

NEW
Part-III 3-Tier
2019

PHYSIOLOGY

(Honours)

PAPER—VIII

(PRACTICAL)

Full Marks : 100

Time : 6 Hours

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

Candidates are required to give their answers in their own words as far as practicable.

Answer all questions.

- 1. Determine the dissolved O_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]

(Turn Over)

2. Identify the supplied bacterial sample by Gram Staining Method. Write the method with flow diagram. 10

*[Staining - 04, Identification—02, Interpretation - 02,
Flow Chart - 02]*

3. Quantitate the supplied protein solution by Biuret method using the data supplied for the standard curve. 10

*[Staining - 03, Identification - 02,
Flow chart - 03, Example - 02]*

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

4. Determine the duration of amplitude of QRS complex and duration of R-R interval. Interpret your result. 10

[QRS - 03, R-R interval- 03, Interpretation - 04]

5. Determine the amount of inorganic phosphate in the supplied serum sample by Fiske-Subbarow method. Write down the principle, Schematic procedure. Interpret your results. 20

*[Principle - 03, Schematic Procedure - 04,
Observation and Calculation - 03, Results - 10]*

[Error Upto 5% - 10 ; Error above 5% to 10% - 08 ; Error above 10% to 15% - 06 ; Error above 15% to 20% - 03, Error above 20% - 01]

6. Find out significance of deviation in the supplied data set with the help of CHI SQUARE test. 10

[*Reading and Tabulation - 04, Calculation - 06*]

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

[*Report - 04, Remarks and Recommendation - 03, Viva on Report - 03*]

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

[*Environmental - 01, Microbiology - 02, Biotechnology - 01, Clinical - 02, Blood Biochemistry - 02, Biostat - 02*]

9. Viva-Voce. 10