



First P.B.B.Sc. Nursing Examination, Summer - 2021

BIOCHEMISTRY AND BIOPHYSICS

Total Duration : 3 Hours

Total 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) 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" (45 Marks)

(Biochemistry)

1. Short answer questions (**any five** out of six) : [5 × 5 = 25]
 - a) Describe Step of Urea Cycle.
 - b) Define glycolysis with its significance.
 - c) Write Classification of Lipids with suitable example.
 - d) Balance diet.
 - e) Describe the factors affecting enzyme action.
 - f) Give the classification of lipoproteins.

2. Long answer questions (**any two** out of three) : [2 × 5 = 10]
 - a) Describe the international classification of Enzymes with example.
 - b) Give the Classification of Carbohydrate with suitable example.
 - c) Describe the various factors regulating blood glucose level.

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3. Short answer questions (**any two** out of three) : [2 × 5 = 10]
- Describe the functions , sources and deficiency manifestations of Iron.
 - Describe the functions ,and deficiency manifestations of Vitamin C
 - TCA cycle and its importance.

SECTION "B" (30 Marks)

(Biophysics)

4. Short answer questions (**any four** out of five): [4 × 5 = 20]
- Write a note on Diathermy.
 - Cathode Ray Oscilloscope
 - Infra Red light and its uses
 - What is surface tension? Give its applications.
 - What is ultrasonic sound? give its uses.
5. Long answer questions (**any one** out of two): [1 × 10 = 10]
- What is sub-atmospheric pressure? What are its clinical applications?
 - State Newton's first law of motion. What is curvilinear motion? Write in brief about its applications.

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First P.B. B.Sc. Nursing Examination, (Phase - III) Winter - 2021
MICROBIOLOGY

Total Duration : 3 Hours

Total Marks : 75

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 - 3) **All questions are compulsory.**
 - 4) The number to the **right** indicates **full marks**.
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 - 7) Use a common answer book for all sections.

SECTION "A" (40 Marks)

1. Short answer questions (**any five** out of six) : [5 × 5 = 25]
 - a) Gram Staining
 - b) Agglutination Reaction
 - c) Factors influencing antibody production
 - d) Anaphylaxis
 - e) Immunoglobulin G
 - f) ELISA test

2. Long answer questions (**any one** out of two) : [1 × 15 = 15]
 - a) Enumerate the organism causing diarrhea. Describe the morphological, cultural and antigenic characteristics of E. Coil
 - b)
 - i) Describe the pathogenesis and Laboratory diagnosis of Rabies. [5]
 - ii) Discuss the clinical stages of Rabies in humans and in dog. [5]
 - iii) Explain the prophylaxis and treatment of Rabies in human. [5]

SECTION "B" (35 Marks)

3. Short answer questions (**any four** out of five) : [4 × 5 = 20]
- a) Bacterial Spore
 - b) Cultural characteristics of staphylococci
 - c) Plasmids
 - d) Pyrexia of Unknown Origin (PUO)
 - e) Life cycle of malaria Parasite
4. Long answer questions (**any one** out of two) : [1 × 15 = 15]
- a) i) Classification of spirochetes. [3]
 - ii) Discuss morphology and cultivation of Treponema Pallidum. [6]
 - iii) Describe antigenic structure and pathogenicity of Treponema Pallidum. [6]
 - b) i) Explain Classification and morphology of human herpesvirus. [5]
 - ii) Discuss pathogenicity and laboratory diagnosis of varicella. [5]
 - iii) Describe prophylaxis and treatment of varicella. [5]



First P.B.B.SC. (Nursing) Examination, (Phase - III) Winter - 2021

NUTRITION AND DIETETICS

Total Duration : 2 Hours

Total Marks : 35

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 - 7) Use a common answer book for all sections.

SECTION "A" (25 Marks)

1. Short answer question (any five out of six) : [5 × 5 = 25]
- a) Explain Food hygiene.
 - b) Principals of supplementary feeding
 - c) Explain Recommended Dietary Allowances OF Lactating mother
 - d) Discuss community nutrition program
 - e) Dietary management in peptic ulcer.
 - f) Methods of assessing nutritional status of preschooler.

SECTION "B" (10 Marks)

2. Long answer question (**any one out of two**) : **[1 × 10 = 10]**
- Define therapeutic diet and Discuss dietary management of 11 years child having diabetic mellitus
 - Explain Nutritional needs of adolescent girl and discuss factors to be considered while planning diet for adolescent girls.



First P.B.B.Sc. Nursing Examination, (Phase - III) Winter - 2021

NURSING FOUNDATION

Total Duration : Section A+B = 2 Hours

Total Marks : 35

Section - A & Section - B

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 - 3) **All questions are compulsory.**
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 - 7) Use a common answer book for all sections.

SECTION - "A" (25 Marks)

1. Short answer question (**any five** out of **six**) : **[5 × 5 = 25]**
- a) Expanded role of the Nurse.
 - b) Career planning.
 - c) Trends influencing nursing practice.
 - d) Components of NANDA nursing diagnosis.
 - e) Total quality management.
 - f) Holistic nursing.

SECTION - "B" (10 Marks)

2. Long answer question (**any one** out of **two**) : **[1 × 10 = 10]**
- a) Explain Dorothea Orem's theory & its implication to Nursing.
 - b) Discuss Stress & its adaptation.



First P.B.B.Sc. (Nursing) Examination, (Phase - III) Winter - 2021
BIOCHEMISTRY AND BIOPHYSICS

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 - 7) Use a common answer book for all sections.

SECTION "A" (45 Marks)

Biochemistry

1. Short answer question (any five out of six) : [5 × 5 = 25]
- a) Write a note on malabsorption syndrome.
 - b) Describe the classification of lipids with example.
 - c) Give the international classification of enzymes with examples.
 - d) Give an account on classification of carbohydrates.
 - e) Describe various lipoproteins and give their significance.
 - f) What are plasma proteins? Give the functions of various plasma proteins.

2. Long answer question (any two out of three) : [2 × 5 = 10]

- a) Describe the fate of Glucose in the body. (1)
- b) What are Enzymes? Describe various factors affecting enzyme action. (2)
- c) Classify proteins based on their structure. Add a note of urea cycle. (2)

3. Short answer question (any two out of three) : [2 × 5 = 10]

- a) Describe ketone body formation and their uses. (2)
- b) Give the structure and functions of RNA. (2)
- c) Give the causes and clinical symptoms of dehydration. (2)

SECTION "B" (30 Marks)

Biophysics

4. Short answer questions (any four out of five) : [4 × 5 = 20]

- a) What is traction? Explain the application on human body. (2)
- b) What is binocular vision? Mention the advantages. (2)
- c) Explain short wave diathermy. (2)
- d) Use of radio-isotopes in cancer therapy. Explain. (2)
- e) Describe clinical thermometer. (2)

5. Long answer question (any one out of two) : [1 × 10 = 10]

- a) Explain the use of ultrasound in medical diagnosis. (5)
- b) State the laws of reflection. Describe applications of light. (5)



First P.B. B.Sc. Nursing Examination, (Phase - III) Winter - 2021
MATERNAL NURSING

Total Duration : 3 Hours

Total Marks : 75

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 - 7) Use a common answer book for all sections.

SECTION "A" (40 Marks)

1. Short answer question (**any five** out of six) : [5 × 5 = 25]
 - a) Aims and Objectives of antenatal care
 - b) Puerperial pyrexia
 - c) Cord prolapse and its management
 - d) Genital prolapse
 - e) Vomiting in pregnancy
 - f) Intrauterine devices

2. Long answer question (**any one** out of two) : [1 × 15 = 15]
 - a) Define normal labour. Describe the stages of labour. Write management of first stage of labour.
 - b) Define placenta previa. What are the different degree of placenta Previa. Write management of second degree placenta previa.

SECTION "B" (35 Marks)

3. Short answer question (**any four** out of five) : **[4 × 5 = 20]**
- Immediate care of newborn
 - Management of threatened abortion
 - Episiotomy
 - Oxytocic
 - Physiological changes during pregnancy
4. Long answer question (**any one** out of two) : **[1 × 15 = 15]**
- Define pregnancy induced hypertension. Enlist sign and symptoms of PIH. Discuss management of pre-eclampsia
 - Define Multiple pregnancy. Describe types of multiple pregnancy. Write the antenatal management in multiple pregnancy.

