

**NEW**

**Part-III 3-Tier**

**2016**

**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 using Kymograph and Dale's bath. Record the effect of anoxia on normal intestinal movement. Explain the physiological basis and give the interpretation of your recording. 25

*(Drum smoke — 02, Experimental set up — 05,  
1st Normal Recording — 07, Effect of anoxia — 03,  
Post-Effect normal — 03, Interpretation — 05.)*

*(Turn Over)*

2. Stain and identify the Gram positive bacteria in a supplied media by gram staining method. Write the method with flow diagram and one example of your findings. 10

(*Staining — 03, Identification — 02, Flow chart — 03, Example — 02.*)

3. Determine duration and amplitude of QRS Complex of supplied ECG. 10

(*Duration — 03, Amplitude — 03, Interpretation — 04.*)

4. (a) Determine the resting blood pressure and Heart Rate of your subject after 10 minutes rest. Give exercise by the Harvard Step Test for 180 seconds. Record the heart rate just after exercise for 30 secs ; record the recovery heart rates each of 1 min. interval — 30 sec. terms — upto total recovery (maximum of 10 mins.) ; present your measured values in a tabular form. Also present it graphically. Record the blood pressure after total recovery of heart rate (maximum of 10 minutes). Interpret your result. 15

(*Recording of HR & BP before exercise — 04, Recovery HR — 04, Tabulation — 02, graphical presentation of recovery HR — 03, post-exercise recovery BP — 02.*)

- (b) Measurement and mark the point of Acromion and chest circumference.

$2 \times 2 \frac{1}{2}$

5. Computer the provided raw data in a tabular form and find the level of significance by students t-test of sample. Interpret the results. 10

*(Data in tabular form with heading — 02, Correct formula — 02, Stepwise computation and interpretation — 06.)*

6. Field Study Report. 05

7. Laboratory Note Books, 5×2

8. Viva-Voce. 10
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