



61303



First P.B.B.Sc. Nursing Examination, Summer 2018
BIOCHEMISTRY AND BIOPHYSICS

Total Duration : Section A + B = 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 answerbook for **all** Sections.

SECTION – A (45 Marks)
(Biochemistry)

1. Short answer questions (**any five** out of six) : (5×5=25)
 - a) Write any five important functions of lipid.
 - b) Write a note on structure of DNA.
 - c) What is fatty liver ? Write the causes of fatty liver.
 - d) What is dehydration ? Write the causes of dehydration.
 - e) Write a note on Balanced Diet.
 - f) Write about any four factors affecting enzyme action.

2. Long answer question (**any two** out of three) : (2×5=10)
 - a) Draw the structure of cell. Mention five cell organelles with their function.
 - b) Explain Gout.
 - c) What are ketone bodies? What are the causes of metabolic ketoacidosis?

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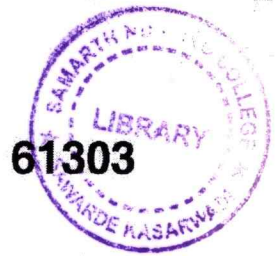
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3. Short answer question (**any two** out of three) : (2×5=10)
- a) Define conjugated proteins. Name any three conjugated proteins with one function of each.
 - b) What are essential amino acids? Name essential amino acids.
 - c) Mention names and functions of any four Homopolysaccharides.

SECTION – B (30 Marks)
(Biophysics)

4. Short answer questions (**any four** out of five) : (4×5=20)
- a) Write in brief about radiation hazards.
 - b) Write a note on ultrasound.
 - c) Write a note on diffusion.
 - d) Write in brief on ~~viscosity~~ *velocity*.
 - e) Applications of surface tension.
5. Long answer question (**any one** out of two) : (1×10=10)
- a) Write in detail about mechanisms of heat transfer and applications of heat transfer in body.
 - b) What does Pascal's Law state ? Write in detail about applications of Pascal's law in body and in nursing.
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**First P.B.B.Sc. Nursing Examination, Winter 2018
BIOCHEMISTRY AND BIOPHYSICS**

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Total Marks : 75

SECTION – A & SECTION – B

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**SECTION – A (45 Marks)
(Biochemistry)**

1. Short answer question (**any five** out of six) : (5x5=25)
 - a) Digestion of Proteins.
 - b) Classification of Carbohydrates with suitable examples.
 - c) Types and functions of Lipoproteins.
 - d) Structure and functions of Mitochondria.
 - e) Balanced diet.
 - f) Glucose Tolerance test.
2. Long answer question (**any two** out of three) : (2x5=10)
 - a) Describe various steps of TCA cycle.
 - b) Describe the role of enzymes in clinical diagnosis.
 - c) Describe the steps of Krebs cycle.
3. Short answer question (**any two** out of three) : (2x5=10)
 - a) Water and Electrolyte balance.
 - b) Essential amino acids.
 - c) Fatty liver.

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SECTION – B (30 Marks)
(Biophysics)

4. Short answer question (**any four** out of five) : **(4×5=20)**
- a) List the basic units of mass and weight in SI system. Why does an object weigh more at sea level than that on a high mountain ?
 - b) Explain the types of motion. Give its applications in nursing.
 - c) What is center of gravity ? Explain the importance of principles of gravity in health care practices.
 - d) Why does a patient lying in bed for a long time develop sores? State the law that explains it.
 - e) Barium sulfate is used to outline organs.Explain.
5. Long answer question (**any one** out of two) : **(1×10=10)**
- a) What are types of Electricity? Human body is a good conductor of electricity. Discuss.
 - b) Explain the significance of Pascal's law of hydrostatic pressure in day to day life as well as in health care.



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First P.B.B.Sc. Nursing Examination, Winter 2018
CHILD HEALTH NURSING

Total Duration : Section A + B = 3 Hours

Total Marks : 75

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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) Factors influencing growth and development.
 - b) List principals of G and D.
 - c) Role of parents in maintaining G and D.
 - d) Prevention of accidents in children.
 - e) Phototherapy.
 - f) Hypertrophic pyloric stenosis.
2. Long answer question (**any one** out of two) : (1×15=15)
 - a) Comment on psychological impact of hospitalization on child and family.
 - b) Define Hirschsprungs disease. Explain the pathophysiology. Write the nursing care for child with colostomy.

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SECTION – B (35 Marks)

3. Short answer question (any four out of five) : (4×5=20)
- a) Baby friendly hospital initiatives.
 - b) Weaning.
 - c) Classification of mental retardation.
 - d) Juvenile delinquency.
 - e) Explain ABO incompatibility.
4. Long answer question (any one out of two) : (1×15=15)
- a) Define protein energy malnutrition. Write the causes of protein energy malnutrition. Explain the nursing care of the child with 4th degree malnutrition.
 - b) Define Neonatal Jaundice. Explain the types of Neonatal Jaundice. Explain the management of Neonatal Jaundice.
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First P.B.B.Sc. (Nursing) Examination, Summer 2018
CHILD HEALTH NURSING

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SECTION – A and SECTION – B

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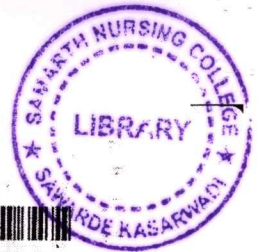
SECTION – A (40 Marks)

1. Short answer question (any five out of six) : (5×5=25)
 - a) Prevention of Mental retardation.
 - b) Nursing care of child with nephrotic syndrome.
 - c) Toilet training.
 - d) Internationally accepted rights of child.
 - e) Phimosis.
 - f) Enlist signs and symptoms of Pyloric stenosis.
2. Long answer question (any one out of two) : (1×15=15)
 - a) What is Meningomyelocele ? Write immediate pre operative specific observation and the post operative nursing care based on your observation as per your priority. List the complications that commonly occur in Meningomyelocele.
 - b) Three year old Mahesh is admitted in paediatric ward with diagnosis of iron deficiency anaemia. Define anaemia in children. Enumerate the causes of iron deficiency anaemia in children. Discuss the nursing management of child with iron deficiency anaemia.

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SECTION – B (35 Marks)



3. Short answer question (any four out of five) : (4×5=20)
- a) Birth injuries and its management.
 - b) Steps of Baby Friendly Hospital Initiative.
 - c) Management of status epilepticus in children.
 - d) Juvenile Delinquency.
 - e) Prevention of accidents in toddlers.
4. Long answer question (any one out of two) : (1×15=15)
- a) Sandeepa 1,1/2 yr old child is admitted to the paediatric ward with the diagnosis of acute bacterial meningitis.
Define bacterial meningitis. Enlist the clinical features of bacterial meningitis. Discuss the medical management of Sandeep and develop a short term nursing care plan for the child based on three priority needs/problem.
 - b) Rohan a 7 yr old child is admitted to the paediatric medical ward with the complaints of sore throat, fever, oliguria, haematuria and diagnosed as a case of acute glomerulonephritis. Define acute glomerulonephritis. Explain the pathophysiology and clinical features of AGN. Based on his condition, develop a short term nursing plan for any two priority problems/needs.
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