## S. P. College , Chandrapur. MODEL EXAM- 2016

## Microbiology (Part I )Sem VI Paper I

Time: 3 hrs Max Marks: 50

Note: All questions are compulsory and carry equal

Describe the importance of restriction enzymes and DNA ligases in cloning.	10
<b>OR</b> Discuss different methods of selection of clones.	10
Discuss method of construction of cDNA library & genomic library in detail.	10
OR	
Describe hybridoma technology. Give its application.	10
Give characteristics of cloning vectors.	2 :
Write short note on homopolymer tailing.	2 :
Give applications of PCR.	2
Write short note on gene therapy.  OR	2
Write short note on BAC.	2
Describe protoplast fusion.	2
Give Maxam and Gillbert method of DNA sequencing.	2
What are interferon? Give its application.	2
Explain shot gun method of gene isolation.	2
Describe in short colony hybridization technique.	2
Write short note on human genome project.	2
Explain with example Human Growth hormone.  OR	2
Write short note on pBR322 vector.	2
Give the biolistic method of rDNA transfer into suitable host.	2
Give an account on DNA finger-printing.	2
Write short note on genetically modified food.	2
Answer any 10	
Give two selection markers present in pBR322 vector  Give two characteristics of ideal host.	1 1
Name any two λ phage cloning vector.	1
Give examples of eukaryotic cloning host	1
Give the role of microinjection for transfer of rDNA.	ī
What are linkers and adaptors?	ī
What is DNA amplification?	1
What is genomic DNA?	ī
Define gene.	1
What are vaccines? Give examples.	1
Give applications of stem cells.	1

What is HAT medium?
-----ALL THE BEST------

1