

S.No. 1767

12UBT06

(For the candidates admitted from 2012-2013 onwards)

B.Sc. DEGREE EXAMINATION, NOVEMBER 2017.

Fifth Semester

Biotechnology

PLANT BIOTECHNOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Why MS media is frequently used for PTC?
2. Cytokinin.
3. Micrografting.
4. Edible vaccine.
5. Protoplast Culture.
6. Cybrids.
7. Terminator seeds.

8. Pollination.
9. Name a few compounds used as Cryoprotectants.
10. Secondary metabolites.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Write a short note on types of Media.
Or
(b) Write a brief note on sterilization techniques.
12. (a) Write a note on role of tissue culture in Forestry.
Or
(b) Write a short note on shoot tip culture.
13. (a) Give a brief note on protoplast fusion.
Or
(b) Explain about suspension culture.
14. (a) Write a short note on Androgenises.
Or
(b) What is Golden Rice? In what way it is different from the normal rice?

15. (a) Write a short note on gametoclonal variation.

Or

- (b) Describe Germ plasm Conservation in brief.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Give a detailed note on media preparation.
17. Write a detailed note on edible vaccine.
18. Explain about somatic embryogenesis.
19. Write a detailed note on embryo culture and embryo rescue.
20. Give a detailed note on secondary metabolites and their uses.