karnataka **(16)**

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

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

a) Statispatric speciation

b) Variation in nucleotide sequence

c) Dispersal of plants

d) Native taxa of Karnataka

e) Origin of sex in plants.

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PGIS-N 1033 B-2K13

M.Sc. Ist Semester Degree Examination

Botany

(Ecology and Environment)

Paper - SCT - 1.4.1

(New)

Time :3 Hours Maximum Marks : 80

Instructions to Candidates:-

i) Answer any **five** questions

ii) Question **no. 1** is compulsory.

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

a) Minamata disease

b) Alluvial soil

c) Ecotype

d) Denitrification

e) Autecology

f) Natality

g) Allelopathy

h) Soil profile.

2. Describe the causes and basic types of plant succession. **(16)**

3. Write an account on energy flow in an ecosystem. **(16)**

4. Write an account of soil erosion and conservation of soil. **(16)**

5. Describe different sources of air pollution and add a note on its effects on the biotic community. **(16)**

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

a) Effect of water pollution on plants.

b) Water bodies and their classification.

c) Tropic structure

d) Aero biology and its importance

e) Application of Remote sensing in hydrology.

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PGIS-N 1031 B-2K13

M.Sc. Ist Semester Degree Examination

Botany

(Bryophytes, Pteridophytes and Gymnosperms)

Paper - HCT - 1.2

(New)

Time :3 Hours Maximum Marks : 80

Instructions to Candidates:-

i) Answer any **five** questions

ii) Questions **no. 1** is compulsory.

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

a) Peristome

b) Columella

c) Plectostele

d) Tassels

e) Apogamy

f) Ovuliferous scale

g) Sago

h) Megasporophyll

2. Write in detail the general characters and classification of bryophytes. **(16)**

3. Give a comparative account of psilophytales and psilotales. **(16)**

4. Give an account of anatomical features in sphenophyllales. **(16)**

5. Write a brief essay on economic importance of gymnosperms. **(16)**

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

a) Origin of bryophytes

b) Sporophyte of polytrichales.

c) Heterospoxy.

d) Reproductive features in isoetales

e) Classification of Gymnosperms.

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PGIS-N 1032 B-2K13

M.Sc. Ist Semester Degree Examination

Botany

(Plant Systematics and Economic Botany)

Paper - HCT- 1.3

(New)

Time :3 Hours Maximum Marks : 80

Instructions to Candidates:-

i) Answer any five questions.

ii) Question no. 1 is compulsory.

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

a) Bulbil

b) BSI

c) Cronquist

d) Valid publication

e) Spike let

f) Rose wood.

g) ICBN

h) Anemochory.

2. Give a comparative account on Arecaual and poaceal. **(16)**

3. Give an account of botanical gardens of India and add a note on their importance. **(16)**

4. Write an account on fibres and fibre yielding plants. **(16)**

5. Discuss in detail the vegetative reproduction through specialized organs in plants with suitable examples. **(16)**

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

i) Advanced flower.

ii) Dry indehiscent fruits.

iii) Diascovlaual

iv) Thorne

v) Principles of priority.
