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Aurangabad - 431028

62504

First Basic B.Sc. Nursing Examination, Summer 2014
PSYCHOLOGY

Total Duration: Section A + B + C = 3 Hours

Section B & C Marks: 60

SECTION – B & SECTION – C

- 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 – B

(30 Marks)

2. Answer the following (**any five** out of six) :

(5×3=15)

- a) Explain frustration with examples.
- b) Explain the factors affecting attention, giving 3 examples.
- c) Explain three advantages of being a member of a group.
- d) Give three examples to illustrate body-mind relationship.
- e) Write the characteristics of a mentally healthy person.
- f) Explain about Forgetting.

3. Answer the following (**any three** out of four) :

(3×5=15)

- a) Explain the General adaptation syndrome by Hans Seyle with one example.
- b) Explain the Maslows hierarchy of needs.
- c) Explain the psychological needs of adolescents.
- d) Define perception. Explain the difference between illusion and hallucination.

SECTION – C

(30 Marks)

4. Answer the following (**any two** out of three) :

(2×15=30)

- a) Define memory.
 - i) Define learning.
 - ii) Explain the steps of learning process.
 - iii) Explain the factors that contribute to effective learning.
- b) Explain the factors that affect memory.
- c) Discuss various methods to improve memory.

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62503

First Basic B.Sc. Nursing Examination, Summer 2014
NURSING FOUNDATION

Total Duration : Section A + B + C = 3 Hours

Section B & C Marks : 60

SECTION – B & SECTION – C

- Instructions:**
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 - 7) **Use** common answer book for **all** Sections.

SECTION – B

(30 Marks)

2. Answer the following (**any five** out of six) :

(5×3=15)

- a) List down the ethical principles.
- b) Care of patients unit after discharge.
- c) Barriers of effective communication. 3
- d) Factors affecting sleep.
- e) Principles of bandaging.
- f) Enlist the different types of enema.

3. Answer the following (**any three** out of four) :

(3×5=15)

- a) Barrier nursing.
- b) Hot applications
- c) Functions of hospital
- d) Nursing as a profession.

SECTION – C

(30 Marks)

4. Answer the following (**any two** out of three) :

(2×15=30)

- a) Define nursing. Discuss the importance of records and reports. Explain the steps of nursing process.
- b) Enlist the methods of oxygen administration. List the Indication of oxygen administration. Discuss the Nurses responsibility in oxygen administration.
- c) List down the methods of medicine administration. Explain the rights of medicine administration. Write the Nurses responsibility in administration of drugs.

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62502

First Basic B.Sc. Nursing Examination, Summer 2014
NUTRITION AND BIOCHEMISTRY

Total Duration: Section A + B + C = 3 Hours

Section B & C Marks: 60

SECTION – B & SECTION – C

- Instructions :**
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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 – B

(35 Marks)

Nutrition

2. Answer the following (**any four** out of five) : (4x5=20)
 - a) Mid day meal programme
 - b) Functions and deficiency of Vitamin C
 - c) Protein energy malnutrition
 - d) Food preservation
 - e) Basal Metabolic Rate.
3. Explain the classification, sources and functions of carbohydrates. (1x7=7)
4. Explain the role of nurse in nutritional programmes. (1x8=8)

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SECTION – C

(25 Marks)

Biochemistry

5. Answer the following (**any three** out of four) :

(3x5=15)

- a) Write any five functions of vitamin C.
- b) Write five factors affecting rate of enzyme catalysed reaction.
- c) Describe the fluid mosaic structure of cell membrane.
- d) Write functional classification of proteins with suitable example for each class.

6. a) Write a note on aerobic glycolysis and its energetics.

(1x10=10)

OR

b) Describe the urea cycle. Explain its importance.

(1x10=10)



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62501

First Basic B.Sc. Nursing Examination, Summer 2014
ANATOMY AND PHYSIOLOGY

Total Duration : Section A + B + C = 3 Hours

Section B & C Marks : 60

SECTION – B & SECTION – C

- Instructions :**
- 1) Use **blue/black** ball point pen only.
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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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 - 7) Use a common answer book for **all** Sections.

SECTION – B

(30 Marks)

Anatomy

2. Answer the following (any three out of four) :

(3x5=15)

- a) Classification of bones
- b) Deltoid muscle
- c) Blood supply of stomach
- d) Name the chambers of heart and openings in the right atrium

3. Describe the mammary gland under the following headings :

(1x7=7)

- a) Morphology **3**
- b) Lymphatic drainage **2**
- c) Applied anatomy **2**

P.T.O.

62501



4. Describe the hip joint under the following headings :

(1x8=8)

a) Type.

1

b) Articular surfaces.

2

c) Ligaments.

2

d) Movements & muscles producing them.

3

SECTION – C

(30 Marks)

Physiology

5. Answer the following (any three out of four) :

(3x5=15)

a) Functions of white blood cells.

b) Write a note on vital capacity.

c) Functions of placenta.

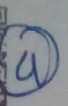
d) Role of skin in temperature regulation.

6. Describe different phases of cardiac cycle with a well labelled diagram.

(1x7=7)

7. Describe the composition and functions of gastric juice.

(1x8=8)



First BASIC B.SC. NURSING, Winter 2014

Microbiology

Total Duration: Section A+B = 3 Hours

Total Marks : 75

Section - A & Section - B

Instructions:

- 1) Use blue/black ball point pen only.
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- 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" (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.



First BASIC B.SC. NURSING, Winter 2014

Psychology

Total Duration: Section A+B = 3 Hours

Total Marks :75

Section - A & Section - B

Instructions:

- 1) Use blue/black ball point pen only.
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- 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" (40 Marks)

1. Short answer question (**any five** out of six) : (5x5=25)
 - a) Sources of Stress
 - b) Frustration
 - c) Defence mechanisms
 - d) Modes/ways of Learning.
 - e) Problem Solving.
 - f) Attention
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.
 - b) Define Motivation. Write in detail the types of motives. Discuss any two theories of motivation.

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

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

(1x15=15)

- a) Define Emotion. Write characteristics of emotion. Explain the role of emotions in health and sickness.
- b) Define Psychology. How does psychology help in good nurse-patient-relationship. Explain in brief the various methods used in psychology.

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First BASIC B.SC. NURSING, Winter 2014

Nursing Foundation

Total Duration: Section A+B = 3 Hours

Total Marks :75

Section - A & Section - B

Instructions:

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- 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" (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

P.T.O.

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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First BASIC B.SC. NURSING, Winter 2014

Nutrition and Biochemistry

Total Duration: Section A+B = 3 Hours

Total Marks : 75

Section - A & Section - B

Instructions:

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- 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 (45 marks)

Nutrition

1. Short answer questions (any five out of six) : (5x5=25)
 - a) Classify foods according to their functions in the body.
 - b) Functions and requirements of water.
 - c) Importance of vegetables and fruits in a daily diet.
 - d) Meaning and importance of balance diet.
 - e) Soft diet.
 - f) List the principles and reasons for cooking.
2. Long answer questions (any two out of three) : (2x5=10)
 - a) Plan a balance diet for female adolescent.
 - b) Methods of enriching the family diet.
 - c) National Nutritional programme in India.
3. Short answer questions (any two out of three) : (2x5=10)
 - a) Food adulteration.
 - b) Functions of Carbohydrate.
 - c) Factors Influencing basal metabolic rate (BMR).

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

(4×5=20)

- a) Classify Enzymes giving suitable example.
- b) Write functions and deficiency manifestations of Vitamin A.
- c) Classify Immunoglobulins and write one function of each class.
- d) Draw structure and write functions of Mitochondria.
- e) Write functional classification of proteins with suitable example.

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

(1×10=10)

- a) Describe the steps of TCA cycle. Add a note on its energetics.
 - b) Describe beta-oxidation of Palmitic acids. Add a note on its energetics.
-



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First BASIC B.SC. NURSING, Winter 2014

Anatomy and Physiology

Total Duration: Section A+B = 3 Hours

Total Marks :75

Instructions:

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- 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.
- e) Describe the visual pathway with a neat labelled diagram.

P.T.O.

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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.

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OR

Long answer question :

(1x13=13)

- c) Describe in detail the gaseous exchange across the respiratory membrane.
- d) Describe in brief the transport of O₂ in blood.

6

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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) :

(5x5=25)

- ✓ a) Functions of hospital.
- ✓ b) Methods of Physical examination.
- ✓ c) Nursing intervention to promote sleep.
- ✓ d) Five rights for safety in administering drugs.
- ✓ e) Nursing as a profession.
- f) Comfort devices.

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

(1x15=15)

- a) Define nursing process. Enlist the steps of nursing process. State the difference between actual and potential problem. Explain data collection methods.
- ✓ b) Define Pyrexia. Enumerate factors affecting body temperature. List different types of fever. Describe nursing management of patients with fever.

Section "B" (35 Marks)

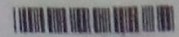
3. Short answer question (**any four** out of five) :

(4x5=20)

- ✓ a) Importance of records and reports.
- ✓ b) Nursing responsibility during oxygen administration.
- ✓ c) Principles of body mechanics.
- ✓ d) Standard safety precautions.
- e) Basic life support.



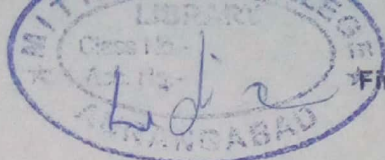
P.T.O.



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

(1x15=15) ▼

- a) Define enema. What are the various types of evacuant enemas ? Explain about simple cleansing enema and important observations to be recorded.
- ✓ b) Define communication. Explain in short techniques of therapeutic communication. What are the points to be kept in mind while communicating with physically challenged clients ?
-

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- 7) Use a common answer book for **all** Sections.

Section-A (45 marks)**Nutrition**

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

(5x5=25)

- a) Discuss food adulteration.
- b) Explain Mid day meal programme.
- c) Discuss Micro and Macro nutrients.
- d) Classification of Carbohydrate.
- e) Explain factors affecting Basal Metabolic Rate.
- f) Explain the functions of Vitamin D.

2. Long answer questions (**any two** out of three) :

(2x5=10)

- a) Discuss principles of Menu planning.
- b) Describe the effect of cooking on carbohydrates.
- c) Explain the deficiency disorders of Vitamin A.

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

(2x5=10)

- a) Explain the factors to be considered while serving food to the patient.
- b) Explain factors affecting nutrition.
- c) Discuss the use of heat for food preservation.



Section-B (30 marks)

Biochemistry

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

(4 x5=20)

- a) Write diagnostic significance of enzymes.
- b) Write a note on essential fatty acids.
- c) Describe Cori's cycle.
- d) Enumerate fat soluble vitamins. Give an account of biochemical functions of Vitamin A.
- e) What are immunoglobulins? Give their types along with functions.

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

(1x10=10)

- a) Describe oxidation of fatty acids with its energetics.
- b) Give sources and functions of calcium. Describe serum calcium regulation.



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

Section "A" (42 Marks)
Anatomy

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

(6x5=30)

- a) Classification of synovial joints with one example
- b) Interior of right atrium
- c) Relations of urinary bladder
- d) Sternocleidomastoid muscle
- e) Blood supply and lymphatic drainage of mammary gland
- f) Bronchopulmonary segments
- g) Structure and function of skin.

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

(1x12=12)

- a) Describe the thyroid gland under the following headings:
(i) Morphology & situation, (ii) Relations, (iii) Blood supply, (iv) Clinical anatomy
- b) Describe the stomach under the following headings:
(i) Parts & gross anatomy, (ii) Visceral & peritoneal relations, (iii) Lymphatic drainage,
(iv) Applied anatomy

Section "B" (33 Marks)
Physiology

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

(4x5=20)

- a) Enumerate hormones secreted by anterior pituitary gland. Write a note on Acromegaly.
- b) Functions of Plasma proteins.
- c) Draw and describe Neuromuscular junction.
- d) Write a short note on ovulation.
- e) Define Reflex. Draw a neat labelled diagram of reflex arc.

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4. Long answer question :

(1x13=13)

- a) Enumerate phases of Deglutition. Describe the second phase of deglutition.
- b) Describe lung volumes and capacities with the help of a neat labelled diagram.

6

7

OR

Long answer question :

(1x13=13)

- c) Classify White blood cells. Write the characteristics and functions of each type.
- d) Define Cardiac Output. Explain the factors regulating cardiac output.

6

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First Basic B.Sc. Nursing Examination, Summer 2015
PSYCHOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

- Instructions :**
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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) 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

P.T.O.

62504



- | | |
|--|---|
| 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 |
-

9



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

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** Section.

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. 3

c) Describe the effect of deficiency of water and its management. 2

d) Describe the effect of deficiency and excess of fat in diet. 2

e) Classify minerals and write some general functions of minerals.

f) Define food and classify. 2

P.T.O.



2. Long answer questions (**any two** out of three) : (2×5=10)

- a) Write the sources, deficiency manifestation of vitamin A. 3
- b) Discuss the effect of deficiency of protein and its preventive measures.
- c) Define basal metabolic rate and factors affecting basal metabolic rate. 4

3. Short answer questions (**any two** out of three) : (2×5=10)

- a) Describe the classification of carbohydrate. 3
- b) Food fortification. - 3
- 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. 2
- b) Outline the pathway of glycolysis with its energetics.
- c) Classify lipoproteins with their functions. 2
- d) Describe competitive and non-competitive inhibition of enzymes with their examples. - 1
- 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. 6
 - b) Define oxidative and non-oxidative deamination. Describe urea cycle with its metabolic disorders.
-



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. $2\frac{1}{2}$ 3
- b) Deltoid muscle. $2\frac{1}{2}$
- c) Femoral Triangle. $\frac{1}{2}$
- d) Define Mediastinum. Mention its division and enumerate the contents of middle mediastinum. 3
- e) Draw neat labelled diagram showing anterior relations of left kidney. 3
- f) Describe nerve supply of tongue. 3
- g) Describe blood supply of thyroid gland. 2

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 | 2 | (3) |
| b) Blood supply | 2 | (3) |
| c) Lymphatic drainage | 1 | (3) |
| d) Applied Anatomy | 1 | (3) |

b) Describe synovial joint under following heads :

- | | | |
|-----------------------------|-------|-----|
| a) Structure | 2 | (3) |
| b) Classification | 2 1/2 | (3) |
| c) Mechanism of lubrication | - | (3) |
| d) Applied Anatomy | 2 | (3) |

SECTION - B (33 Marks)

Physiology

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

(4×5=20)

- Functions of Testosterone. 3
- Enumerate the different blood group system. Importance of determination of blood groups. 2
- Different mechanism for regulating body temperature. 2
- Functions of thyroid hormones. Add a note on hypothyroidism. 1
- Cerebrospinal fluid. 2

4. Long answer question :

(1×13=13)

- Define and describe the process of blood coagulation. 6
- Composition and functions of gastric juice. Write briefly about phases of gastric secretion. 7

OR

Long answer question :

(1×13=13)

- Describe the process of Oxygen transport from lungs to tissues. 6
- Define and draw a diagram of cardiac cycle. Describe the ventricular events in cardiac cycle. 7



First Basic B.Sc. Nursing Examination, Winter 2016
MICROBIOLOGY

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** section.

SECTION – A (40 Marks)

1. Short answer question (**any five** out of six) : (5×5=25)
 - a) Bio-medical Waste management.
 - b) Anaerobic culture methods.
 - c) Blood culture.
 - d) Define antibody and explain in detail about IgM antibody.
 - e) Bacterial spore.
 - f) Enlist Koch's Postulates.
2. Long answer question (**any one** out of two) : (1×15=15)
 - a) What are nosocomial infections ? What are the common causes of nosocomial infections ? What is the role of nurse in controlling nosocomial infections ?
 - b) Describe Growth curve of Bacteria with a labelled diagram. What is the effect of temperature, moisture and presence of oxygen on the growth of bacteria ?

R.T.O.



SECTION – B (35 Marks)

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

(4×5=20)

- a) Describe pathogenicity of Salmonella.
- b) Highlight the importance of sample collection in Microbiology.
- c) What are the different parts of a microscope and how you will take care of the microscope ?
- d) List 4 DNA viruses and 4 RNA viruses.
- e) Laboratory diagnosis of pulmonary tuberculosis.

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

(1×15=15)

- a) What is disinfection ? Describe various chemical methods of Disinfection.
 - b) Draw a neat and well labelled diagram of bacterial cell. Describe in detail about different organelles of bacteria.
-



First Basic B.Sc. Nursing Examination, Winter 2016
PSYCHOLOGY

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

(40 Marks)

1. Short answer question (**any five** out of six) : **(5×5=25)**
 - a) Importance of psychology in nursing.
 - b) Explain Psycho-analytical theory given by Sigmund Freud.
 - c) Enlist Projective Tests and explain Rorchachs Ink Blot Test.
 - d) Write the factors that influence the development of personality.
 - e) Make a list of Mental Mechanisms and explain any two with examples.
 - f) Explain Nurse - Patient Relationship.
2. Long answer question (**any one** out of two) : **(1×15=15)**
 - a)
 - i) Define Learning. **(2)**
 - ii) Explain three major laws of learning. **(5)**
 - iii) Explain theory of trial and error with experiment/ example. **(8)**
 - b)
 - i) Define Psychology. **(2)**
 - ii) Explain Observational method of psychology. **(5)**
 - iii) Explain psycho-sexual stages according to Sigmund Freud. **(8)**

P.T.O.



SECTION – B

(35 Marks)

(4×5=20)

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

- a) Explain self actualization.
- b) Influence of culture to shape the personality.
- c) Mental Hygiene.
- d) Causes of Mental Retardation.
- e) Psychological problems of women.

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

(1×15=15)

- a)
 - i) Define motivation. (2)
 - ii) Write the types of motives. (5)
 - iii) Explain the Maslow's theory of Hierarchy of Needs. (8)
 - b)
 - i) Define emotion. (2)
 - ii) Explain the internal (physiological) changes in emotion. (5)
 - iii) Write the role of nurse in control of emotions in self and patient. (8)
-



First Basic B.Sc. (Nursing) Examination, Winter 2016
NUTRITION AND BIOCHEMISTRY

Total Duration : Section A+B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

- Instructions :**
- 1) Use **blue/black** ball point pen **only**.
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 - 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)
(Nutrition)

1. Short answer question (**any five** out of six) : **(5×5=25)**
 - a) Functional classification of proteins and write functions of proteins.
 - b) Factors affecting food and nutrition.
 - c) Principles and methods of cooking.
 - d) Mid-day meal programme.
 - e) Digestion of fat.
 - f) Role of Nurse in Nutrition education.
2. Long answer question (**any two** out of three) : **(2×5=10)**
 - a) Explain balance diet its important.
 - b) State importance of vitamins in diet.
 - c) Prepare a menu plan for diabetic patient.

P.T.O.



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

(2×5=10)

- a) Food Adulteration Act.
- b) Protein energy malnutrition.
- c) Electrolyte imbalances and its effect.

SECTION – B (30 Marks)
(Biochemistry)

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

(4×5=20)

- a) Describe Urea cycle.
- b) Write any four factors affecting enzyme activity.
- c) Diagrammatic representation of immunoglobulins and state functions of IgG and IgM.
- d) Enumerate various transport mechanisms. Add note on active transport.
- e) Write five biochemical functions of calcium.

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

(1×10=10)

- a) Describe aerobic and anaerobic glycolysis with its energetics.
 - b) Describe beta-oxidation of palmitic acids with its energetics.
-



First Basic B.Sc. Nursing Examination, Winter 2016
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 answerbook for **all** section.

SECTION – "A" (42 Marks)

(Anatomy)

1. Short answer question (**any six** out of seven) : **(6x5=30)**
 - a) Endoplasmic reticulum.
 - b) Biceps brachii muscle.
 - c) Popliteal fossa.
 - d) Define mediastinum. Mention its division and enumerate contents of superior mediastinum.
 - e) Draw neat labelled diagram of posterior relations of right kidney.
 - f) Structure and functions of skin.
 - g) Fibromuscular or mechanical supports of the uterus.
2. Long answer question (**any one** out of two) : **(1x12=12)**
 - a) Describe pancreas under following heads :
 - i) Relations **(7)**
 - ii) Blood supply **(3)**
 - iii) Applied anatomy. **(2)**

P.T.O.



b) Describe bones under following heads:

- i) Classification (7)
- ii) Blood supply (3)
- iii) Applied anatomy. (2)

SECTION – "B" (33 Marks)

(Physiology)

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

(4x5=20)

- a) Role of Skin in Temperature regulation.
- b) Composition and Functions of Saliva.
- c) Ovulation.
- d) Functions of cerebellum.
- e) Functions of Stomach.

4. Long answer question :

(1x13=13)

- a) Define Haemostasis and write the functions of Platelets. 6
- b) Enumerate the steps in Haemostasis. Describe the intrinsic pathway of Haemostasis. 7

OR

Long answer question :

(1x13=13)

- c) Define GFR. Explain the factors affecting GFR. 6
- d) Explain briefly the counter current multiplier mechanism of Kidney. 7



First Basic B.Sc. Nursing Examination, Summer 2016
MICROBIOLOGY

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

(40 Marks)

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

(5×5=25)

- a) Grams staining.
- b) Mention different modes of transmission of infection
- c) Bacterial growth curve.
- d) Life cycle of Malaria parasite.
- e) Candidiasis.
- f) Precipitation reaction.

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

(1×15=15)

- a) Mention the modes of transmission of HIV. Write in detail about pathogenesis and Laboratory diagnosis of AIDS.
- b) Define Nosocomial infection. Describe common Nosocomial infections. Role of a nurse in prevention of nosocomial infection.

P.T.O.



SECTION – B

(35 Marks)

(4×5=20)

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

- a) Classify culture media with example.
- b) Difference between Active and Passive immunity.
- c) Biomedical waste segregation.
- d) Bacterial Flagella.
- e) Define carrier. Explain different types with examples.

(1×15=15)

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

- ✓ a) Define Sterilization and Disinfection. Write characteristics of good disinfectant. Describe uses, structure, functioning of Hot air oven.
- b) Enlist organisms causing respiratory tract infection. Write in detail about pathogenesis and laboratory diagnosis of Tuberculosis.

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First Basic B.Sc. Nursing Examination, Summer 2016
PSYCHOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

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 - 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

(40 Marks)

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

(5×5=25)

- a) Define Psychology. Why is it called the science or art ?
- b) What is Body Mind Relationship ?
- c) What are the Theories of Learning ?
- d) What is Aptitude and Attitude ?
- e) Explain Frustration.
- f) What is Intelligence ? State its importance for nurses.

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

(1×15=15)

- a) i) Define Mental Hygiene.
- ii) Explain the principles of Mental Hygiene.
- iii) Discuss in detail the causes for poor Mental Health.
- b) i) Define Emotion.
- ii) Describe the components of an Emotion.
- iii) Explain briefly the different theories of an emotion.

P.T.O.



SECTION – B

(35 Marks)

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

(4×5=20)

- ✓ a) What are defence mechanisms ?
- ✓ b) What is psycho-social development of Personality ?
- ✓ c) Explain Abraham Maslow's Theory of Motivation.
- d) What are Habits and Skills ?
- ✓ e) Explain the concept of Counselling.

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

(1×15=15)

- a)
 - i) Define Perception.
 - ii) What is the difference between perception and sensation ?
 - iii) Explain briefly the principles of perception.
- ✓ b)
 - i) Define Memory.
 - ii) Discuss about the various types of memory.
 - iii) Explain briefly the different factors which can influence memory.

2

5

2

5

8



First Basic B.Sc. Nursing Examination, Summer 2016
NURSING FOUNDATION

Total Duration: Section A+B = 3 Hours

Total Marks :75

SECTION – A & SECTION – B

- Instructions:**
- 1) Use **blue/black** ball point pen only.
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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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 - 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) Nursing measures to ensure rest and sleep in illness.
 - b) Qualities of a Nurse.
 - c) Care of dying patient.
 - d) Types of comfort devices.
 - e) Asepsis.
 - f) Routes of drug administration.
2. Long answer question (**any one** out of two) : (1×15=15)
 - a) Describe causes of bed sore. Name the pressure points. How will you prevent bed sore in a bed ridden client ?
 - b) Describe the common problems of mouth cavity. Name the dentifrices used in mouth care. Nursing responsibilities during mouth care of unconscious client.

P.T.O.



SECTION – B

(35 Marks)

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

(4×5=20)

- a) Nursing as a profession.
- b) Types of records.
- c) Hospice Care.
- d) Care of rubber goods
- e) Indication of Nasogastric tube feeding.

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

(1×15=15)

- a) Define nursing process. List down any 5 Nursing Diagnosis. Write down the steps of Nursing Process.
 - b) Define Communication. Types of Communication. Barriers of Communication.
-



First Basic B.Sc. Nursing Examination, Summer 2016
NUTRITION AND BIOCHEMISTRY

Total Duration : Section A+B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

Instructions: 1) Use **blue/black** ball point pen only.

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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)

(Nutrition)

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

(5×5=25)

- Role of nutrition in maintaining health of geriatric client.
- Classification of foods.
- Difference between kwashiorkor and marasmus.
- Deficiency diseases of Iron and its rich dietary sources.
- Integrated Child Development Scheme (ICDS).
- Therapeutic purposes of Naturopathy - Diet.

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

(2×5=10)

- Nutritional problems in India.
- Absorption, synthesis and metabolism of minerals.
- Principles of weaning and foods included.

P.T.O.



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

(2×5=10)

- a) Safe food preparation practices.
- b) Role of nurse in nutritional education.
- c) Food additives and its principles.

SECTION – B

(30 Marks)

(Biochemistry)

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

(4×5=20)

- a) Classify carbohydrates with suitable example.
- b) Functions of proteins.
- c) Digestion and absorption of Lipids.
- d) Classify enzymes with suitable examples.
- e) Factors affecting calcium absorption.

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

(1×10=10)

- a) Describe sources, biochemical functions and deficiency manifestation of Vitamin A.
 - b) Explain in detail different types of buffers and role of buffers in maintaining acid base balance.
-



First Basic B.Sc. Nursing Examination, Summer 2016
ANATOMY AND PHYSIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

- Instructions :**
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 - 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
(Anatomy)**

(42 Marks)

1. Short answer question (**any six** out of seven) : **(6×5=30)**
 - a) Classification of bones according to shape and write it's functions
 - b) Blood supply of heart
 - c) Relations and ligaments of spleen
 - d) Nerve supply of tongue
 - e) Enumerate formation and branches of brachial plexus
 - f) Structures under cover of gluteus maximus muscle
 - g) Functional areas on superolateral surface of brain.
2. Long answer question (**any one** out of two) : **(1×12=12)**
 - a) Describe the uterus under the following heads :
 - i) size, shape, normal position and angulation
 - ii) parts of uterus
 - iii) supports of uterus
 - iv) Applied anatomy.

P.T.O.



- b) Describe the left lung under the following heads :
- i) features
 - ii) root
 - iii) mediastinal surface
 - iv) Applied anatomy.

SECTION – B
(Physiology)

(33 Marks)

(4×5=20)

3. Short answer question (any four out of five) :
- a) Write a note on sarcomere
 - b) Composition and functions of saliva
 - c) Conducting system of heart
 - d) Mechanisms for body temperature regulation
 - e) Write a note on diabetes mellitus.

(1×13=13)

4. Long answer question :
- a) Define and classify Anaemia. 6
 - b) Describe process of urine formation. 7

OR

Long answer question :

(1×13=13)

- c) Enumerate functions of lungs. Add a note on Oxygen-Haemoglobin dissociation curve. 6
- d) Define Menstrual cycle. Write briefly about phases of menstrual cycle. 7

First Basic B.Sc. Nursing Examination, Summer 2017
MICROBIOLOGY

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

(40 Marks)

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

(5×5=25)

- a) Precipitation reaction.
- b) Widal test.
- c) Write contributions of Louis Pasteur to microbiology.
- d) Grams staining.
- e) Draw diagram of bacterial cell and explain briefly.
- f) Write standard safety precautions while working in microbiology laboratory.

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

(1×15=15)

- a) Define and classify Immunity. Distinguish between Active and Passive Immunity.
Write short note on innate Immunity.
- b) Describe morphology of Bacteriophage with neat and well labelled diagram.
Describe in detail about various viral isolation methods.

P.T.O.



SECTION – B

(35 Marks)

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

(4×5=20)

- a) Biomedical waste management.
- b) Life cycle of malaria parasite.
- c) Describe the normal microbial flora of different parts of the body.
- d) Blood culture.
- e) Laboratory diagnosis of urinary tract infections.

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

(1×15=15)

- a) Define Sterilization and Disinfection. Classify methods of Sterilization. Write a short note on Hot Air oven.
 - b) Draw a neat diagram of HIV. Write the causes of HIV infection. Write the stages of HIV infection.
-

02304

First Basic B.Sc. Nursing Examination, Summer 2017
PSYCHOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A and 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 (40 Marks)

1. Short answer question (**any five** out of six) : (5×5=25)
 - a) Define mind. Give 3 examples of mind affecting bodily functions.
 - b) Define Attention. Explain the various External and Internal determinants of Attention.
 - c) What are the causes of Individual Differences ?
 - d) What is forgetting ? What are the causes of forgetting ?
 - e) What is the difference between guidance and counselling ?
 - f) What should nurses know about elderly patients ?
2. Long answer question (**any one** out of two) : (1×15=15)
 - a) Define Learning. Explain the characteristics of Learning. What are the Laws of Learning ?
 - b) Define Psychology. Discuss the relevance of psychology to nursing.

P.T.O.



SECTION – B (35 Marks)

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

(4×5=20)

- a) What is intelligence ? How is it tested ?
- b) What are the characteristics of a mentally healthy individual ?
- c) Describe different defense mechanisms used in stress.
- d) Explain Maslow's theory of Self Actualization.
- e) Describe the various types of thinking

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

(1×15=15)

- a) Define Emotions. List the theories of emotions. Explain the role of emotions in health and illness.
 - b) Define the nature of attitude. What are the various factors affecting attitude ? How does understanding attitude help in predicting behavior ?
-



First Basic B.Sc. Nursing Examination, Summer 2017
NURSING FOUNDATION

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

- Instructions:**
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 - 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 (40 Marks)

1. Short answer question (**any five** out of six) : (5×5=25)
 - a) Nursing care of client with retention of urine.
 - b) Strokes used in Back massage.
 - c) Maslow's hierarchy of needs.
 - d) Functions of nurse.
 - e) Collection of urine specimen for culture.
 - f) Post operative unit.
2. Long answer question (**any one** out of two) : (1×15=15)
 - a)
 - i) What is physical examination ? 2
 - ii) List the purposes of physical examination. 4
 - iii) Enumerate the different methods of physical examination. 4
 - iv) Write the role of nurse in physical examination. 5
 - b)
 - i) Enlist methods of local dry heat applications. 3
 - ii) Write the purposes of steam inhalation. 4
 - iii) What important recordings you will do after steam inhalation ? 3
 - iv) Describe the scientific principles applied to steam inhalation. 5

P.T.O.



SECTION – B (35 Marks)

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

(4×5=20)

- a) Nurse's responsibility in medicine administration.
- b) Standard safety precautions.
- c) Discharge procedure of client.
- d) Safety devices.
- e) Health care team.

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

(1×15=15)

- a) i) Enlist the causes for Pressure Sores.
- ii) What are the common sites of pressure sores ?
- iii) How will you prevent pressure sores in an unconscious patient ?
- iv) Write the scientific principles involved in back care.
- b) i) Define Blood Pressure.
- ii) Describe the variations in Blood Pressure.
- iii) Enlist the factors causing variations in Blood Pressure.
- iv) Write the scientific principles related to Blood Pressure.

3
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4
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First Basic B.Sc. Nursing Examination, Summer 2017
NUTRITION AND BIOCHEMISTRY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A and 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)
(Nutrition)

1. Short answer questions (**any five** out of six) : (5×5=25)
 - a) Describe the deficiency diseases of vitamin D.
 - b) Factors affecting food and nutrition.
 - c) Composition of body fluids.
 - d) Describe the functions of protein.
 - e) Methods of cooking and effect of cooking on food constituents.
 - f) Integrated Child Development Scheme.
2. Long answer questions (**any two** out of three) : (2×5=10)
 - a) Define and classify fat.
 - b) Write the sources and effect of deficiency of iron.
 - c) List sources of thiamine and effect of its deficiency.

P.T.O



First Basic B.Sc. Nursing Examination, Summer 2017
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 answerbook for **all** Sections.

SECTION – A

(Anatomy)

(42 Marks)

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

(6×5=30)

- a) Boundaries and contents of axilla.
- b) Interior of the right atrium.
- c) Sartorius muscle.
- d) Primary supports of uterus.
- e) Differences between the small intestine and large intestine.
- f) Nerve supply of tongue.
- g) Morphological and functional divisions of cerebellum.

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

(1×12=12)

a) Describe rectus sheath under following heads :

- i) Definition and Features
- ii) Formation
- iii) Contents
- iv) Function and Applied anatomy.

3
3
3
3



b) Describe left kidney under following heads :

- | | |
|-------------------------|---|
| i) Anterior relations | 3 |
| ii) Posterior relations | 3 |
| iii) Arterial supply | 2 |
| iv) Venous drainage | 2 |
| v) Applied anatomy. | 2 |

SECTION – B

(Physiology)

(33 Marks)

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

(4×5=20)

- a) Rh incompatibility.
- b) Puberty.
- c) Composition and Functions of Cerebrospinal Fluid (CSF).
- d) Actions of Thyroid hormone. Add a note on Hyperthyroidism.
- e) Explain the mechanism of muscle contraction.

4. Long answer question :

(1×13=13)

- a) Describe the structure, synthesis and functions of Haemoglobin. Add a note on Anaemia. 6
- b) Define Cardiac Output. Explain the factors regulating Cardiac Output. 7

OR

Long answer question :

(1×13=13)

- c) Describe the Composition and Functions of Pancreatic juice. 6
- d) Describe transport of Oxygen from lungs to the tissues. Draw a neat labelled diagram of Oxygen-Haemoglobin dissociation curve. 7



First Basic B.Sc. Nursing Examination, Winter 2017
MICROBIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

- Instructions :**
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 - 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 (40 Marks)

1. Short answer question (**any five** out of six) : (5×5=25)
 - a), Koch's Postulates.
 - b) Write down the principle and application of agglutination reaction.
 - c) Write in short about autoclave.
 - d) Draw well labelled diagram of embryonated egg. Mention the various sites of inoculation of viral specimens with examples.
 - e) Write down the differences between amoebic and bacillary dysentery.
 - f) Universal safety precautions.
2. Long answer question (**any one** out of two) : (1×15=15)
 - a) Write pathogenesis and laboratory diagnosis of enteric fever.
 - b) Write in detail about Hospital waste management.

P.T.O.



SECTION – B (35 Marks)

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

(4×5=20)

- a) Write down the differences between oral and killed polio vaccine.
- b) What are the various modes of transmission of infections ?
- c) Write down the morphological classification of fungi with examples.
- d) Bacterial growth curve.
- e) Write the life cycle of *Pl. vivax*.

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

(1×15=15)

- a) Draw well labelled diagram of HIV virus. Write modes of Transmission of AIDS. Write in detail pathogenesis and laboratory diagnosis of AIDS.
 - b) Enumerate the organisms causing urinary tract infection. Write down the laboratory diagnosis of UTI.
-

First Basic B.SC. Nursing Examination, Winter 2017
PSYCHOLOGY

Total Duration: Section A+B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

- Instructions :**
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 - 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

(40 Marks)

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

(5×5=25)

- a) Projective Tests in Psychology.
- b) Nurse-Patient Relationship.
- c) Factors affecting Learning.
- d) Characteristics of Mentally Healthy Person.
- e) Explain concepts of Id, Ego and Super-ego with examples.
- f) Clinical Method in Psychology.

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

(1×15=15)

- a)
 - i) Explain any five Mental Mechanisms. 5
 - ii) Write the advantages of mental mechanisms. 5
 - iii) Importance of psychology for nurses. 5
- b)
 - i) What do you mean by individual differences ? 2
 - ii) What are the types of individual differences ? 3
 - iii) Write the significance of understanding individual differences in patient care for nurses. 7
 - iv) Explain introvert type of personality. 3

P.T.O.



SECTION – B

(35 Marks)

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

(4×5=20)

- a) Explain the external changes that occurs during emotional reactions.
- b) Define Hallucination and its types.
- c) Discuss various methods to improve memory.
- d) Enumerate development of Attributes. How does the study of Attributes help the nurse in patient care ?
- e) Write the causes of Mental Retardation.

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

(1×15=15)

- a)
 - i) Define Psychology. 2
 - ii) Explain the Observational method. 5
 - iii) Explain how the study of psychology is important for student nurse. 8
 - b)
 - i) What is meant by self-Actualization ? 2
 - ii) Write the phases of counselling. 5
 - iii) Write the psychological needs of an infant. 5
 - iv) Write a note on Stress Adaptation. 3
-



62503

First Basic B.Sc. Nursing Examination, Winter 2017
NURSING FOUNDATION

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A and 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.
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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) Health illness continuum.
- b) Admission procedure.
- c) Communication skills.
- d) Levels of critical thinking in Nursing.
- e) Importance of Reports.
- f) Maslow's hierarchy of Needs.

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

(1×15=15)

- a) Define Blood Pressure. Write factors affecting blood pressure and assessment of blood pressure.
- b) Discuss Peplau's theory and its implication to nursing.



SECTION – B (35 Marks)

3. Short answer question (**any four** out of five) : (4×5=20)
- a) Role of nurse in providing safe environment.
 - b) Factors affecting sleep.
 - c) Body mechanics.
 - d) Measuring fluid intake and output.
 - e) Stages of grieving and Nursing implication.
4. Long answer question (**any one** out of two) : (1×15=15)
- a) Explain Health history taking Methods of Physical Examination and assessment of cardiovascular system.
 - b) Explain composition and characteristics of urine. Factors influencing Urination and Condom drainage.
-



First Basic B.Sc. Nursing Examination, Winter 2017
NUTRITION AND BIOCHEMISTRY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

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- 4) The number to the **right** indicates **full** marks.
- 5) Draw diagrams **wherever** necessary.
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- 7) **Use** a common answer book for **all** Sections.

SECTION – A (45 Marks)

Nutrition

1. Short answer question (**any five** out of six) :
 - a) Integrated Child Development Scheme.(ICDS) ✓
 - b) Classification of fats. ✓
 - c) Discuss principles of cooking. ✓
 - d) Factors affecting iron absorption.
 - e) Weaning. ✓
 - f) National Iodine Deficiency Disorder Programme.

(5×5=25)
programme

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

(2×5=10)

- a) Define malnutrition. Describe the clinical features of severe protein energy malnutrition.
- b) Describe the Classification and functions of fats.
- c) Write classification of vitamins, functions and deficiency of vitamin C.

P.T.O.



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

(2×5=10)

- a) Food adulteration and its prevention.
- b) Therapeutic diet for a patient with hypertension.
- c) Dietary management of patient with dehydration.

SECTION – B (30 marks)

Biochemistry

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

(4×5=20)

- a) Structure and functions of Mitochondria.
- b) Functions and deficiency manifestations of Vitamin A.
- c) Transamination reactions.
- d) Classification of Enzymes with suitable examples.
- e) Functions of Iron.

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

60 W
50 W

(1×10=10)

- a) Describe regulation of Blood Sugar levels.
 - b) Describe steps in beta oxidation of fatty acids.
-



First Basic B.Sc. Nursing Examination, Winter 2017
ANATOMY AND PHYSIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

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- 7) Use a common answerbook for all sections.

SECTION – A (42 Marks)
(Anatomy)

1. Short answer question (**any six** out of seven) : **(6×5=30)**

- a) Secondary cartilaginous joint.
- b) Stomach bed.
- c) Popliteal fossa.
- d) Bronchopulmonary segments.
- e) Supports of uterus.
- f) Sternocleidomastoid muscle.
- g) Muscles of mastication.

2. Long answer question (**any one** out of two) : **(1×12=12)**

- a) Describe shoulder joint under the following headings :
 - i) Type and articular surfaces **(2)**
 - ii) Ligaments **(3)**
 - iii) Movements and muscles producing movements **(4)**
 - iv) Applied anatomy **(3)**

P.T.O.



b) Describe parotid gland under the following headings :

- i) Gross structure and relations (3)
- ii) Blood supply (3)
- iii) Nerve supply (3)
- iv) Applied Anatomy (3)

SECTION – B (33 Marks)

(Physiology)

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

(4×5=20)

- a) Functions of Bile.
- b) Mechanisms of Blood Pressure regulation.
- c) Spermatogenesis.
- d) Functions of Skin.
- e) Define Diabetes Mellitus and explain Physiological actions of Insulin Hormone.

4. Long answer question.

(1×13=13)

- a) Describe the process of Blood Coagulation. Write a note on bleeding time and clotting time. **6**
- b) Describe the Neural regulation of Respiration. **7**

OR

Long answer question :

- c) Define GFR. What are the factors regulating GFR ? **6**
- d) Define and classify immunity. Write a note on role of B Lymphocytes in immunity. **7**

First Basic B.Sc. Nursing Examination, Summer 2018
MICROBIOLOGY

Total Duration : Section A+B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

- Instructions :**
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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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 - 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) Write differences between Active and Passive Immunity.
 - b) Write a note on Candidiasis.
 - c) Write a note on Grams staining.
 - d) Classify immunoglobulins and write in short about IgG.
 - e) Contribution of Louis Pasteur.
 - f) Define carrier and describe various types of carrier with example.
2. Long answer question (**any one** out of two) : **(1×15=15)**
 - a) Enlist organisms causing diarrhea. Write in detail about pathogenesis and laboratory diagnosis of cholera.
 - b) Define Sterilization and Disinfection. Enumerate methods of sterilization. Write the principles and functioning of Autoclave.

**SECTION – B (35 Marks)**

3. Short answer question (**any four** out of five) : **(4×5=20)**
- a) Bacterial growth curve.
 - b) Pathogenicity of *Staphylococcus aureus*.
 - c) Oral Polio Vaccine.
 - d) Biomedical waste management.
 - e) Classify culture media with example.
4. Long answer question (**any one** out of two) : **(1×15=15)**
- a) Define Nosocomial infection. Describe modes of transmission of Nosocomial infection. Role of a Hospital Infection Control Nurse (HICN).
 - b) Enumerate parasites found in blood smear. Describe Life cycle of Malaria parasite. Write in short about Lab diagnosis of Malaria.
-



First Basic B.Sc. Nursing Examination, Summer 2018
PSYCHOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A and SECTION – B

- Instructions :**
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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) Characteristics of mentally healthy person.
 - b) Types of Attention.
 - c) Principles of Perception.
 - d) Laws of learning.
 - e) Study habits.
 - f) Enlist factors influencing Memory.
2. Long answer question (**any one** out of two) : (1×15=15)
 - a) Define Psychology and explain its scope with reference to Nursing.
 - b) Define Attitude. Explain its functions and discuss the development of Attitude.

P.T.O.



SECTION – B (35 Marks)

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

(4×5=20)

a) Freud's topographic structure of Mind.

b) Degrees of Mental Retardation.

c) Defence Mechanism.

d) Classical conditioning.

e) Primary Motives.

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

(1×15=15)

a) Define personality, enlist its theories and explain any one theory.

b) What is conflict, write its types. Explain classification of conflicts according to goals.



First Basic B.Sc. Nursing Examination, Summer 2018
NURSING FOUNDATION

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A and SECTION – B

- Instructions :**
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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) Nursing as a profession.
 - b) Levels of disease prevention.
 - c) Care of pressure points.
 - d) Role of nurse in infection control.
 - e) Post operative care.
 - f) Non-pharmacological management of pain.
2. Long answer question (**any one** out of two) : **(1×15=15)**
 - a) Explain factors affecting body temperature. **(4)**
Write in detail nursing management of patient with fever. **(6)**
Describe effect of cold application on body. **(5)**
 - b) Explain various methods of oxygen inhalation. **(5)**
Write nursing management of patient with dyspnea. **(6)**
Write observations to be done while giving steam inhalation. **(4)**

P.T.O.



SECTION – B (35 Marks)

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

(4×5=20)

- a) Chest physiotherapy.
- b) Principles of bandaging.
- c) Methods of health assessment.
- d) Principles of Ryles tube feeding.
- e) Care of rubber goods.

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

(1×15=15)

a) Write responsibilities of nurse in admission process.

(5)

Brief importance of records and reporting.

(5)

Describe barriers of effective communication

(5)

b) Describe various factors influencing health.

(5)

Brief about health belief model.

(5)

Write impact of illness on patient and family.

(5)

First Basic B.Sc. Nursing Examination, Summer 2018
NUTRITION AND BIOCHEMISTRY

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)
(Nutrition)

1. Short answer question (**any five** out of six) : (5×5=25)
 - a) Factors affecting calcium absorption.
 - b) Factors affecting Basal metabolic rate.
 - c) Assessment of nutritional status in children.
 - d) Classification of Carbohydrates.
 - e) Balanced diet.
 - f) Food Adulteration.
2. Long answer question (**any two** out of three) : (2×5=10)
 - a) Role of nurse in nutritional program.
 - b) Malnutrition.
 - c) Functions of Proteins.

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

(2×5=10)

- a) ~~Functions of Vitamin D.~~
- b) Regulations of water metabolism.
- c) ~~Methods of Cooking.~~

SECTION – B (30 Marks)
(Biochemistry)

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

(4×5=20)

- a) ~~Factors affecting absorption of Calcium.~~ *function of Iron*
- b) ~~Structure and functions of cell membrane.~~
- c) Write a note on transamination and deamination reactions in protein metabolism.
- d) ~~Functions and deficiency manifestations of Vitamin C.~~
- e) ~~Factors regulating blood sugar level.~~

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

(1×10=10)

- a) ~~Describe in detail about beta oxidation of fatty acid. Add a note on its energetics.~~
- b) Define enzymes. Explain in detail factors affecting enzyme action.

First Basic B.Sc. Nursing Examination, Summer 2018
ANATOMY AND PHYSIOLOGY

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

- Instructions :**
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 - 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 (42 Marks)

(Anatomy)

1. Short answer question (**any six** out of seven) : **(6×5=30)**
 - a) Lymphatic drainage of mammary gland.
 - b) Bronchopulmonary segments.
 - c) Boundaries and contents of femoral triangle.
 - d) Constituents of the spermatic cord.
 - e) Relations of urinary bladder in male.
 - f) Sternocleidomastoid muscle.
 - g) Sulci and gyri on superolateral surface of cerebrum.
2. Long answer question (**any one** out of two) : **(1×12=12)**
 - a) Describe synovial joint under following heads :
 - i) Definition **2**
 - ii) Characteristics **2**
 - iii) Classification with example **6**
 - iv) Applied anatomy **2**

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b) Describe the stomach under following heads :

- | | |
|------------------------------------|---|
| i) External features and relations | 3 |
| ii) Blood supply | 3 |
| iii) Lymphatic Drainage | 3 |
| iv) Applied Anatomy | 3 |

SECTION – B (33 Marks)

(Physiology)

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

- Enumerate the properties of Skeletal muscle and describe any one in detail.
- Compare and contrast between cortical and juxtaglomerular nephron.
- Classify nerve fibers on the basis of conduction velocity and add a note on saltatory conduction.
- Draw a well labelled diagram of ECG in lead II and give the normal values of all the intervals.
- Describe the functions of hypothalamus.

4. Long answer question : (1×13=13)

- Define synapse, classify it and enumerate its properties. 6
- Describe the mechanism of synaptic transmission. 7

OR

Long answer question : (1×13=13)

- What is the physiological basis of Blood group ? Name the various Blood groups 6
- What are the hazards of Blood transfusion ? 7