

14. Write briefly on Sickle-cell anaemia. 4
15. State the dietary management of megaloblastic anaemia. 4
16. State the dietary guideline of Wilson's disease with special reference to dietary copper. 4

Subgroup – C(b)

17. State two bio-sensors of each of cardiovascular disorders and renal disorders. 4
18. 'One gene-one enzyme' – justify the hypothesis from the point of inborn error of metabolism. 4
19. 'Food allergy is an adverse immune response' – elaborate briefly. 4
20. Discuss the etiological features of uremia. 4
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NEW
3-Tier
2015
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 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]

(Turn Over)

2. Make a thin film of your own blood, stain it suitably and count the percentage of Lymphocyte from your focused field with interpretation. 3+4+6+2

[Marks distribution : (a) thin film — 3, (b) contrast staining — 4, (c) Tally marks counting \bar{c} percentage calculation of Lymphocyte — 6, (d) Interpretation — 2]

3. Identify any two abnormal constituents (glucose / protein / acetone / bile pigments) present in supplied urine sample by proper qualitative test with interpretation. 4+4+2

[Marks distribution : (a) correct identification with Perfect tests for two constituents — 2×4 , (b) Interpretation for two constituents — 2×1]

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

[Marks distribution : (a) Histological slides — 2, (b) others experiments as per syllabus — 3.

* Regularly signed L.N.B's will get more credit.

* No marks will be given without signature of the teachers.]

5. Viva-Voce. 5

Unit—10

[Marks—50]

(Nutritional Biochemistry)

6. Identify the specific Carbohydrate / Protein / Fat compound present in unknown supplied sample by proper colour reaction qualitative test. 10

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

7. Estimate the acid number of the supplied oil sample with principle, schematic procedure of the method and interpret your result. 15

[Marks distribution : (a) principle — 2, schematic
procedure — 2, result with tabulation — 3,
calculation — 1, accurate amount — 5]

(Error upto 10% — 5 marks, Error above 10% - 20% —
3 marks, Error above 20% — 2 marks and
interpretation — 2]

8. Estimate the percentage of chloride present in supplied table salt by titrimetric method, mentioning with principles, procedure of the method through flowchart and interpret your result. 15

[Marks distribution : (a) principle — 2, flowchart
procedure method — 2, result \bar{c} tabulation — 2,
calculation — 1, accurate amount — 6]

(Error upto 10% — 6 marks, Error above 10% - 20% —
4 marks, Error above 20% — 2 marks and
interpretation — 2]

9. Submit your laboratory note books (LNB) duly signed by the teachers on regular basis of Practical works.

5

[Marks distribution : (a) *Qualitative analysis* — 2,
(b) *Quantitative assessment* — 3.

* Regularly signed L.N.B's will get more credit.

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10. Viva-voce.

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