

M.Sc. (Zoology) (C.B.C.S. Pattern) Sem-IV
PSCZOOT15.5 / PSCZOO15.5 Paper-XV : Special Group Cell Biology-IV
(Applied Biotechnology)

P. Pages : 1

Time : Three Hours



GUG/S/19/11443

Max. Marks : 80

- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Illustrate your answers with suitable diagrams wherever necessary.

1. Write a detail notes on genetically modified food their future implications. **16**

OR

Write notes on :

- a) DNA as drug target's
- b) Nanomaterial and it's application.

2. Give an account on causes, diagnosis and treatment of Parkinson's diseases. **16**

OR

Write notes on :

- a) Causes and treatment of hepatitis.
- b) Diagnosis and treatment of cystic fibrosis.

3. Write a detail notes on formation of blood cell and Haemopoietic stem cell. **16**

OR

Write notes on :

- a) Stem cells engineering.
- b) Types of stem cell.

4. Write detail notes on Indian patent laws and decent amendments with the example of patents in India. **16**

OR

Write notes on :

- a) Patent Search Methods
- b) Intellectual property rights.

5. Attempt the following. **16**

- a) Bio – safety
- b) Diabetes
- c) Stem cell therapy
- d) WTO
