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Reg. No. :

**Code No. : 11595 E Sub. Code : JNPB 4 B/
SNBO 4 B**

U.G. (CBCS) DEGREE EXAMINATION, APRIL 2019.

Fourth Semester

Plant Biology and Plant Biotechnology/Botany

**Non Major Elective — BOTANY FOR COMPETITIVE
EXAMINATION**

(For those who joined in July 2016 – 17 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. From which one of the following algae, agar agar is obtained
(a) Green algae
(b) Blue green algae
(c) Brown algae
(d) Red algae

2. Which one of the following is an amphibious plant?

(a) Fungi (b) Gymnosperms
(c) Pteridophytes (d) Bryophytes

3. How many families were described in Benthem and Hooker system of classification?

(a) 202 (b) 203
(c) 204 (d) 205

4. Which one of the following family has irregular corolla?

(a) Cucurbitaceae (b) Fabaceae
(c) Poaceae (d) None of these

5. Plant used to treat cold and cough

(a) Neem (b) Ocimum
(c) Acalypha (d) Euphorbia emblica

6. Which part of ginger plant has medicinal property?

(a) rhizome (b) root
(c) leaves (d) all the above

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7. Cell organel involved in protein synthesis is

- (a) mitochondria (b) chloroplast
(c) ribosome (d) Golgi bodies

8. Kreb cycle occurs in

- (a) cytoplasm
(b) golgi complex
(c) mitochondria
(d) endoplasmic reticulum

9. Controlling centre of the cell is

- (a) nucleus (b) mitochondria
(c) ribosome (d) none of these

10. What is the phenotypic ratio of monohybrid cross?

- (a) 1:2:1 (b) 3:1
(c) 9:3:3:1 (d) 9:7

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PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Enumerate salient features of algae.

Or

(b) Write about the economic importance of bacteria.

12. (a) List out economic importance of Poaceae.

Or

(b) Explain the floral characters of Fabaceae.

13. (a) Write the botanical name, useful part and medicinal uses of vetiver.

Or

(b) Write the medicinal uses of phyllanthus emblica.

14. (a) Write note on types of transpiration.

Or

(b) Explain C₃ cycle.

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15. (a) Write note on Bio-fertilizers.

Or

- (b) Describe about simple tissues.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Enumerate economic importance of fungi.

Or

- (b) Write the salient features of pteridophytes and gymnosperms.

17. (a) Explain binomial nomenclature of plants.

Or

- (b) Describe floral characters and economic importance of cucurbitaceae.

18. (a) Write the botanical name, useful part and medicinal uses of neem tree.

Or

- (b) Write the medicinal uses of Acalypha and ginger.

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19. (a) Describe the pathway of glycolysis.

Or

- (b) Explain the mechanism of transpiration.

20. (a) Write in detail about the enzyme used in cloning.

Or

- (b) Describe about dihybrid cross.
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