

First Basic B.Sc. Nursing Examination, Phase - II Summer - 2022

ANATOMY AND PHYSIOLOGY

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" (42 Marks)

(Anatomy)

1. Short answer question (any six out of seven): [6 × 5 = 30]
 - a) Classify synovial joints with examples.
 - b) Blood supply of Heart.
 - c) Nerve supply of Tongue.
 - d) Vermiform appendix.
 - e) Boundaries & contents of cubital fossa.
 - f) Bronchopulmonary segment.
 - g) Inguinal hernia.

2. Long answer question (any one out of two): [1 × 12 = 12]
 - a) Describe breast under following headings:
 - i) Gross anatomy [6]
 - ii) Blood supply [2]
 - iii) Lymphatic drainage [2]
 - iv) Applied anatomy [2]
 - b) Describe stomach under following headings:
 - i) Gross anatomy [6]
 - ii) Blood supply & lymphatic drainage [4]
 - iii) Applied aspect [2]

SECTION - "B" (33 Marks)**(Physiology)**

3. Short answer question (**any four** out of five): **[4 × 5 = 20]**
- Classify blood groups. What is the importance of blood group determination?
 - Write composition and functions of gastric juice.
 - Describe the formation and functions of cerebrospinal fluid.
 - Comment about movements of alimentary tract.
 - Describe neuromuscular transmission.
4. Long answer question : **[1 × 13 = 13]**
- Draw a neat well labelled diagram of cardiac cycle. Add a note on impulse conduction from SA node to Purkinje system. **[6]**
 - Name the forms in which oxygen is transported in blood. Describe the carriage of oxygen by haemoglobin. **[7]**

OR

- Long answer question : **[1 × 13 = 13]**
- What is the mechanism of urine formation. Enumerate the different functions of kidney. **[6]**
 - Enumerate different lung volumes with definition and draw well labelled diagram of lung volumes and capacities. What is the clinical importance of forced expiratory volume in one second (FEV1). **[7]**



First Basic B.Sc. Nursing Examination, (Phase - II) Summer - 2022

NUTRITION AND BIOCHEMISTRY

Total Duration : 3 Hours

Total Marks : 75

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

SECTION - "A"

(Nutrition)

1. Short Answer Questions (Solve any 5 Out of 6) : [5 × 5 = 25]
 - a) Discuss the factors affecting the nutrition.
 - b) FAO. *DISCUS Food Additives.*
 - c) Functions of protein.
 - d) Deficiency of Vitamin A.
 - e) Methods of food preservation.
 - f) Classification of food.

2. Long Answer Questions (Solve any 2 Out of 3) : [2 × 5 = 10]
 - a) Therapeutic diets.
 - b) Vitamin A deficiency programme.
 - c) Factors affecting BMR.

3. Short Answer Questions (Solve any 2 Out of 3) :

[2 × 5 = 10]

- a) Functions of Carbohydrate.
- b) Vitamin B complex.
- c) Dehydration and its sign and symptoms.

SECTION - "B"

(Biochemistry)

4. Short Answer Questions (Solve any 4 Out of 5) :

[4 × 5 = 20]

- a) Write any five function of cholesterol.
- b) Explain factors affecting calcium absorption.
- c) Antioxidant.
- d) Discuss in brief about digestion and absorption of lipids.
- e) Explain clinical importance of Blood urea.

5. Long Answer Questions (Solve any 1 Out of 2) :

[1 × 10 = 10]

- a) Define Blood buffer. Explain in detail about different types of Blood buffer and role of buffers in maintaining acid base balance.

OR

- b) Describe Glycolysis and Explain in detail about Reaction sequence, Location and Energy Generation.



First Basic B.Sc. Nursing Examination, Phase - II Summer - 2022
NURSING FOUNDATION

Total Duration : Section A + B = 3 Hours

Total Marks : 75

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SECTION "A" (40 Marks)

1. Short answer question (**any five** out of six) : [5 × 5 = 25]
 - a) Impact of illness on patient and family.
 - b) Care of rubber articles.
 - c) Levels of critical thinking.
 - d) Importance of documentation and reporting.
 - e) Health promotion model.
 - f) Nosocomial infection.

2. Long answer question (**any one** out of two) : [1 × 15 = 15]
 - a)
 - i) Write the various routes of drug administration. [5]
 - ii) Describe the factors influencing action of drugs. [5]
 - iii) Nurses role in storage and maintenance of drugs. [5]

- b) i) Give the meaning of pressure sores. Enlist its causes. [5]
ii) Describe the nursing measures to prevent pressure sores. [5]
iii) Write a brief note on strokes used in back care. [5]

SECTION "B" (35 Marks)

3. Short answer question (**any four** out of five) : [4 × 5 = 20]
- a) Barriers of communication.
 - b) Principles of bandaging.
 - c) Signs of clinical death.
 - d) Qualities of a professional nurse.
 - e) Methods of physical examination.
4. Long answer question (**any one** out of two) : [1 × 15 = 15]
- a) Discuss the factors affecting bowel elimination. [5]
What are the alterations in bowel elimination. [5]
Write the principles of giving evacuant enema. [5]
 - b) Patient is admitted with breathlessness.
 - i) Explain the nurses responsibility in oxygen administration. [5]
 - ii) Write the methods of oxygen inhalation. [5]
 - iii) Describe nursing management of patient with dyspnoea. [5]



PSYCHOLOGY

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 question (any five out of six) : [5 × 5 = 25]
 - a) Application of psychology in nursing.
 - b) Relationship of Body and Mind.
 - c) Methods of memorizing.
 - d) Stages of creative thinking.
 - e) Characteristics of Emotions.
 - f) Factors affecting personality development.

2. Long answer question (any one out of two) : [1 × 15 = 15]
 - a)
 - i) Define Motivation. (2)
 - ii) Discuss types of motivation. (5)
 - iii) Explain theories of motivation. (8)

- b) i) Define Intelligence. (2)
ii) Explain Nature of Intelligence. (5)
iii) Explain development of intelligence behaviour. (8)

SECTION - "B" (35 Marks)

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

- a) Personal maladjustments.
b) Causes of mental deficiency.
c) Characteristics of mentally healthy person.
d) Role of nurse in psychological assessment.
e) Importance of Communication.

4. Long answer question (any one out of two) : [1 × 15 = 15]

- a) i) Define learning. (2)
ii) Explain factors affecting learning. (5)
iii) Describe theories of learning. (8)
b) i) Define Perception. (2)
ii) Write Principles of Perception. (5)
iii) Explain factors affecting Perception. (8)



First Basic B.Sc. (Nursing) Examination, Phase - II
Summer - 2022
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 answerbook for all sections.

SECTION "A" (40 Marks)

1. Short answer question (**any five** out of six) : **[5 × 5 = 25]**
 - a) DPT vaccine
 - b) Cultivation of virus
 - c) Bacterial growth curve
 - d) Louis Pasteur
 - e) Nagler's reaction
 - f) Candida albicans

2. Long answer question (**any one** out of two) : **[1 × 15 = 15]**
 - a) Enumerate 03 protozoa
Describe morphology, life cycle of Entamoeba histolytica
Write pathogenicity and laboratory of E.histolytica

- b) Define Microbiology
Explain the Postulates of Robert Koch's
Describe Scope and Importance of Microbiology

SECTION "B" (35 Marks)

3. Short answer question (**any four** out of five) : **[4 × 5 = 20]**
- a) Bacterial Capsule.
 - b) Discuss disk diffusion technique of Antibiotic sensitivity testing.
 - c) Collection of Sputum sample for bacteria culture.
 - d) Name opportunistic fungal infections.
 - e) Define Zoonotic diseases. Write names of any two zoonotic disease.
4. Long answer question (**any one** out of two) : **[1 × 15 = 15]**
- a) Discuss the pathogenesis and laboratory diagnosis of pulmonary Tuberculosis
 - b) Define sterilization and disinfection
Enumerate methods of sterilization by heat
Describe principle, functioning, uses of hot air oven

