

(LF 4266)

AUGUST 2014

Sub. Code: 4266

THIRD YEAR B.PHARM. EXAM
(Common to Regulations 2004 – IV year candidates)
PHARMACEUTICAL BIOTECHNOLOGY

Q.P. Code: 564266

Time: Three Hours

Maximum: 100 marks

I. Essay:

(2X20=40)

1. Define sterilization and classify them. Discuss moist heat sterilization with examples.
2. Discuss hybridoma technology with production and its application.

II. Short notes:

(8X5=40)

1. Growth curve of bacteria.
2. Gaseous sterilization.
3. Evaluation of disinfectant.
4. Gram staining.
5. Production of citric acid by fermentation method.
6. Enzyme linked immunosorbent assay.
7. Production of insulin by recombinant DNA (Deoxyribo nucleic acid) technology .
8. Types of biosensors.

III. Short Answers:

(10X2=20)

1. Define disinfectant.
2. Types of flagella.
3. Examples of gram – positive bacteria.
4. Pasterurisation.
5. Example of bacterial filters.
6. Common staining techniques
7. Examples of media used in animal cell culture
8. Define Toxoid
9. Give organism name of cholera vaccine.
10. Define Immobilization.
