

**NEW**

**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]

***(Nutritional Physiology & Anthropometry)***

1. Identify with one prominent character of given each of five (5) permanent histological slides marked A—E, focussed under the compound microscope. 5×2

[Marks distribution : (a) one main and appropriate character in each slide — 1×5,

(b) correct identification — 1×5

\* Marks will be deducted for spelling mistake.]

*(Turn Over)*

2. Determine the blood haemoglobin level from the supplied sample by cyanmethemoglobin method. 10

[Marks distribution : (a) Principle — 2,  
(b) Result and calculation — 5+1  
(Error upto 5% — 5, within 5% - 10% — 4,  
within 10% - 15% — 2, exceeding 15% — 0)  
(c) Interpretation — 2]

3. Assess the nutritional status of the subject by measuring MUAC and W/H ratio. 10

[Marks distribution : MUAC measurement — 2,  
Waist measurement — 2, Hip measurement — 2,  
Reference value and Interpretation — 2+2]

4. Plot a growth curve from supplied data as per specification in the provided card (Picked up by lottery). 5

[Marks distribution :  
(a) Perfect Plotting with remarks — 3,  
(b) Interpretation — 2]

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

[Marks distribution : (a) Histology & Haematology—3,  
(b) Anthropometry & Grow chant—2,

\* More weightage will be given for regular signature and overall coverage of the practical work in the syllabus.]

6. Viva-Voce. 10

**Unit—10**

[Marks—50]

**(Nutritional Biochemistry)**

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

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

8. Determine acid value of supplied butter / oil sample with principle, protocol (schematic flow chart) and interpret your result. 15

[Marks distribution : (a) Principle — 2,  
(b) Protocol — 2, (c) Result with tabulation  
of readings — 2, (d) Calculation — 2,  
(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. Estimate the amount of calcium present in supplied sample with principle, protocol (schematic flow chart) and interpret your result. 10

[Marks distribution : (a) Principle and protocol — 2,  
(b) Tabular presentation of reading — 1,

(c) Calculation — 1,

(d) Accurate result / amount as per error — 4,  
 (Error upto 5% - 4, within 5% - 10% - 3,  
 within 10% - 15% - 2, exceeding 15% - 0),

(e) Interpretation — 2]

10. 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.

\* More weightage will be given for regular signature and overall coverage of the practical work in the syllabus.]

11. Viva-voce. 10