

M.Sc. (Biotechnology) (NEP Pattern) Semester-IV
**STPG04BTH004 - Paper-I : Ethics, Patenting, Bioentrepreneurship and
Biostatistics**

P. Pages : 1

Time : Three Hours



GUG/S/25/16313

Max. Marks : 80

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- Notes : 1. All the questions are compulsory and carries equal marks.
2. Draw the diagram wherever it is necessary.

1. Explain benefits of biotechnology and discuss ethical issues in genetic modifications and food consumption. 16
- OR**
- Give in detail applications of-
- a) Human genetic rDNA research. 8
- b) Embryonic stem cells. 8
2. Differentiate between patent and trade mark with example. 16
- OR**
- Write notes on-
- a) Intellectual property rights. 8
- b) Biotechnology products. 8
3. What are the pillar's of bio-entrepreneurship? Write about factors necessary for it. 16
- OR**
- Write notes on-
- a) Promotion of bio-entrepreneurship. 8
- b) Biofertilizer company. 8
4. Describe different methods of sampling and sampling error. 16
- OR**
- a) Add a note on measures of dispersion. 8
- b) Explain mean and mode as a measure of central tendency. 8
5. Write a short notes on the following-
- a) Genetically engineered organism. 4
- b) Biosafety. 4
- c) Biotech company roadmap. 4
- d) Probability. 4
