

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc.(BT) (2013 to 2017) (Sem.-5)
ANIMAL CELL CULTURE AND BIOTECHNOLOGY
Subject Code : BSBT-301
Paper ID : [F0222]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Q.1 Define :

- i) Monolayer culture
- ii) Organ culture
- iii) Super-ovulation
- iv) *In vitro* Fertilization
- v) Secondary culture
- vi) Role of CO₂ Incubator
- vii) Plating efficiency
- viii) Split ratio
- ix) Hybridoma
- x) Contact Inhibition

SECTION-B

- Q.2 Differentiate between Primary and Secondary culture.
- Q.3 Write a note on Hybrid antibodies.
- Q.4 List Advantages and Limitations of Sub culturing.
- Q.5 Write a note on Scale up of Cell culture.
- Q.6 Discuss Recombinant protein production from cell culture.

SECTION-C

- Q.7 Write about the technique and applications of *In vitro* fertilization and Embryo transfer technology.
- Q.8 Discuss Hybridoma technology for monoclonal antibody production.
- Q.9 Elaborate on bioethical considerations and guidelines for cell culture research.

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