

OLD
Part II 3-Tier

2017

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 two prominent characters of given permanent histological slides marked A—E, focussed under the compound microscope. 5×3

[Marks distribution : (a) Prominent two characters in each slides — 2×5, (b) Correct identification — 1×5]

Marks will be deducted for spelling mistake.

(Turn Over)

2. Make a thin film of your own blood, stain it and identify a monocyte under microscope. Draw a labelled diagram of your observation field. 15

*[Marks distribution : (a) thin film — 4,
(b) contrast staining — 4,
(c) correct identification — 4,
(d) labelled diagram — 3]*

3. Measure the Blood Pressure and Pulse rate of a subject provided to you and intepret your results. 10

*[Marks distribution : (a) Personnel information of the subject — 2, (b) Correct Blood Pressure — 4,
(c) Pulse rate — 2, (d) 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

Unit—10**[Marks—50]****(Nutritional Biochemistry)**

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

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

7. Estimate the acid value of the supplied oil sample with principle, procedure and interpretation of your result.

15

[Marks distribution : (a) Principle — 2,
(b) Procedure — 2, (c) Result \bar{c} tabulation — 2,
(d) Both Calculation — 1+1,
(e) Accurate amount as per error— 5
(Error upto 5% — 5, within 5% - 10% — 3,
within 10% - 15% — 2, exceeding 15% — 0),
(f) interpretation—2]

8. Estimate of calcium percent in the supplied milk sample with principle, procedure and interpret your result.

15

- [Marks distribution : (a) Principle — 2,
(b) Procedure — 3, (c) Result with tabulation — 2,
(d) Calculation — 1,
(e) Accurate amount as per error— 5
(Error upto 5% — 5, within 5% - 10% — 3,
within 10% - 15% — 2, exceeding 15% — 0),
(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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