

4

S. NO.: 280

BATCH: 2014

Reg. No.:

END OF SEMESTER EXAMINATIONS, APRIL / MAY - 2017

ELECTIVE: APPLIED BIOTECHNOLOGY

SUBJECT CODE : 14UABO12

MAJOR : B.Sc. (BOTANY)

TIME : 3 HOURS

SEMESTER : VI

MAX. MARKS: 75

**SECTION A – ( 10 X 1 = 10 )**

**Answer ALL the Questions:**

1. Who is father of plant tissue culture?
2. What is meant by sterilization?
3. Define haploids.
4. What is Cryopreservation?
5. Explain enzyme immobilization.
6. What are biochips?
7. Define biogas.
8. Define SCP.
9. What are biofertilizers?
10. Explain about VAM.

**SECTION B – ( 5 X 5 = 25 )**

**Answer any FIVE Questions:**

11. Write notes on Synthetic seeds.
12. Give an account on pollen culture through plant tissue culture.
13. Explain the production of Penicillin.
14. Enumerate the petro plants.
15. Write notes on Trichoderma.
16. Explain about production and purification of cellulases.
17. Give an account on meristem culture.

**SECTION C – ( 5 X 8 = 40 )**

**Answer any FIVE Questions:**

18. How will you prepare the ex plant for plant tissue culture? Explain.
19. Give an account on somatic embryogenesis.
20. Write an essay on immobilization of enzymes and its applications.
21. Discuss on SCP obtained from algal and bacterial sources.
22. Write an essay on Bacillus thuringiensis.
23. Give an account on somatic hybridization.
24. What are the requirements needs for plant tissue culture laboratory? Explain.

\*\*\*\*\*