



## First BASIC B.SC. NURSING, Winter 2014

## Anatomy and Physiology

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 answer book for all section.

## Section "A" (42 Marks)

## Anatomy

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

(6x5=30)

- a) Synovial joint
- b) Classification of bones according to shape with examples
- c) Sartorius muscle
- d) Boundaries and contents of axilla
- e) Stomach bed
- f) Relations of right kidney
- g) Muscles of mastication

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

(1x12=12)

- a) Write in detail blood supply of heart
- b) Describe uterus under following heads i) Gross anatomy and Relations ii) Support iii) Applied Anatomy

## Section "B" (33 Marks)

## Physiology

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

(4x5=20)

- a) Write the functions of liver.
- b) Describe in brief the actions of growth hormone.
- c) Explain the transmission of an impulse across the Neuro-muscular junction.
- d) Write a note on functions of kidney.

4. Long answer question :

(1x13=13)

- a) Draw a well labelled diagram of conducting system of human heart.
- b) Describe in detail various parts of conducting system with its applied importance.

6  
7

OR

Long answer question :

(1x13=13)

- c) Describe in detail the gaseous exchange across the respiratory membrane.
- d) Describe in brief the transport of O<sub>2</sub> in blood.

6  
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Section - A & Section - B

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Section-A (45 marks)

Nutrition

Short answer questions (any five out of six) :

(5x5=25)

- 1) Classify foods according to their functions in the body.
- 2) Functions and requirements of water.
- 3) Importance of vegetables and fruits in a daily diet.
- 4) Meaning and importance of balance diet.
- 5) Soft diet.
- 6) List the principles and reasons for cooking.

Long answer questions (any two out of three) :

(2x5=10)

- 1) Plan a balance diet for female adolescent.
- 2) Methods of enriching the family diet.
- 3) National Nutritional programme in India.

Short answer questions (any two out of three) :

(2x5=10)

- 1) Food adulteration.
- 2) Functions of Carbohydrate.
- 3) Factors Influencing basal metabolic rate (BMR).



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

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

**SECTION – B (30 marks)**

**Biochemistry**

4. Long answer questions (**any four** out of five) : (4×5=20)
- Define proteins, classify them giving suitable examples.
  - Outline the pathway of glycolysis with its energetics.
  - Classify lipoproteins with their functions.
  - Describe competitive and non-competitive inhibition of enzymes with their examples.
  - Functions and deficiency manifestations of calcium.
5. Long answer questions (**any one** out of two) : (1×10=10)
- Describe sources, recommended daily allowance, biological functions and deficiency manifestations of vitamin D .
  - Define oxidative and non-oxidative deamination. Describe urea cycle with its metabolic disorders.
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First BASIC B.SC. NURSING, Winter 2014  
Nursing Foundation

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Total Marks :75

Section - A & Section - B

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**Section "A" (40 Marks)**

1. Short answer question (**any five** out of six) : (5x5=25)
  - a) Purposes of recording and reporting
  - b) Effects of heat application
  - c) Hazards associated with immobility
  - d) Golden rules of bandaging
  - e) Standard safety measures
  - f) Types of enemas
  
2. Long answer question (**any one** out of two) : (1x15=15)

Mr. Raju is admitted in medical ward with unconscious state. Answer the following

  - a) List different pressure points in different positions.(5) Write preventive measures of pressure sore (5) Write complications of neglected oral hygiene.(5)
  - b) Define nursing process.(2) Enlist steps in nursing process.(5) Prepare nursing care plan with two priority needs for a patient with severe diarrhea and vomiting (8)

**Section "B" (35 Marks)**

3. Short answer question (**any four** out of five) : (4x5=20)
  - a) Maslow's hierarchy of needs
  - b) Measures to promote rest and sleep
  - c) Factors influencing communication
  - d) Impact of illness on client
  - e) Care of dying patient

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

(1x15=15)

- a) Write qualities of nurse (5) Describe ethical principles in nursing (5) Explain nurse patient relationship. (5)
- b) Write various routes of administration of drug.(5) Enlist factors influencing drug action (3) Explain classification of drug(4) Write principles used in oral medication.(3)
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- 3) **All** questions are **compulsory**.
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**Section "A" (40 Marks)**1. Short answer question (**any five** out of six):

(5x5=25)

- a) Sources of Stress 115 authentic of 109
- b) Frustration 100 & 104 authentic
- c) Defence mechanisms 22 authentic
- d) Modes/ways of Learning 201 authentic
- e) Problem Solving. ~~201 authentic~~
- f) Attention 30 f 64 authentic

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

(1x15=15)

- a) Define Personality. Discuss in detail the factors affecting personality development. Explain briefly the types of personality. 56 authentic of
- b) Define Motivation. Write in detail the types of motives. Discuss any two theories of motivation. 94 96

**Section "B" (35 Marks)**3. Short answer question (**any four** out of five):

(4x5=20)

- a) Memory Process
- b) Kinds of Thinking
- c) Intelligence tests, their advantages and limitations
- d) Mental hygiene in old age.
- e) Attitude 116 f 134 authentic

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

a) Define Emotion. Write characteristics of emotion. Explain the role of emotions in health and sickness. 103 412101

b) Define Psychology. How does psychology help in good nurse-patient-relationship. Explain in brief the various methods used in psychology. 9

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## First BASIC B.SC. NURSING, Winter 2014

## Microbiology

Total Duration: Section A+B = 3 Hours

Total Marks : 75

## Section - A &amp; Section - B

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**Section "A" (40 Marks)**

1. Short answer question (**any five** out of six) : (5x5=25)
  - a) scope of Microbiology in Nursing practice
  - b) Define Immunity and Differentiate between Active and Passive Immunity.
  - c) Pathogenesis of Salmonella typhi
  - d) Universal Safety precautions
  - e) Describe the procedure of Gram staining and write down the names of 2 Gram Positive and Gram Negative organisms each
  - f) Hospital Infection Control
2. Long answer question (**any one** out of two) : (1x15=15)
  - a) Classify Culture Media. Describe each type of culture media with one example of each.
  - b) Define biomedical waste. Describe Biomedical waste management in detail.

**Section "B" (35 Marks)**

3. Short answer question (**any four** out of five) : (4x5=20)
  - a) Enumerate Koch's Postulates
  - b) Define sterilization and classify various methods of sterilization.
  - c) Classify viruses and explain the various methods of cultivation of viruses.
  - d) Describe various antigen antibody reactions and give example of each.
  - e) Write classification of bacteria based on their shape and give examples of each.
4. Long answer question (**any one** out of two) : (1x15=15)
  - a) Describe factors affecting growth of bacteria. Draw, label and explain the bacterial growth curve.
  - b) Describe various modes of transmission of infection with examples of each.