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SVS - 329 B - 16

B.Sc. Vth Semester Degree Examination

Biotechnology (Opt)

(Recombinant DNA Technology)

Paper : 5.6

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates :

- 1) Answer **all** questions .
- 2) Draw diagrams wherever necessary

I Answer the following in brief

(15×1=15)

- 1) SV - 40
- 2) YAC
- 3) Shuttle Vector
- 4) MCS
- 5) DNA ligase
- 6) Palindromic sequences
- 7) Linkers
- 8) Staggered ends
- 9) Reverse Transcriptase
- 10) Protoplast fusion
- 11) Multiple copy number
- 12) Lac selection
- 13) Probe
- 14) RNA Primer
- 15) Genomic library

Section - B

II Write a short note on any **FIVE** of the following

(5×5=25)

- 16) Yeast based vectors
- 17) Linkers and Adapters
- 18) Gene cloning in E.Coli
- 19) Replica plate technique
- 20) CDNA library
- 21) Nucleic acid probes
- 22) Insertion of genes by shot gun method.

III Write an explanatory note on any **Four** of the following

(4×10=40)

- 23) Classification, types and applications of restriction endonucleases in r-DNA.
- 24) λ based and M13 Vectors.
- 25) Microinjection and liposome mediated gene transfer
- 26) Direct and indirect screening techniques.
- 27) Hybridisation techniques
- 28) Describe sanger and coulson's method of gene sequencing.

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