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BSc/Part-II/PHY(G)-III/(Prac)

2019

Part – II

PHYSIOLOGY

(General)

Paper – III

(Practical)

Full Marks – 100

Time : 6 Hours

*The figures in the right hand margin indicate marks.
Candidates are required to give their answers in
their own words as far as practicable.*

1. Identify five, histological sections focussed under the microscopes, marked as A, B, C, D and E. Write one unique identifying character for each section.

Identifying character = 01

Correct Identification = 01

Note : (If identification is incorrect no credit will be given for identifying character)

10

P.T.O.

2. Prepare and stain the Haenin crystal of your own blood and focus under microscope. Draw a labelled diagram of your observations.

Staining	=	06
Focusing	=	02
Identification	=	02
Diagram	=	02 12

3. Prepare and stain the muscle fibre from the supplied sample of skeletal muscle and focus under microscope. Draw the labelled diagram of your observation. 12

Preparation of single fibre	=	4
Staining	=	3
Focussing	=	1
Identification	=	2
Diagram	=	2

4. Identify the sample provided to you by performing the sequential qualitative tests. Write the tests performed by you in a sequential manner. Perform and write the confirmatory test separately to obtained your result. 15

Performance of sequential test	=	6
Performance of confirmatory test	=	3
Table of the tests performed	=	4
Confirmatory test	=	2

5. Determine the latent period, contraction period, relaxation period and maximum height of contraction from the supplied sample of muscle curve of a toad. Interpret your result. 6

Latent period = 01

Contraction period = 01

Relaxation period = 01

Max. height of contraction = 01

Interpretation = 02

6. Calculate the PFI of the supplied subject by Harvard Step Test and prepare a graphical presentation of your result. Interpret your answer. 15

Principle = 2

Procedure = 2

Normal pulse rate = 2

P.R just after exercise = 2

Recovery P.R = 2

Graph = 3

Interpretation = 2

7.	Submit Diet Survey Report.	.	10
	Report	=	5
	Viva-voce	=	5
8.	Laboratory Note Book		10
	Biochemistry	=	4
	Histology	=	3
	Experimental Physiology and Human Experiment	=	3
9.	Viva-voce		10
