2019

B.Sc. (Honours)

5th Semester Examination

PHYSIOLOGY

Paper - DSE1-P

Full Marks : 20 Time : 3 Hours

The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.

Human Nutrition and Dietetics

Answer any *one* question selecting by lucky draw.

1. Estimate the quantity of Vit-C from lemon juice by using titrimetric method.

   (Principle - 1, Procedure - 1, Reading & Calculation - 1, Result - 4, Interpretation - 1)   8

2. Identify any two food adulterants from the following:

   (a) Dalda from butter.

   (b) Starch from milk.

   [Turn Over]

(c) Metanil yellow from turmeric powder. $2 \times 2 = 4$

3. Submit a diet survey report.   3

4. Laboratory Note Book.   2

5. Viva-voce.   3

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Community Nutrition and Public Health

Full Marks : 20   Time : 3 Hours

Answer any *one* question selecting by lucky draw.

1. Estimate percentage of lactose from milk by Benedict's method and interprete your result.

   [Principle - 2, Procedure - 2, Result - 3, Calculation - 2, Interpretation - 1]

   Error upto 10% - 3

   upto 15% - 2

   upto 20% - 1

   above 20% - 0   10

2. Submit diet survey report (hand-written) of a family (as per ICMR specification) on the basis of field survey as per syllabus.

   [Report - 3, Viva - 2]   5

3. Laboratory Note Book.   2

4. Viva-voce.   3

_____   *[Turn Over]*

Clinical Hematology

Full Marks : 20   Time : 3 Hours

Answer any *one* question selecting by lucky draw.

1. Quantitatively estimate the amount of haemoglobin from supplied blood sample by a suitable method. Write down its principle and interprete your results.

   [Hb estimation - 5, Principle - 2, Interpretation - 1]

   $$5+2+1=8$$

2. Determine the volume of packed cell from supplied blood sample. Write down its principle and interprete your results.

   [Volume determination - 4, Principle - 2, Interpretation - 1] $4+2+1=7$

3. Laboratory Note Book.   2

4. Viva-voce.   3

(5)

Biostatistics

Full Marks : 20   Time : 3 Hours

Answer any *one* question selecting by lucky draw.

1. Compute mean, median, standard deviation and standard error of the supplied data sample through lottery.

   [Calculation of mean - 3, Calculation of median - 3, Calculation of standard deviation - 6, Calculation of standard error - 3]   15

   Note : Statistical data samples will be supplied in the examination centre.

2. Laboratory Note Book.   2

3. Viva-voce.   3