

Physiology (P.G.)**[CBCS]****M.Sc. Second Semester End Examination-2024****(Regular & Supplementary Paper)****PAPER- PHY-206 (Practical)****Full Marks: 50****Time: 02 Hrs***The figures in the right hand margin indicate marks**Candidates are required to give their answers in their own words as far as practicable**Illustrate the answers wherever necessary**(Use separate answer script for each unit)***Unit – 21****[Marks – 25]****[Applied Molecular Biotechnology Techniques]**

1. Write the principle of agarose gel electrophoresis.
Perform agarose gel electrophoresis of the supplied DNA sample and interpret your results.
3+3+2=8
2. Write down the principle of PCR. Write the steps of DNA isolation from a bacterial sample using phenol-chloroform method. 2+5
3. Submit your duly signed laboratory note books. 5
4. Viva-voce

Turn over

(2)

Unit – 22

[Marks – 25]

[Applied Microbiological Techniques]

1. Determine the catalase activity of the supplied bacteria and interpret your result. Write down the principle and procedure of the experiment. 2+2+2+2
2. Isolate single colony of the supplied bacterial culture by the streakplate method. Write down the procedure of the method applied. 2+2+2+1
[Plating- 2, Streaking -2, Procedure -2 Result -1]
3. Submit your duly signed laboratory note books. 5
4. Viva-voce 5
