S. P. College , Chandrapur MODEL EXAM- 2018 Recombinant DNA Technology Microbiology Sem VI Paper I

Time: 3 hrs Max Marks: 50

Note: All questions are compulsory and carry equal

marks.	
Describe different manipulative enzymes used in cloning. OR	10
Discuss different methods of selection of clones. Discuss method of construction of cDNA library and genomic library in detail.	10 10
OR	
Describe hybridoma technology. Give its application.	10
Give characteristics of E. coli as a 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 YAC.	2
Describe Electroporation technique for transfer of rDNA.	2
Give Sanger's 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. Answer any 10	2
Give two selection markers present in pBR322 vector.	1
Give two characteristics of ideal host.	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.	1
What are linkers and adaptors?	1
What is DNA amplification?	1
What is genomic DNA?	1
Define gene.	1
What are vaccines? Give examples.	1
Give applications of stem cells.	1
What is HAT medium?	1