# OLD

## Part II 3-Tier

## 2016

## NUTRITION

## (Honours)

**PAPER—V**

**(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.*

**Unit—09**

[Marks—50]

**(*Physiology*)**

1. Identify with minimum of two main characteristics of given five (5) histological Permanent slides marked A — E, focussed under the compound microscope. 5×3

*[Marks distribution : (a) two main characters of each — 2×5, (b) correct identification — 1×5]*
*Marks will be deducted for spelling mistake.*

2. Make a thin film of your own blood, stain it suitably and identify an tetralobed neutrophil under high power of compound microscope. Draw a labelled diagram of your observation. 15

*[Marks distribution : (a) thin blood flim — 3, (b) contrast staining — 4, (c) correct identification — 4, (d) Correct labelled diagram of your focussed field — 4]*

3. Measure the blood Pressure and pulse rate of the subject provided to you at the sitting condition and intepret your result. 10

*[Marks distribution : (a) Personnel data with correct units of the subject— 2, (b) Correct blood Pressure— 4, Correct PR— 2, (c) Interpretation— 2]*

** No marks will get forcorrect units.*

4. Submit your laboratory note books duly signed by the teachers on regular basis of Practical works as per syllabus. 5

*[Marks distribution : (a) Histological slides — 2, (b) Haematology & human physiology — 3, *More weightage will get regular signature as well as all experiments. * No marks without signature.]*

5. Viva-Voce. 5

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## Unit—10

[Marks—50]

## *(Nutritional Biochemistry)*

**6.** Identify the specific biomolecule present in unknown supplied sample by sequential qualitative experiments with confirmative test. 10

*[Marks distribution : (a) sequential tests — 5, (b) correct identification — 2, (c) correct confirmatory test description — 3]*

**7.** Estimate lactose present in supplied milk sample with principle, schematic protocol. Interpret your result. 15

*[Marks distribution : (a) Principle — 2, (b) Schematic protocol— 2, (c) Result & tabulation— 2, (d) Calculation— 2, (e) Accurate amount as per error— 5 (Error upto 5% –5, Error above 5%— 10%—3, Error above 10%—15%—2, Error above 15%—0), (f) interpretation–2]*

**8.** Estimate of the percentage of ascorbic acid present in supplied sample with schematic protocol and interpret your result. 15

*[Marks distribution : (a) principle — 2, (b) schematic protocol—2, (c) result & tabulation—2, (d) calculation—2, (e) accurate amount as per error—5 (Error upto 10%—5, Error upto 10% — 20% —3, Error above 20% – 2, (f) Interpretation—2]*

**9.** Submit your laboratory note books duly signed by the teachers on regular basis of Practical works as per syllabus. 5

*[Marks distribution : (a) Qualitative biochemistry — 2, (b) Quantitative biochemistry— 3]*

**10.** Viva-voce. 5

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