

4

20



Dr. J.J. Magdum Institute of Nursing Education, Jaysingpur
1st year P.B. B.Sc. Nursing
Mid-Term Exam – 2016-17

Sub – Biochemistry & Biophysics

Date: - 18/01/2017

Time:- 10:00 to 12:00 Pm.

Marks-50

Section –A

(BIOCHEMISTRY)

(25 marks)

Q.1 Short Answer question (any Two)

(2X5=10)

- 1) Write a note on cell inclusion.
- 2) Write sources, properties & functions of water.
- 3) Ultra structure of mitochondria with function.

Q.2. Long answer question (Any one)

(1x15=15)

- 1) Give definition and importance of Biochemistry in nursing.
- 2) Discuss briefly the Physiological importance of electrolytes & salts

Section –B

(BIOPHYSICS)

(25 marks)

Q.3 Short answer question (any two)

(2X5=10)

- 1) Discuss the concept of units & fundamental & derived units.
- 2) List out the basic units of length, weight mass & time.
- 3) Discuss the types of motion.

Q.4. Long answer question (Any one)

(1x15=15)

- 1) Discuss the meaning & importants of biophysics
- 2) Explain the application of principles of the motion in nursing.

5



Dr. J.J. Magdum Institute of Nursing Education, Jaysingpur
1st year P.B. BSc. Nursing
Preliminary Exam – 2016-17

Sub – Biochemistry and Biophysics

Date: - 30 /03/2017

Time: - 10:00 to 1:00 pm.

Marks-75

Instructions: - 1) Use blue/black ball point pen only.

2) Do not write anything on the blank portion of the Question paper. If written Anything, such type of act will be considered as an attempt to resort to Unfair means.

3) All Questions are Compulsory.

4) The number to the right indicates full marks.

5) Draw diagrams wherever necessary.

6) Use a common answer book for all sections.

SECTION-A (Biochemistry)

(45 Marks)

Q.1 Short Answer question (any Five out of Six)

(5X5=25)

- 1) Define and classify enzymes.
- 2) Ultra structure of mitochondria with function.
- 3) Write source properties & function of water.
- 4) Describe the pathway of glycolysis and add a note on its energetic.
- 5) List three precautions which are importantly required to handle specimens for Enzyme estimation.
- 6) Write a note on cell inclusion.

Q.2 Long answer question (any two out of three)

(2X5=10)

- 1) Describe various mechanisms for regulation of Blood sugar level.
- 2) Describe various facts affecting enzyme action.
- 3) Regulation of water balance.

Q.3. Short answer question (Any Two out of three)

(2X5=10)

- 1) Function of calcium & phosphorous.
- 2) Explain the importance of biochemistry in nursing.
- 3) Explain water distribution in ICF & ECF

SECTION-B (Biophysics)

(30 Marks)

Q.No.1) Short answer question (any Four out of Five)

(4x5=20)

- 1) Describe the different systems of units.
- 2) Discuss the types of motion.
- 3) Give examples of anatomical lever & pulley in the human body.
- 4) Explain the principles of simple machine, different types of machine with their applications.
- 5) Discuss the meaning & importance of biophysics in nursing.

Q.No.2) Long Answer question (any one out of two)

(10x1=10)

- 1) Explain the application of principles of the motion in Nursing. (10)
- 2) Discuss the principles of force, energy & work in nursing. (10)

6

Dr. J.J. Magdum Institute of Nursing Education, Jaysingpur
1st year P.B. BSc. Nursing
Mid-Term Exam – 2018



Sub – BIOCHEMISTRY & BIOPHYSICS

Date: - 10/01/2018

Time: - 2:30 to 4:30 pm.

Marks-50

Section –A (25 marks)

Q.1 Short Answer question (any Two)

(2X5=10)

- 1) Write a short note on nucleus.
- 2) Write sources, properties & functions of water.
- 3) Describe endoplasmic reticulum types & function.

Q.2. Long answer question (Any one)

(1x15=15)

- 1) Give definition and importance of Biochemistry in nursing.
- 2) Describe the structure of plasma – membrane the fluid mosaic Model & functions.

Section –B (25 marks)

Q.1 Short answer question (any two)

(2X5=10)

- 1) Discuss the concept of units & fundamental & derived units.
- 2) Discuss the types of motion.
- 3) Give applications of motion in nursing.

Q.2. Long answer question (Any one)

(1x15=15)

- 1) Discuss the meaning & importance of biophysics
- 2) Describe speed, velocity and acceleration.

Library copy

Dr. J.J. Magdum Institute of Nursing Education, Jaysingpur
1st year P.B. BSc. Nursing
Preliminary Exam – 2017-18

7

Sub – Biochemistry and Biophysics

Date: - 07 /04/2018

Time: - 10:00 to 1:00 pm.

Marks-75

- Instructions:** -
- 1) Use blue/black ball point pen only.
 - 2) Do not write anything on the blank portion of the Question paper. If written Anything, such type of act will be considered as an attempt to resort to Unfair means.
 - 3) All Questions are Compulsory.
 - 4) The number to the right indicates full marks.
 - 5) Draw diagrams wherever necessary.
 - 6) Use a common answer book for all sections.



SECTION-A (Biochemistry) (45 Marks)

- Q.1 Short Answer question (any Five out of Six) (5X5=25)**
- 1) Explain structure and function of mitochondria.
 - 2) Give sources of sodium, function & daily allowance.
 - 3) Classify carbohydrate with suitable example.
 - 4) Structure and function of cell membrane.
 - 5) Explain mechanism of action & lock & key theory of enzyme.
 - 6) Give properties of water.
- Q.2 Long answer question (any two out of three) (2X5=10)**
- 1) Explain types of water.
 - 2) Describe various steps involved in krebs cycle add a note on its energetics.
 - 3) Describe various factors affecting on enzyme activity.
- Q.3. Short answer question (Any Two out of three) (2X5=10)**
- 1) Glucogenesis.
 - 2) Function of calcium & phosphorous.
 - 3) Gluconeogenesis

SECTION-B (Biophysics) (30 Marks)

- Q.No.1) Short answer question (any Four out of Five) (4x5=20)**
- 1) Describe meaning & importance of Biophysics in nursing.
 - 2) Discuss the types of motion.
 - 3) Explain applications of principles of motion in nursing.
 - 4) What is the principle of lactometer in measuring specific gravity?
 - 5) Explain mass & weight with suitable example.
- Q.No.2) Long Answer question (any one out of two) (1x10=10)**
- 1) Describe the effects of gravitational force on human body. (10)
 - 2) Discuss application of principles of the motion in Nursing. (10)



SECTION -A

(25 Marks)

Q.1 Short answer question (Any Two)

(10 Marks)

1. Importance of Biochemistry in nursing
2. Write Source and function of water.
3. Write structure and function of mitochondria

Q.2 Long answer question (Any one)

(15 Marks)

1. Write three important chemical and physical properties of water.
2. Discuss brief the physiological importance of electrolyte and salt.

SECTION -B

(25 Marks)

Q.3 Short answer question (Any Two)

(10 Marks)

1. Meaning and importance of biophysics in nursing
2. Describe the different system of the unit
3. Discuss the type of motion

Q.4 Long answer question (Any One)

(15 Marks)

1. Explain the effect of gravitational force on human body and its application
2. Explain the specific and center of gravity