

F.Y.P.B.B.Sc Nursing, Summer-2018  
SUBJECT: BIOCHEMISTRY AND BIOPHYSICS

Day: Monday

Time: —

Date: 23-04-2018

S-2018-3893

Max. Marks: 15

**N.B:**

- 1) All questions are **COMPULSORY**.
- 2) Put a  tick mark in the appropriate box.
- 3) Use **BLUE/ BLCK** pen only.
- 4) Section one should be completed in **15** minutes.
- 5) Each question carries **ONE** mark.
- 6) Students will be allotted marks if he/ she overwrite strikes or puts white ink on the cross once marked.

Seat No.: \_\_\_\_\_

Total Marks Obtained \_\_\_\_\_

Jr. Signature \_\_\_\_\_

Examiners Signature \_\_\_\_\_

**SECTION-I  
(BIOCHEMISTRY)**

**Q.1 MCQ:**

**Q.1** Ribosomes present on which of the following cell organelle?

- |                          |                          |
|--------------------------|--------------------------|
| a) Endoplasmic reticulum | <input type="checkbox"/> |
| b) Golgi apparatus       | <input type="checkbox"/> |
| c) Mitochondria          | <input type="checkbox"/> |
| d) Peroxisomes           | <input type="checkbox"/> |

**Q.2** Over hydration means

- |                          |                          |
|--------------------------|--------------------------|
| a) Water retention       | <input type="checkbox"/> |
| b) Water loss            | <input type="checkbox"/> |
| c) Electrolyte retention | <input type="checkbox"/> |
| d) None of these         | <input type="checkbox"/> |

**Q.3** Which of the following is called as animal starch?

- |              |                          |
|--------------|--------------------------|
| a) Galactose | <input type="checkbox"/> |
| b) Glucose   | <input type="checkbox"/> |
| c) Glycogen  | <input type="checkbox"/> |
| d) Cellulose | <input type="checkbox"/> |

**Q.4** Sugar found in milk is

- |             |                          |
|-------------|--------------------------|
| a) Mannose  | <input type="checkbox"/> |
| b) Maltose  | <input type="checkbox"/> |
| c) Fructose | <input type="checkbox"/> |
| d) Lactose  | <input type="checkbox"/> |

**P.T.O.**

- Q.5** Lipid is stored in adipose tissue in the form of
- a) Cholesterol
  - b) Phospholipid
  - c) Fatty acids
  - d) Triglycerides
- Q.6** One of the following enzyme useful in diagnosis of prostate cancer is
- a) Transaminase
  - b) Lipase
  - c) Acid phosphatase
  - d) Alkaline Phosphatase
- Q.7** Uric acid level increases in \_\_\_\_\_.
- a) Jaundice
  - b) Diabetes mellitus
  - c) Diabetes insipidus
  - d) Gout
- Q.8** Gama Glutamyl transpeptidase (GGT) activity in serum is elevated in
- a) Pancreatitis
  - b) Muscular dystrophy
  - c) Myocardial infarction
  - d) Alcoholism

**(BIOPHYSICS)**

- Q.9** That which possesses mass and occupies space is called \_\_\_\_\_.
- a) Matter
  - b) Energy
  - c) Heat
  - d) Semiconductor
- Q.10** The bones movement in the human body is a \_\_\_\_\_.
- a) Linear
  - b) Oscillatory
  - c) Translator
  - d) Rotatory

**Q.11** In which region of retina the vision is most acute?

- a) Vitreous humor
- b) Conjunctive
- c) Ciliary body
- d) Fovea centralize

**Q.12** As tissue temperature decreases the metabolism \_\_\_\_\_.

- a) Increases
- b) Decreases
- c) Remains same
- d) First increases and then decreases

**Q.13** A semiconductor device which convert AC into DC is called \_\_\_\_\_.

- a) Rectifier
- b) Oscillator
- c) Amplifier
- d) Transformer

**Q.14** One horse power is equal to \_\_\_\_\_.

- a) 746 watt
- b) 9.8 watt
- c) 760 watt
- d) 1000 watt

**Q.15** Laws of electromagnetic induction were given by \_\_\_\_\_.

- a) Fleming
- b) Faraday
- c) Lenz
- d) Ohm

F.Y. P.B. B.Sc Nursing : Summer - 2018

SUBJECT: BIOCHEMISTRY AND BIOPHYSICS

Day: Monday

Time: 10.00 A.M. To 1.00 P.M.

Date: 23.04.2018

Max. Marks: 60

S.2018-3893

**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 book.

**SECTION-II  
(BIOCHEMISTRY)**

**Q.2** Write short notes on (**ANY THREE**) : (15)

- a) Fatty liver
- b) Glucose Tolerance Test
- c) Plasma proteins and their functions
- d) Describe the structure and function of mitochondria

**Q.3** Long Question on (**ANY ONE**): (15)

- a) Define and classify enzymes. Describe factors affecting enzyme activity.
- b) Describe urea cycle and write a note on Uremia.

**SECTION-III  
(BIOPHYSICS)**

**Q.4** Write short notes on (**ANY THREE**) : (15)

- a) Explain the use of radioisotopes in medicine
- b) Write a short notes on ECG
- c) State the laws of reflection
- d) What is scalar and vector, state its examples

**Q.5** Long Question on (**ANY ONE**): (15)

- a) Explain with neat diagram Vocalization and hearing of sound. Write characteristics of musical sound.
- b) Describe construction and working of sphygmomanometer? Discuss the application of pressure in nursing.

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