Total No. of pages: 4

## 2019

Part – II

PHYSIOLOGY

(Honours)

Paper – V

(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.

 Identify the histological sections of permanent slides focussed under the microscopes, marked as A, B, C, D and E. Give two appropriate identifying character for each section.

Unique identifying character  $(2 \times \frac{1}{2}) = 01$ 

Correct Identification = 01

Note: [No credit will be given for identifying character with incorrect identification]

5×2=10

Stain, mount & observe Node of Ranvier under microscope. Stain with silver nitrate. Draw & label the observed field of focus.

P.T.O.

Staining	=	03
Mounting	=	02
Focussing	=	02
Drawing	=	02
Labelling	=	01
<ol> <li>Properly stain the supplied paraffin section with haematoylin and eosin as per working schedule.</li> <li>Mount the slide clearly focus under low power (100x) of microscope, identify with two unique identification characters. Submit the slide to the</li> </ol>		
examiner with authentication.		
Deparaffination	=	01
Staining (03 + 03)		06
Mounting		01
Clearing	=	01
Identification	=	01
4. Prepare a blood film of your own blood. Stain it		
with Leishman stain and observe under high power		
(400x) of microscope. Focus, identify a monotype.		
Measure its diameter using micrometer scale. 10		
Blood film preparation	=	01
Staining	=	04
Focussing & Identification	=	: 02
Measurement with tabular r	esult =	: 03
BSc/Part-II/PHY(H)-V(Prac) 2		Contd.

histological slides duly signed by the respective 5×1 teacher. Identify the supplied unknown sample by performing 6. the sequential qualitative tests. Write down the tests in a sequential manner. Perform and write specific 10 confirmatory test. 06 Sequential tests 03 Confirmatory tests 01Correct identification

Submit a slide box containing five (5), HE stained

- Quantitatively estimate chloride by Mohr's method. 7. Write down the procedure in flow-chart form. Write the observations in tabular form. Calculate. 10 Interpret your result.
- 03 Procedure 02 Observation 02 Calculation 02 Result 01 Interpretation 04 marks upto 5% [Errors 03 marks 5 - 15%02 marks 15 - 20%no mark] Above 20%

5.

8. Estimate total protein by quantitative biuret reagent method from supplied sample of pulses. Write the method results and interpret the result. Method 04 06 Result 03 Interpretation Observation and calculation 02 10 9. Submit Laboratory Note Books 04 Biochemistry 06 Histology 10. Viva-voce 10