

MODEL EXAM- 2014
S. P. College , Chandrapur.
Microbiology (III) Paper II
Biotechnology and Bioinstrumentation

Time : 3 hrs

Max marks : 60

Note : All questions are compulsory and carry equal marks.

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|----------|---|--------------|
| 1 | Discuss the molecular basis of mutation | 12 |
| | OR | |
| | Give different methods of identification of transformed cells | 12 |
| 2 | Give production of insulin by genetic engineering process. | 12 |
| | OR | |
| | Discuss principle and application of uv-visible spectroscopy. | 12 |
| 3 | | |
| a | Discuss split genes. | 3 |
| b | Give the method for joining of DNA fragments. | 3 |
| c | Give short note on gene therapy. | 3 |
| d | Write short notes on gel electrophoresis. | 3 |
| | OR | |
| e | Define muton, recon and cistron. | 3 |
| f | Give short note on shuttle vector. | 3 |
| g | Discuss the hazards of genetic engineering techniques. | 3 |
| h | Write short notes on isotopic tracer techniques. | 3 |
| 4 | | |
| a | Discuss Griffith's experiment. | 3 |
| b | How rDNA is introduced into host cell. | 3 |
| c | Write short notes on biosensors. | 3 |
| d | Write short notes on thin layer chromatography. | 3 |
| | OR | |
| e | Discuss specialized transduction. | 3 |
| f | Write short note on RFLP. | 3 |
| g | Discuss protoplast fusion. | 3 |
| h | write short note on ion exchange chromatography. | 3 |
| 5 | | |
| a | What is recombinant. | 1 1/2 |
| b | What is transconjugant. | 1 1/2 |
| c | What is electroporation. | 1 1/2 |
| d | Define suicide vector. | 1 1/2 |
| e | Define biopesticide with example. | 1 1/2 |
| f | Define hybridoma. | 1 1/2 |
| g | What is Svedberg unit. | 1 1/2 |
| h | Define immunoelectrofocussing. | 1 1/2 |

ALL THE BEST