



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 :
- 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) 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.

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

(2×5=10)

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

(4×5=20)

- 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.

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

(1×10=10)

- a) Describe Pentose Phosphate Pathway of Glucose oxidation. What is its Significance ?
 - b) Describe steps of Urea cycle.
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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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 - 7) **Use** a common answerbook for **all** Sections.

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

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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



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

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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.
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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

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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



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

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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

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SECTION - B (35 Marks)

(4x5=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.~~

(1x15=15)

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

- a) i) Define nursing process. 2
- ii) Explain steps of nursing process. 4
- iii) Write any two nursing diagnosis with nursing care plan. 9
- b) i) Define Theory. 2
- ii) Discuss metaparadigms of nursing. 4
- iii) Explain Orem's nursing theory. 9



First Basic B.Sc. Nursing Examination, Winter 2018

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) 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. ✓ 2
 - ii) Explain Factors affecting Attitude. 5
 - iii) Explain Relevance of Attitude to Nurses. 8
 - b) i) Define Stress and Stressor. 5
 - ii) Explain the cycle of stress. 5
 - iii) Explain its effect on health. 5



First Basic B.Sc. Nursing Examination, Winter 2018

MICROBIOLOGY

Total Duration : Section A+B = 3 Hours

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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 – B (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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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)



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

(5×5=25)

C6H12O6

(2×5=10)

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. — *fact 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.
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First Basic B.Sc. Nursing Examination, Summer 2018
PSYCHOLOGY

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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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MICROBIOLOGY

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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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