



61303

First P.B.B.Sc. NURSING Examination, Summer 2017
BIOCHEMISTRY AND BIOPHYSICS

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

- 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 answerbook for **all** Sections.

SECTION – A (45 Marks)
(Biochemistry)

1. Short answer questions (any five out of six) : (5×5=25)
 - a) Define enzymes. Enumerate factors affecting enzyme activity.
 - b) Give outline and importance of Tricarboxylic acid cycle (Kreb's cycle).
 - c) Phospholipids of biological importance.
 - d) What are the causes and consequences of Dehydration ?
 - e) Classify carbohydrates with suitable examples.
 - f) Structure and function of t-RNA.
2. Long answer question (any two out of three) : (2×5=10)
 - a) Electron transport chain and its inhibitors.
 - b) What is ketosis? Write down the causes of ketosis and about detection of ketosis.
 - c) Explain in detail urea cycle with its significance and energetics.

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3. Short answer question (**any two** out of three) :

(2×5=10)

- a) Functional classification of proteins.
- b) Atherosclerosis.
- c) Gluconeogenesis.

SECTION – B (30 marks)
(Biophysics)

4. Short answer questions (**any four** out of five) :

(4×5=20)

- a) What are the modes of heat transfer ? Explain with one example.
- b) What is osmotic pressure ? Enumerate its uses in human body.
- c) Explain principle of wax bath.
- d) Why synthetic cloth dresses are not allowed in operation theaters ?
- e) Explain the defibrillator.

5. Long answer question (**any one** out of two) :

(1×10=10)

- a) Discuss lever systems of body.
 - b) Explain the biological effects of light. Describe uses of light in therapy.
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First P.B.B.Sc. Nursing Examination, Summer 2017
CHILD HEALTH NURSING

Total Duration : Section A + B = 3 Hours

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SECTION – A (40 Marks)

1. Short answer question (any five out of six) : (5x5=25)
 - a) Differences between adult and child.
 - b) Nursing care of child with Scabies.
 - c) Speech defects in children.
 - d) Characteristics of Normal Newborn.
 - e) Classify Congenital Heart Diseases.
 - f) Advantages of Breast feeding.
2. Long answer question (any one out of two) : (1x15=15)
 - a) i) Define Hydrocephalus. 2
 - ii) Enlist clinical manifestations of Hydrocephalus. 3
 - iii) List down surgical management for Hydrocephalus. 3
 - iv) Discuss post-operative Nursing management of child with Hydrocephalus. 7

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- b) i) Define Growth and Development. 2
- ii) Enlist principles of Growth and Development. 6
- iii) Enumerate factors affecting Growth and Development. 7

SECTION – B (35 Marks)

3. Short answer question (**any four** out of five) : (4x5=20)

- a) Nursing management of child with Tuberculosis.
- b) Nurses responsibility in Lumbar puncture.
- c) Nurses role in selection of play materials for children.
- d) Child labour.
- e) Nursing care of child with neonatal sepsis.

4. Long answer question (**any one** out of two) : (1x15=15)

- a) Ms. Sita, 3 Year old child is admitted in the hospital with weight gain, decreased urine output, fatigue and is diagnosed with Nephrotic Syndrome
 - i) Define Nephrotic Syndrome. 2
 - ii) Discuss Pathophysiology of Nephrotic Syndrome. 5
 - iii) List down nursing diagnosis for Ms. Sita and write nursing care plan for two priority nursing diagnosis. 8
- b) Master Rohit 6 months old was brought to hospital due to weakness, shortness of breath, poor sucking and was diagnosed with Anemia.
 - i) Define Anemia. 2
 - ii) Classify Anemia. 3
 - iii) Enlist clinical manifestations of Anemia. 5
 - iv) Discuss nursing management for Master Rohit. 5



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First P.B.B.Sc. Nursing Examination, Winter 2017
MEDICAL AND SURGICAL NURSING

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A and SECTION – B

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 - 3) **All questions are compulsory.**
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 - 7) Use a common answerbook for **all** Sections.

SECTION – A (40 Marks)

1. Short answer question (any five out of six) : (5×5=25)
 - ~~a)~~ Explain the different stages of shock.
 - ~~b)~~ Thalassemia.
 - c) Medical and surgical management of glaucoma.
 - d) Meniere's disease.
 - ~~e)~~ Classification of burn depth.
 - ~~f)~~ Thyrotoxicosis.

2. Long answer question (any one out of two) : (1×15=15)
 - a) Discuss the ethical and legal issues related to renal transplant and plan pre and post operative nursing intervention for recipient.
 - b) Discuss pulmonary tuberculosis under following heading:
Pathophysiology.
DOTS therapy.
Client's education on care at home.



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SECTION – B (35 Marks)

3. Short answer question (any four out of five) : (4×5=20)
- a) Sodium imbalance in blood.
 - b) Menstrual disorders.
 - c) Rehabilitation of patient after hip replacement surgery.
 - d) Risk factors and level of prevention for common cancer.
 - e) Nursing intervention during acute stage of pancreatitis.
4. Long answer question (any one out of two) : (1×15=15)
- a) Explain the modifiable and nonmodifiable risk factors for Coronary Artery Disease (CAD), briefly discuss about PTCA and prepare rehabilitation plan for patient with CAD.
 - b) Discuss different stages of levels of consciousness, explain the initial assessment of unconscious patient and design nursing care plan for patient who is on mechanical ventilator.





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CHILD HEALTH NURSING

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SECTION – A (40 Marks)

1. Short answer question (any five out of six) :

(5×5=25)

- a) Causes of enuresis in children.
- b) Nosocomial infection in neonatal intensive care unit.
- c) Importance of play therapy for children.
- d) Enumerate clinical and diagnostic features of Tetralogy of Fallot.
- e) Child abuse.
- f) Causes of Iron Deficiency Anemia.

2. Long answer question (any one out of two) :

(1×15=15)

- a) i) Define mega colon. 1
- ii) Enumerate the pathophysiology and clinical features in a child with mega colon. 6
- iii) Describe the pre and post operative nursing management of this child. 8

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|--|---|
| b) i) Define protein energy malnutrition. | 1 |
| ii) Write the etiology and clinical manifestation of protein energy malnutrition. | 6 |
| iii) Explain the nursing care of a patient with 4 th degree malnutrition. | 8 |

SECTION – B (35 Marks)

3. Short answer question (**any four** out of five) : (4x5=20)

- a) List the health concerns of an adolescent.
- b) Explain V.P. shunt and health teaching given to the parents.
- c) Nursing management for Neonatal Jaundice.
- d) Role of paediatric nurse.
- e) Vitamin A deficiency and its prevention.

4. Long answer question (**any one** out of two) : (1x15=15)

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|---|---|
| a) i) Enumerate the causes of Pneumonia in children. | 4 |
| ii) Discuss in brief the nursing management of a child admitted with Pneumonia. | 7 |
| iii) List the complications of Pneumonia. | 4 |
| b) i) Define growth and development. | 2 |
| ii) Discuss the gross and fine motor development of a Toddler. | 7 |
| iii) Explain the nurses role in meeting the needs of a Toddler. | 6 |



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 - 7) **Use a common answerbook for all Sections.**

SECTION – A (45 Marks)

(Biochemistry)

1. Short answer question (**any five** out of six) : (5×5=25)
 - a) Plasma proteins and their functions.
 - b) Electrolyte distribution, its functions and imbalance in body.
 - c) Classify carbohydrates with suitable examples.
 - d) Fatty Liver – its causes and prevention.
 - e) Structure and functions of DNA.
 - f) Structure and functions of cell membrane.
2. Long answer question (**any two** out of three) : (2×5=10)
 - a) Define Enzymes. Describe various factors affecting Enzyme activity.
 - b) Describe Ketone body formation and their utilization in the body. Add a note on ketosis.
 - c) Describe various steps of Krebs cycle. Add a note on its energetics.

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3. Short answer question (any two out of three) :

- a) Balanced Diet.
- b) Uric acid formation.
- c) Glycogenesis.

(2×5=10)

SECTION – B (30 Marks)
(Biophysics)

4. Short answer question (any four out of five) :

- 1 a) Explain Newton's third law of motion.
- 2 b) Write in brief on uses of light in therapy.
- c) Enumerate the effect of linear acceleration on human body.
- d) Ventilator.
- 3 e) Uses of heat sterilization.

(4×5=20)

5. Long answer question (any one out of two) :

- 8 a) Describe in detail various Lever mechanisms in body.
- b) Define electromagnetism. Describe its application in medical science.

(1×10=10)