P.T.O.

## Fourth Semester B. Pharm Examination

## PHARMACEUTICAL BIOTECHNOLOGY

Paper - T-4.4 ( USC - 35158)

P. Pages: 2

AV-2336

P. Pages: 2  Time: Three Hours]  [Max. Marks: 60			
1.	(a)	Define cell culture, Write detailed note on organ culture.	7
	(b)	Write detail note on cell.	5
2.	(a)	What is semiconservative replication. Explain Meselson and stahl e	xperiment.
	(b)	Define replication. Give different modes of replication and protein involved in replication.	s enzymes 5
3.	(a)	Define Transcription. Explain transcription in detail.	7
	(b)	Define Genetic code. Give its significance and characteristics.	5
4.	(a)	Define gene therapy. Explain with suitable examples.	7
	(b)	Give detailed note on Transformation of conjugation.	5
5.	(a)	Define antibiotics. How antibiotics are standardised?	7
	(b)	Define mutation factors affecting rate of mutation.	5

- 6. (a) Define Biotransformation. Give biotransformation process in relation with steroids.
  - (b) Write note on different types of reactions mediated by microorganisms. 5
- 7. (a) Define immobilization. Write note on different methods of enzyme immobilisation.
  - (b) Define enzymes and different factions affecting enzyme kinetics. 5