

S.No. 1773

12UBT09

(For the candidates admitted from 2012 – 2013 onwards)

B.Sc. DEGREE EXAMINATION, NOVEMBER 2017.

Sixth Semester

Biotechnology

ANIMAL BIOTECHNOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Cell Culture
2. Organotypic culture
3. Synthetic media
4. Finite Cell Lines
5. Uses of Honey
6. Aquaculture
7. GIFT and ZIFT

8. Embryo splitting
9. Properties of stem cells
10. Gene Replacement.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Write a short note on Scope of Animal Cell Culture.

Or

- (b) Describe the Requirements for Animal cell culture.

12. (a) Describe suspension culture in brief.

Or

- (b) Write a note on Organ culture.

13. (a) Give a brief note on Commercial production of silk.

Or

- (b) Write a short note on Silk worm as a bioreactor.

14. (a) Describe invitro fertilization in brief.

Or

- (b) Write a note on Transgenic mice

15. (a) Give a brief note on Application of Stem cells.

Or

- (b) Write a short note on suicidal gene therapy.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Illustrate the laboratory design and layout of ATC lab in detail.
17. Give a detailed note on Disaggregation of Animal tissue.
18. Write a detailed note on Apiculture.
19. Illustrate Embryo transfer and Embryo splitting in detail.
20. Write a detailed note on Gene therapy.