NEW

Part-III 3-Tier

2018

PHYSIOLOGY

(Honours)

PAPER—VIII

(PRACTICAL)

Full Marks : 100

Time : 6 Hours

The figures in the right-hand margin indicate full marks.

Answer *all* questions.

1. Determine the dissolved CO_2 of the supplied water sample through titrimetric method and calculate the CO_2 concentration of your sample.

   Write down the principle, procedure of the method and interpret your result. 10

   [*Principle – 02, Procedure – 02, Result –03, Calculation – 01, Interpretation – 02*]

[Error Upto 10% – 03 ; Error Upto 20% – 02 ; Error Above 20% – 01]

2. Stain and identify the supplied bacterial sample by Gram Staining Method. Write the method with flow diagram and give one example of your finding. 10

[Staining – 03, Identification – 02, Flow Chart – 03, Example – 02]

3. Quantitate the supplied DNA solution by DPA method using the data supplied for the standard curve. 10

[Procedure – 02, Plotting of Standard Curve – 03, Calculation – 02, Result – 03]

[Error Upto 10% – 03 ; Error Upto 20% – 02 ; Error Above 20% – 01]

4. Determine the duration of amplitude of QRS complex and PR interval from the supplied ECG sample. 10

[QRS – 03, PR – 03, Interpretation – 04]

5. Determine the amount of Cholesterol in supplied blood sample by $FeCl_3$ Method and interpret your result. 20

[Principle – 03, Schematic Procedure – 04, Result and Calculation – 08, Interpretation – 05]

[Error Upto 10% – 08 ; Error Upto 10% – 20% – 06 ; Error Upto 20% – 30% – 05 ; Error Above 30% – 03]

6. Compute Standard Deviation and Standard Error Mean from the supplied data. 10

[*Reading and Tabulation – 03, Calculation – 03 + 03*]

7. Submit your diet survey repout authenticated by the concerned teacher / head of the department. 10

[*Report – 04, Remarks & Recommendation – 03, Viva on Report – 03*]

8. Submit your Laboratory Note Books duly signed by the respective teachers. 10

[*Enuironmental – 01, Microbiology – 02, Biotechnology – 01, Clinical – 02, Blood Biochemistry – 02, Biostat – 02*]

9. Viva-Voce. 10
