OLD

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. Record normal intestinal movements of rat using kymograph and Dale's Bath. Record the effect of acetyl choline on normal intestinal movements. Explain the physiological basis. Give the interpretation of your recording.

[Drum spnoke – 02, Experimental Setup – 05, 1st Normal Recording – 07, Effect of Acetylcholine – 03, Past-Effect Normal – 03, Interpretation – 05]

(Turn Over)

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. 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]

4. (a) Prepare the pneumographic record of respiratory movements in the following conditions. 15

(i) Breath holding (30 secs)

(ii) Hyperventilation (10 – 15 secs)

Submit your results with interpretation.

[Setup – 03, Pneumographic Recording : Normal, effect of breath holding, normal, hyperventilation normal – (2 + 2 + 2 + 2), interpretation for each condition – 02 × 02 = 4]

(b) Measure the waist and hip circumference and compute the waist–hip ratio with interpretation. 5

[Waist Circumference – 01, Hip Circumference – 01, Waist-Hip Ratio – 02, Interpretation – 01]

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

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

6. Field Survey Report. 05

7. Lavoratory Note Book. 5×2

8. Viva Voce. 10
