



NAZ-003-001406 Seat No. _____

B. Sc. (Sem. IV) (CBCS) Examination

March / April - 2017

Botany : B - 401

(Applied Botany)

Faculty Code : 003

Subject Code : 001406

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :** (1) This question paper contains three questions. All are compulsory.
(2) Draw neat and labelled diagrams wherever necessary.
(3) Figures to the right indicate marks.

- 1 Write answer in very short : 20
- (1) Give full form of RUBISCO and PGA
 - (2) Give two genus name for Resin duct
 - (3) What is the function of Pollen tube?
 - (4) Define word: Mycorrhiza
 - (5) Minamata disease caused by?
 - (6) Give two genus name for Glandular hairs
 - (7) What is diameter of Clay type of soil?
 - (8) Who discover C_4 pathway?
 - (9) What is the function of Stock and Scion?
 - (10) Apical dominance cause by which PGR?
 - (11) Give any one importance of Calcium for Plant
 - (12) Difference between whip and cleft grafting
 - (13) Write down two method name for mode of propagation.
 - (14) Give Full form of BOD and COD.

- (15) Give name of India's first satellite
- (16) Which is main pollutant in acid rain?
- (17) Periderm consists of which three layers?
- (18) Who discover antibiotic Penicillin?
- (19) Give the full name of IAA and IBA
- (20) What is the nucleus arrangement in Typical Embryo Sac?

- 2** (a) Answer in brief : (any three out of six) **6**
- (1) Mention two factors for causing for abscission.
 - (2) What are two main functions of cytokinin?
 - (3) What are the two main benefits of Digestive gland?
 - (4) Explain the two main approaches for conservation of soil.
 - (5) Explain notch grafting.
 - (6) Point out on Causes of Global warming
- (b) Briefly answer the following questions : **9**
(any three out of six)
- (1) How CO₂ is fixed during C₄ cycle?
 - (2) Discuss the harmful effects of water pollution.
 - (3) Describe the benefits of bio fertilizers.
 - (4) Give the process of water erosion.
 - (5) Discuss the different biotechnological methods for plant improvement.
 - (6) Describe mechanism of ABA
- (c) Answer in detail : (any two out of five) **10**
- (1) Describe the Munch's theory of transport of organic substances.
 - (2) Describe Green Revolution
 - (3) Describe in detail - Soil profile.
 - (4) Write notes on remote sensing as a tool for the study.
 - (5) Give the measurable steps to reduce air pollution.

- 3 (a) Answer in brief : (any three out of six) 6
- (1) Give the importance of potassium for plant growth.
 - (2) State the importance of Floriculture.
 - (3) Define micronutrients and macronutrients with examples.
 - (4) What is the function of phyto hormones in plant?
 - (5) Give two differences between C₃ & C₄ Cycle
 - (6) What are tyloses?
- (b) Briefly answer the following questions : 9
(any three out of six)
- (1) Briefly discuss the process of soil erosion by wind.
 - (2) Discuss the action mechanism of Auxin.
 - (3) Green house effect.
 - (4) Write in short- Bisporic Embryo Sac
 - (5) Write in short - Inarch graft.
 - (6) Write short note on acid rain.
- (c) Answer in detail : (any two out of five) 10
- (1) Herbarium techniques
 - (2) Describe photosynthesis in C₃ plant.
 - (3) Write notes on skill required by plant breeders.
 - (4) Discuss the types and role of antibiotic for human welfare.
 - (5) Lenticels - describe.
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