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BR—212—2016

FACULTY OF SCIENCE

M.Sc. (Second Year) (Third Semester) EXAMINATION

NOVEMBER/DECEMBER, 2016

(CBCS Course)

BIOTECHNOLOGY

Paper BT-XIII

(Animal Biotechnology)

(Monday, 21-11-2016)

Time : 2.00 p.m. to 5.00 p.m.

Time—Three Hours

Maximum Marks—75

N.B. :— (i) All questions are compulsory.

(ii) Draw neat and well labelled diagram wherever necessary.

1. What is culture media ? Discuss in detail physico-chemical properties of culture media. 15

Or

(a) Write a note on serum free media and its advantages. 8

(b) Comment on transgenic animals in livestock improvement. 7

2. Explain in detail Tissue Engineering. 15

Or

(a) Discuss in brief “Cytotoxicity Assays”. 8

(b) Write a note on organ culture. 7

3. Describe in detail hybridoma technology and its applications. 15

Or

(a) Discuss in brief “Cell Cloning”. 8

(b) Write a note on “Gene Knockout Technology”. 7

4. Explain in detail genetic regulation of embryonic development in drosophila. 15

Or

(a) Discuss about types of cleavage patterns. 8

(b) Write a note on collection and preservation of embryo. 7

P.T.O.

WT

(2)

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5. Write short notes on any *three* :

15

- (a) Structure of animal cell
- (b) Artificial media
- (c) Apoptosis
- (d) Baculoviruses
- (e) Transgenic Mice.

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