

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 2017
(Sixth Semester)

Branch- MICROBIOLOGY

APPLIED BIOTECHNOLOGY

Time Three Hours

Maximum: 75 Marks

SECTION-A (20 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10x2 = 20)

- 1 Ti-Plasmid.
- 2 Define plant tissue culture.
- 3 Ovulation.
- 4 Zebra fish.
- 5- Misnomer. * • ■
- 6 Define trade mark.
- 7 Explain - OLA.
- 8 M-Fish.
- 9 Hybridoma.
- 10 Toxoid vaccine.

SECTION - B (25 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 5 = 25)

- 11 a Give an account on stress tolerance. —
OR
b Comment on artificial seed production.
- 12 a What is invitro fertilization?
OR
b Comment on Gene knock out.
- 13, a Comment on public health ethics.
OR
b Write a short notes on insulin production.
- 14 a Write about the DNA chips and its applications.
OR
b Elaborate on gene deletion analysis.
- 15 a Give an account on types of vaccines used in commercial.
OR
b Write the short notes on in vivo gene therapy.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks (3 x 10 = 30)

- 16 •Explain in detail about agro bacterium mediated gene transfer methods.
- 17 Explain the production of any three transgenic animals.
- 18 Write about the steps involved in patenting of new discoveries.
- 19 Describe the steps involved in RFLP and its application.
- 20 Explain the importance of monoclonal antibodies and its production.

Z-Z-Z

END