

4651**B.Sc. (Nursing) (First Year)****Examination, 2020****ANATOMY AND PHYSIOLOGY****Paper : I***Time : Three Hours] [Maximum Marks : 75***Section-A****(Anatomy)**

1. (a) Explain the structure of lungs with diagram. 8
- (b) Write about Bone Formation and growth. 7
2. (a) Explain the structure of neurons with diagram. 8
- (b) Structure of breast. 7

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(2)

3. Write short note on any **one** of the following: 7

- (a) Structure of Ear
- (b) Spleen
- (c) Muscles of respiration

Section-B

(Physiology)

4. (a) Explain about physiology of Muscle Contraction. 8
- (b) Describe about Cardiac Cycle. 7
5. (a) Write about metabolism of Carbohydrates. 8
- (b) Explain mechanism of urine formation. 7
6. Write a short note on any **one** of the following: 8 each
- (a) Circulation of lymph

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(b) Function of Thyroid gland

(c) Nerve-impulse mechanism

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B.Sc. (Nursing) (First Year)

Examination, 2020

Nutrition and Biochemistry

Paper : II

Time : Three Hours] [Maximum Marks : 75

Section-A

(Nutrition)

(Long Answer Type) 45 Marks

1. (a) Define Carbohydrate. Write down classification of Carbohydrate in detail. 8
- (b) Discuss RDA, dietary sources & function of Carbohydrate. 7
2. Write in brief on any **four** of the following:
5×4=20
 - (i) BMI

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- (ii) Nutritional problems in India
- (iii) Digestion, absorption and metabolism of protein
- (iv) Functions of vitamin
- (v) Balance diet
- (vi) National iodine deficiency disorder programme.

Objective Type

3. Match the followings : 1×5=5

- | | |
|---------------------|-----------------------------|
| (a) Cyanocobalamine | (1) Vitamin B ₂ |
| (b) Scurvy | (2) Vitamin D |
| (c) Riboflavin | (3) Vitamin C |
| (d) Rickets | (4) Vitamin B ₁₂ |
| (e) Protein | (5) Vitamin B ₆ |
| | (6) Glucose |

4. Fill in the blanks : 1×5=5

- (a) A _____ Solution that has lower solute concentration compared to another solution.

(3)

- (b) Glucose is an example of _____.
- (c) Water soluble vitamin is _____.
- (d) _____ is a severe form of protein deficiency.
- (e) Prevention of food adulteration act launched in year _____.

Section-B

(Biochemistry)

(Long Answer Type) 30 Marks

- 5. (a) Draw labelled diagram of fluid mosaic model. 5
- (b) Write down difference between Prokaryotic and Eukaryotic cell. 5

OR

- (a) Discuss the TCA cycle 5
- (b) Explain glycogenesis in detail 5

(4)

Short Answer Type:

6. Write short notes on any **three**: $5 \times 3 = 15$
- (a) Beta oxidation of fatty acid
 - (b) Lipoprotein
 - (c) Urea cycle
 - (d) Water soluble vitamin

Objective Type:

7. Fill in the blanks : $1 \times 5 = 5$
- (a) _____ are known as suicidal bag of the cell.
 - (b) The disaccharide sugar found in milk is _____.
 - (c) Total ATP Production from one molecule of glucose is _____.
 - (d) _____ is hardening & narrowing of arteries from fat, cholesterol and other substance plaques.
 - (e) Fat is made of glycerol and _____.

4654**B.Sc. (Nursing) (First Year)****Examination, 2020****PSYCHOLOGY****Paper : IV***Time Allowed: Three Hours] [Maximum Marks : 75*

1. (a) Define learning and write down the law of learning. 05
- (b) Discuss the type and method of learning. Write down the factors promoting effective learning. 10
2. (a) What is the Defence Mechanism? List down the various types of Defence Mechanism. Write in detail about rationalization. Withdrawal and repression.

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P.T.O.

(2)

- (b) Explain in short about Major and Minor types of Adjustment Mechanism. 08
3. (a) What do you mean by thinking? Discuss the types of thinking. 08
- (b) Define attention. Discuss the features and types of attention. 07
4. (a) Define personality. Explain any theories of personality. 10
- (b) Discuss the types of personality in detail. 05
5. Write short notes on any **two** : $5 \times 2 = 10$
- (a) Biological Motives
- (b) Methods of Psychology
- (c) Explain trial and error learning
- (d) Psychological tests

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(3)

6. State true or false of the following statements. $1 \times 5 = 05$
- (a) Learning is a process of modification of behaviour. F
- (b) "Making excuses" is a feature of rationalization. T
- (c) IQ below 70 is called as mental retardation. T
- (d) Intelligence is the ability to give response that are true. T
- (e) Sigmund Freud formulated the psychoanalytic theory. T

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B.Sc. (Nursing) (First Year)

Examination, 2020

MICROBIOLOGY

Paper : V

Time Allowed: Three Hours / Maximum Marks : 75

1. Describe the principles of Microbiology and their importance in nursing. 15
2. (a) Explain the structure and classification of bacterial growth. 8
(b) Write the staining technique of acid fast staining. 7
3. Describe the methods of Infection control and write the role of nurses in hospital infection control. 15

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(2)

4. Define Immunity its type and characteristics. Explain about hypersensitivity. 15

5. Write short notes on any **three** of the following: 3×5=15

- (a) Cold Chain
- (b) Immunization schedule
- (c) Antigen-Antibody reaction
- (d) Hospital Acquired Infection
- (e) Methods of Sterilization