



62501

**First Basic B.Sc. Nursing Examination, Summer 2015
ANATOMY AND PHYSIOLOGY**

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 answer book for **all** Sections.

SECTION – A (42 Marks)

Anatomy

1. Short answer question (**any six** out of seven) : **(6×5=30)**
- a) Mitochondria.
 - b) Deltoid muscle.
 - c) Femoral Triangle.
 - d) Define Mediastinum. Mention its division and enumerate the contents of middle mediastinum.
 - e) Draw neat labelled diagram showing anterior relations of left kidney.
 - f) Describe nerve supply of tongue.
 - g) Describe blood supply of thyroid gland.

P.T.O.



2. Long answer question (any one out of two) : (1×12=12)
- a) Describe stomach under the following heads :
- a) Gross structure and relations (3)
 - b) Blood supply (3)
 - c) Lymphatic drainage (3)
 - d) Applied Anatomy (3)
- b) Describe synovial joint under following heads :
- a) Structure (3)
 - b) Classification (3)
 - c) Mechanism of lubrication (3)
 - d) Applied Anatomy (3)

SECTION – B (33 Marks)

Physiology

3. Short answer questions (any four out of five) : (4×5=20)
- a) Functions of Testosterone.
 - b) Enumerate the different blood group system. Importance of determination of blood groups.
 - c) Different mechanism for regulating body temperature.
 - d) Functions of thyroid hormones. Add a note on hypothyroidism.
 - e) Cerebrospinal fluid.
4. Long answer question : (1×13=13)
- a) Define and describe the process of blood coagulation. 6
 - b) Composition and functions of gastric juice. Write briefly about phases of gastric secretion. 7

OR

- Long answer question : (1×13=13)
- c) Describe the process of Oxygen transport from lungs to tissues. 6
 - d) Define and draw a diagram of cardiac cycle. Describe the ventricular events in cardiac cycle. 7

First Basic B.Sc. (Nursing) Examination, Summer 2015
NUTRITION AND BIOCHEMISTRY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

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 - 3) **All questions are compulsory.**
 - 4) The number to the **right** indicates **full marks**.
 - 5) **Draw diagrams wherever necessary.**
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SECTION – A (45 Marks)

Nutrition

1. Short answer questions (**any five** out of six) : **(5×5=25)**
- a) Write the factors interfering in absorption of calcium.
 - b) Methods of food preservation and storage.
 - c) Describe the effect of deficiency of water and its management.
 - d) Describe the effect of deficiency and excess of fat in diet.
 - e) Classify minerals and write some general functions of minerals.
 - f) Define food and classify.



2. Long answer questions (**any two** out of three) : (2×5=10)
- a) Write the sources, deficiency manifestation of vitamin A.
 - b) Discuss the effect of deficiency of protein and its preventive measures.
 - c) Define basal metabolic rate and factors affecting basal metabolic rate.

3. Short answer questions (**any two** out of three) : (2×5=10)
- a) Describe the classification of carbohydrate.
 - b) Food fortification.
 - c) List the uses of recommended dietary allowances.

SECTION – B (30 marks)

Biochemistry

4. Long answer questions (**any four** out of five) : (4×5=20)
- a) Define proteins, classify them giving suitable examples.
 - b) Outline the pathway of glycolysis with its energetics.
 - c) Classify lipoproteins with their functions.
 - d) Describe competitive and non-competitive inhibition of enzymes with their examples.
 - e) Functions and deficiency manifestations of calcium.
5. Long answer questions (**any one** out of two) : (1×10=10)
- a) Describe sources, recommended daily allowance, biological functions and deficiency manifestations of vitamin D .
 - b) Define oxidative and non-oxidative deamination. Describe urea cycle with its metabolic disorders.
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62503

First Basic B.Sc. Nursing Examination, Summer 2015
NURSING FOUNDATION

Total Duration : Section A+B = 3 Hours

Total Marks : 75

SECTION – A & 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) : **(5x5=25)**
 - a) Concept of Health : Health illness continuum.
 - b) Health care team.
 - c) Nursing as a profession.
 - d) Consumer rights.
 - e) Assessment of respirations.
 - f) Maslow's hierarchy of needs.
2. Long answer question (**any one** out of two) : **(1x15=15)**
 - a) Discuss meaning of communication, levels, types, modes and methods of effective communication.
 - b) Describe the patients unit. How will you prepare the unit to receive an admission. Write the scientific principles of bed making.

P.T.O.



SECTION – B

(35 Marks)

3. Short answer question (**any four** out of five) : (4x5=20)
- a) Types of fever.
 - b) Hot water bag application.
 - c) Care of the unit after discharge.
 - d) Role of nurse in providing safe and clean environment.
 - e) Medical asepsis and surgical asepsis.
4. Long answer question (**any one** out of two) : (1x15=15)
- a) Discuss principles of body mechanics, importance of maintaining normal body alignment and mobility, hazards associated with immobility.
 - b) Discuss grief and grieving process, signs of clinical death and care of dying patient.
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First Basic B.Sc. Nursing Examination, Summer 2015
PSYCHOLOGY

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SECTION – A

(40 Marks)

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

(5×5=25)

- a) Attitude
- b) Effectors and connectors
- c) Difference between sensation and perception
- d) Factors influencing memory
- e) Problem Solving
- f) Abraham Maslows theory of Motivation.

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

(1×15=15)

- a) i) Define Attention. 2
- ii) Explain briefly the types and characteristics of attention. 6
- iii) Discuss in detail the various methods for arousing attention. 7



- b) i) Define Learning. 2
ii) Explain the laws of Learning. 6
iii) Describe learning by conditioning and its educational implication in nursing. 7

SECTION – B

(35 Marks)

3. Short answer question (**any four** out of five) : (4×5=20)
- a) Psychosexual development of personality
 - b) Stress
 - c) Defense Mechanisms
 - d) Psychological needs in adolescents
 - e) Aptitude.
4. Long answer question (**any one** out of two) : (1×15=15)
- a) i) Define Intelligence. 2
ii) Explain the nature of intelligence and characteristics of an ideally intelligent person. 6
iii) Discuss in detail the various intelligence tests with their uses and limitations. 7
 - b) i) Define Mental health and Mental Hygiene. 2
ii) Explain the basic principles of mental hygiene. 6
iii) Discuss in detail the warning signs of poor mental health. 7
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First Basic B.Sc. Nursing Examination, Summer 2015
MICROBIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

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SECTION – A

(40 Marks)

1. Short answer question (any five out of six) : (5×5=25)
 - a) Blood culture.
 - b) Write a note on bacterial growth curve.
 - c) Write a note on Koch's postulates.
 - d) Write pathogenicity of Candida albicans.
 - e) Life cycle of Ascaris Lumbricoides (round worm)
 - f) Write a note on gram staining.

2. Long answer question (any one out of two) : (1×15=15)
 - a) Draw a neat, well labelled diagram of HIV. Write modes of transmission of HIV. Write pathogenicity and laboratory diagnosis of HIV.
 - b) Enumerate respiratory tract infections. Write morphology, pathogenicity and laboratory diagnosis of Mycobacterium tuberculosis.

SECTION – B

(35 Marks)

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

(4×5=20)

- a) Write a note on Bacterial Cell wall.
- b) Agglutination reactions.
- c) Standard safety precautions while working in microbiology laboratory.
- d) Widal test.
- e) Type I Hypersensitivity reaction.

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

(1×15=15)

- a) Define sterilization. Describe in detail about sterilisation by heat.
- b) Define Immunity. Classify Immunity. Add a note on National Immunization schedule.

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