

F.Y. B.SC. (NURSING) (2007 COURSE) : WINTER - 2017
SUBJECT: NUTRITION & BIOCHEMISTRY

Day : Thursday
Date : 05/10/2017

W-2017-3731

Time: _____
Max. Marks: 15

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Put a tick mark in appropriate box.
- 3) Use **BLACK/BLUE** ball pen only.
- 4) Section – I should be completed within **15** minutes.
- 5) Each questions carry **ONE** mark.
- 6) Students will not be allotted marks if he/she overwrites, strikes, or put ink or cross marked.

Seat No. _____

Total Marks Obtained: _____

Jr. Supervisor's Signature. _____

Examiners Signature: _____

SECTION – I

- 1) The milk, cheese and yogurt are important for _____
 - a) Strong bones
 - b) Teeth
 - c) Muscles
 - d) All of the above
- 2) The mineral essential for healthy red blood cells is _____.
 - a) Iron
 - b) Magnesium
 - c) Iodine
 - d) Calcium
- 3) Grilling uses which source of heat transfer _____.
 - a) Conduction
 - b) Radiation
 - c) Convection
 - d) Electromagnetic radiation
- 4) _____ is an example of a hydrogenated fat.
 - a) Butter
 - b) Margarine
 - c) Olive oil
 - d) Yogurt

P.T.O.

- 5) Vitamin A prophylaxis programme is initiated in _____.
- a) 1970
 - b) 1960
 - c) 1958
 - d) 1980
- 6) The sugar present in DNA is _____.
- a) Ribose
 - b) Erythrose
 - c) Glucose
 - d) Sucrose
- 7) 1 gram of protein gives _____.
- a) 4 Kcal
 - b) 5Kcal
 - c) 3Kcal
 - d) 8Kcal
- 8) Pellagra is caused by deficiency of _____.
- a) Riboflavin
 - b) Biotin
 - c) Thiamine
 - d) Niacin
- 9) One of the symptoms of scurvy is _____
- a) Odema
 - b) Pigeon chest
 - c) Swollen gums
 - d) Swollen legs
- 10) The sunshine vitamin is _____.
- a) Vitamin A
 - b) Vitamin B
 - c) Vitamin C
 - d) Vitamin D

- 11) Starch is a main source of _____ in the human diet.
- a) Vitamin
 - b) Carbohydrate
 - c) Protein
 - d) Lipid
- 12) The breakdown of glucose to _____ is called glycolysis.
- a) Pyruvic acid
 - b) Phosphoenol pyruvate
 - c) Glyceraldehyde
 - d) Lactic acid
- 13) In protein structure, the α -helix and β -pleated sheet are examples of _____
- a) Secondary structure
 - b) Quaternary structure
 - c) Tertiary structure
 - d) Primary structure
- 14) An allosteric enzyme responsible for controlling the rate of TCA cycle is
- a) Isocitrate dehydrogenase
 - b) Malate dehydrogenase
 - c) Aconitase
 - d) Fumarase
- 15) Lactate dehydrogenase is a/an _____.
- a) Isomerase
 - b) Ligase
 - c) Lyase
 - d) Oxidoreductase

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SUBJECT: NUTRITION & BIOCHEMISTRY

Day : Thursday
Date : 05/10/2017

Time: 09.00 A.M. TO 12.00 NOON
Max. Marks: 60

W-2017-3731

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION – II [Nutrition]

- Q.1** Answer **ANY FIVE** of the following: **[15]**
- a) Describe preventive measures for food adulteration.
 - b) Explain about balanced diet.
 - c) Explain the factors affecting food and nutrition.
 - d) Write a note on food preservation.
 - e) Write a note on nutrients.
 - f) List down functions of iron and four food sources rich in iron.
 - g) Explain the dietary sources of protein.
- Q.2** Answer **ANY TWO** of the following: **[20]**
- a) Define BMR. Explain any eight factors affecting it.
 - b) How fats are digested and absorbed in our body?
 - c) Define electrolytes. Explain electrolyte imbalance.
 - d) List down cooking methods. Explain any three cooking methods in detail.

SECTION – III [Biochemistry]

- Q.3** Write short notes on **ANY FIVE** of the following: **[15]**
- a) Monosaccharides
 - b) Cholesterol
 - c) Biological importance of proteins.
 - d) Metabolic acidosis.
 - e) Classification of enzymes.
 - f) Ribosomal RNA.
 - g) Classification of immunoglobulins.
- Q.4** Define enzymes. Discuss factors affecting enzyme activity. **[10]**

OR

Write note on:

- a) Glycolysis
- b) Structural organization of proteins.