NEW

Part-III 3-Tier

2017

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 O_2 of the supplied water sample through tituimetric method and calculate the O_2 concentration of your sample.

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

   [*Principle – 02, Procedure – 02, Result & Calculation – 04, Interpretation – 02*]

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

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

3. Quantitate the supplied protein solution by Folin-Ciacalteau method using standare curve. 10

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

Upto 10% – 03

Upto 20% – 02

Above 20% – 01

4. Determine the duration of PR interval and heart rate from the supplied ECG sample. 10

[Duration of PR interval – 03, Heart Rate – 03, Interpretation – 04]

5. Determine the amount of inorganic phosphate in supplied serum sample by Fiske & Subbarow Method and interpret your result. 20

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

Upto 10% – 08

Above 10% – 20% – 6

Above 20% – 30% – 05

Above 30% – 03.

6. Compute Spearman's Rank Difference Co-relation co-efficient from the supplied data 10

[*Reading and Tabulation – 02, Calculation – 06, Interpretation – 02*]

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

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