SMMPP'S NASHIK F-2900

[Total No. of Pages : 2

61303

First Post Basic B. Sc (Nursing) Examination, Summer - 2024
Phase - II
Biochemistry And BioPhysics

Total Duration : 3 Hours

Total Marks : 75

Instructions : *1) Use **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) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the question is out of syllabus. As it is only for the placement sake, the distribution has been done.

7) Use a common answer book for all sections.

SECTION - A

(Biochemistry)

1) Short Answer Questions (any five out of six) : **[5 × 5 = 25]**

a) Glucose tolerance test

b) Explain the causes of hypokalemia

c) Describe the structure and function of mitochondria

d) Describe the structure and function of RNA

e) Describe glycogenolysis

f) Explain the digestion of protein

2) **Long Answer Questions (Solve any two out of three)** **[2 × 5 = 10]**

a) Write and account of the importance of serum enzymes in the digestion of disease and discuss the serum enzyme tested in M.I

b) Define and classify the carbohydrate with suitable example and discuss the function of carbohydrate

c) explain the detain urea cycle with as significance aneergetics

3) **Short Answer Questions (Solve any 2 Out of 3)** **[2 × 5 = 10]**

a) Discuss Diabetic Ketoacidosis.

b) Discuss diagnostic significance of enzymes.

c) Describe sources, functions and deficiencies manifestation of folic acid and Vitamin B12.

SECTION - B

(Biophysics)

4) **Short Answer Questions (Solve any 4 Out of 5)** **[4 × 5 = 20]**

a) Write the uses of radioactive isotopes in patient care

b) Define gravity and specific gravity what is the normal specific gravity of urine and what causes the variation in specific gravity of urine

c) Explain Biological effect of light and its therapeutic importance.

d) What is Lever . Write its classifications. Give example for each classification.

e) List the principles of good Body mechanics

5) **Long Answer Questions(Solve any 1 Out of 2)** **[1 × 10 = 10]**

a) Name the methods of transfer of heat in human body. Give examples in relation to patient care. Explain about regulation of body temperature.

OR

b) As a Nurse what steps you will take to prevent noise pollution in the hospital. Explain.