

Bachelor of Science (B.Sc.) Sixth Semester
B.Sc. 4505 - Biotechnology Paper-II (Animal Biotechnology)

P. Pages : 2

Time : Three Hours



GUG/W/18/1361

Max. Marks : 50

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1. Give the composition and significance of natural animal cell culture media and synthetic culture media in Animal cell culture. **10**

OR

What is animal cell line? Explain its maintenance and management.

2. What is programmed cell death? Explain measurement of cell death. **10**

OR

What is IVF technology? Explain embryo cloning IVF technology.

3. a) Give advantages and disadvantages of animal tissue culture? **2½**
b) What are the properties of primary animal tissue culture? **2½**
c) What is cell transformation? **2½**
d) Explain the mass insulin production. **2½**

OR

- e) What are physical parameter of animal tissue culture. **2½**
f) Comment on isolation of cells in animal tissue culture method. **2½**
g) What is cell synchronization? Explain. **2½**
h) Write note on mice-a transgenic animal. **2½**
4. a) Explain a process of animal transgenesis. **2½**
b) What is stem cell culture? Give importance. **2½**
c) Write note of behaviour of cells. **2½**
d) How cells communicates? Comment on. **2½**

OR

- e) What is contact inhibition in animal cell culture. **2½**
f) Write note on germplasm conservation. **2½**

g) What is cell cloning? Discuss. 2½

h) What is artificial insemination. 2½

5. Solve any ten.

a) How animal cells divide? 1

b) What is animal tissue culture? 1

c) What are supplements used in animal culture media. 1

d) Name any one method of cell isolation. 1

e) Define cell line? 1

f) What is explant in explant culture. 1

g) What is transformed cell? 1

h) Where stem cell is found in animal? 1

i) Give the meaning of synchronization? 1

j) Define vaccine? 1

k) What is zygote? 1

l) What is in vitro fertilization? 1
