



62502

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

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.
  - 5) Draw diagrams **wherever** necessary.
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  - 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) Functions and absorption of fats.
  - b) Principles of serving food.
  - c) Body Mass Index.
  - d) Kwashiorkor.
  - e) Fluid Diet.
  - f) Over hydration.
2. Long answer questions (**any two** out of three) : (2×5=10)
  - a) Vitamin 'A' deficiency program.
  - b) Write in brief about Energy.
  - c) Importance of protein in children.

P.T.O.



(2×5=10)

3. Short answer questions (**any two** out of three) :
- a) Functions and deficiencies of Vitamin 'C'.
  - b) Role of nurse in nutrition education.
  - c) Digestion, absorption, storage and metabolism of carbohydrates.

**SECTION – B (30 marks)**  
**(Biochemistry)**

(4×5=20)

4. Short answer questions (**any four** out of five) :
- a) Structure and functions of Cell Membrane.
  - b) Functions and deficiency manifestations of Vitamin D.
  - c) Role of buffers in maintaining acid base balance.
  - d) Functions of cholesterol.
  - e) Competitive inhibition of enzymes.

(1×10=10)

5. Long answer questions (**any one** out of two) :
- a) Describe Pentose Phosphate Pathway of Glucose oxidation. What is its Significance ?
  - b) Describe steps of Urea cycle.
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62501

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

Total Duration : Section A + B = 3 Hours

Total Marks : 75

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**SECTION – A (42 Marks)**

1. Short answer question (**any six** out of seven) : (6×5=30)
  - a) Blood supply of long bone.
  - b) Sternocleidomastoid muscle.
  - c) Boundaries and contents of Popliteal fossa.
  - d) Bronchopulmonary segments.
  - e) Porta hepatis.
  - f) Structure of uterus.
  - g) Stomach bed.
2. Long answer question (**any one** out of two) : (1×12=12)
  - a) Describe shoulder joint under following heads :
    - i) Type and Articular surfaces. 3
    - ii) Ligaments. 3
    - iii) Movements and muscles producing movements. 3
    - iv) Applied Anatomy. 3
  - b) Describe the parotid gland under the following heads :
    - i) Gross structure and relations. 4
    - ii) Blood supply. 3
    - iii) Nerve supply. 3
    - iv) Applied Anatomy. 2

P.T.O.



## SECTION – B (33 Marks)

3. Short answer question (any four out of five) : (4×5=20)
- a) Write a note on structure and functions of Neuron. Draw a neat labelled diagram of Neuron.
  - b) Note on Glomerular filtration rate.
  - c) Note on Rh blood grouping.
  - d) Give Functions of Placenta.
  - e) Note on Sarcomere.

4. Long answer question : (1×13=13)
- a) Describe composition and functions of blood. Add a note on Anaemia. 6
  - b) Enumerate functions of gastric juice. Describe phases of gastric secretion. 7

OR

- Long answer question : (1×13=13)
- c) Write a note on conduction system of heart. Explain with the help of a neat diagram. 6
  - d) What is Blood Pressure ? Enumerate the factors affecting blood pressure. Add a note on Baroreceptor mechanism of blood pressure regulation. 7



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62501

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

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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) 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

P.T.O.



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

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62503

**First Basic B.Sc. Nursing Examination, Winter 2018**  
**NURSING FOUNDATION**

Total Duration : Section A + B = 3 Hours

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**SECTION – A & SECTION – B**

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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)~~ Roles and functions of a Nurse.
  - ~~c)~~ Factors affecting Body temperature.
  - ~~d)~~ Methods of Physical Examination.
  - e) Principles of Body mechanics.
  - ~~f)~~ Comfort devices.
2. Long answer question (**any one** out of two) : (1×15=15)
  - a) i) Enumerate types of Asepsis. 2
  - ~~ii)~~ Explain Hospital acquired infection. 4
  - iii) Discuss role of Nurse in infection control of hospital. 9
  - b) i) Purposes of Drug administration. 2
  - ii) Explain principles of administration of medication. 4
  - iii) Discuss roles and responsibilities of a Nurse during administration of medication. 9

P.T.O.

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SECTION – B (35 Marks)

(4×5=20)

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

- ☒ a) Code of Ethics in nursing.
- ☒ b) Methods of Effective communication.
- ☒ c) Purposes of Recording and Reporting.
- ☒ d) Maslow's hierarchy of needs.
- ☒ e) Care of rubber goods.

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

- a) i) Define nursing process.  
ii) Explain steps of nursing process.  
iii) Write any two nursing diagnosis with nursing care plan.
- b) i) Define Theory.  
ii) Discuss metaparadigms of nursing.  
iii) Explain Orem's nursing theory.

(1×15=15)

2

4

9

2

4

9





**First Basic B.Sc. Nursing Examination, Winter 2018**  
**PSYCHOLOGY**

Total Duration : Section A + B = 3 Hours

Total Marks : 75

**SECTION – A and SECTION – B**

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  - 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) What is Self Actualization ? ✓
  - b) What are the characteristics of Emotion ? ✓
  - c) Explain Conflict Resolution
  - d) What is Hereditary and Environment ?
  - e) What are anxiety disorders ? ✓
  - f) Explain Memory Training. ✓
2. Long answer question (**any one** out of two) : (1×15=15)
  - a) i) Define Perception. 2
  - ii) Enlist the principles of Perception. 5
  - iii) What are the Factors affecting Perception ? 8
  - b) i) Define Learning. 2
  - ii) Explain Types of Learning. 5
  - iii) Explain any one Theory of Learning. 8



## SECTION – B (35 Marks)

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

(4×5=20)

- a) Explain Maslow's Theory.
- b) Explain how to develop listening skill.
- c) Explain Mental age and IQ.
- d) Enlist and explain 2 Branches of Psychology.
- e) Explain the type theories of Personality.

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

(1×15=15)

- a) i) Define Attitude. ✓
- ii) Explain Factors affecting Attitude.
- iii) Explain Relevance of Attitude to Nurses.
- b) i) Define Stress and Stressor.
- ii) Explain the cycle of stress.
- iii) Explain its effect on health.

2  
5  
8  
5  
5  
5



## First Basic B.Sc. Nursing Examination, Winter 2018

**MICROBIOLOGY**

Total Duration : Section A+B = 3 Hours

Total Marks : 75

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  - 7) Use a common answerbook for **all** Sections.

## SECTION – A (40 Marks)

1. Short answer question (**any five** out of six) : (5×5=25)
  - a) Life cycle of malaria parasite.
  - b) Write a short answer on modes of transmission of Infection.
  - c) Oral polio vaccine.
  - d) Laboratory diagnosis of Syphilis.
  - e) Write short answer on Candidiasis.
  - f) Describe Gram's Staining procedure.
2. Long answer question (**any one** out of two) : (1×15=15)
  - a) Write morphology, cultural characteristics, pathogenicity and laboratory diagnosis of Mycobacterium tuberculosis.
  - b) Define Sterilization. Enlist different methods of sterilization. Write in detail about autoclave.



## SECTION – II (35 Marks)

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

(4×5=20)

- a) Bacterial growth curve.
- b) Classify culture media with example.
- c) Differentiate between Gram Positive and Gram Negative Bacteria.
- d) Write a short answer on universal safety precautions.
- e) Write a short answer on laboratory diagnosis of Typhoid.

4. 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) What is infection ? Define Nosocomial infection. Enlist organisms causing nosocomial infection. Describe in detail role of Hospital Infection Control Nurse (HICN).



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

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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)

F.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)
-



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  - 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.

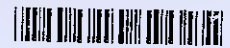
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2. Long answer question (**any two** out of three) :

(2×5=10)

- a) Role of nurse in nutritional program.
- b) Malnutrition.
- c) Functions of Proteins.

P.T.O.



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. — *fun g ion*
- 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.
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PSYCHOLOGY

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

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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.

P.T.O.



## 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.
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