

**OLD**

**Part-II 3-Tier**

**2016**

**NUTRITION**

**(General)**

**PAPER—III**

**(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.*

*Answer all questions.*

**Unit—05**

**[Marks—50]**

1. Identify two (2) unknown nutrients present in the supplied samples by sequential biochemical qualitative

*(Turn Over)*

tests with a confirmative test for each. 10×2

*[ Marks distribution : Sequential tests—5×2, Correct identification—2×2, Confirmative test—3×2 ]*

2. Identify any one nutrient mention in the card (picked up by lottery), present in the supplied food stuff by qualitative tests. 5

*[ Marks distribution : Correct test with description—3, Correct identification—2 ]*

3. Identify any two adulterants present in the supplied food stuffs by qualitative biochemical tests. 5×2

*[ Marks distribution : Correct tests for two—3×2, Correct identification of two adulterants—2×2 ]*

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

*[ \* More credit will get regular signature as well as on all experiments,*

*\* No marks without signature of the teachers ]*

5. Viva-voce. 10

**Unit—06****[Marks—50]**

6. Determine the percentage of haemoglobin present in blood of a subject provided to you by Sahli's haemoglobinometer with interpretation. 5

*[Marks distribution : Correct method—2,  
Result with units and interpretation—2+1]*

7. Estimate the percentage of Fructose in the supplied sample by Benedict's quantitative method and mention Principle and Procedure of the method. 15

*[Marks distribution : Principle—2, Procedure—2,  
Result with units and tabulation—2, Calculation—1,  
Error upto 5%—8, Error above 5% to 10%—6,  
Error above 10% to 15%—4, Error above 15%—2]*

8. Calculate the daily energy requirement directly of your own consideration of different physical activities (Non-occupational, occupational & sleep) and after calculation of BMR by ICMR prediction equation (1989) as well as BSA by DuBoi's formula. 10

*[Marks distribution : Personnel data—1,  
BMR calculation—2, BSA calculation—2,*

*Energy calculation during sleep—1½,*

*Occupational Energy—1½, Non-occupational Energy—2]*

9. Prepare a moderate-cost tiffin for school children with supplied ingredients and calculate present market value.

5

*[ Marks distribution : Correct preparation of ingredients & presentation (look, taste, etc.)—3,*

*Present market value calculation—2]*

10. Submit your Laboratory note book duly signed by your teachers on regular basis of Practical Works as per syllabus.

5

*[ \* More credit will get regular signature as well as on all experiments,*

*\* No marks without signature of the teachers]*

11. Viva-voce.

10

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