



62501

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 3
 - ii) Formation 3
 - iii) Contents 3
 - iv) Function and Applied anatomy. 3

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- 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)
- Rh incompatibility.
 - Puberty.
 - Composition and Functions of Cerebrospinal Fluid (CSF).
 - Actions of Thyroid hormone. Add a note on Hyperthyroidism.
 - Explain the mechanism of muscle contraction.
4. Long answer question : (1×13=13)
- Describe the structure, synthesis and functions of Haemoglobin. Add a note on Anaemia. 6
 - Define Cardiac Output. Explain the factors regulating Cardiac Output. 7

OR

- Long answer question : (1×13=13)
- Describe the Composition and Functions of Pancreatic juice. 6
 - Describe transport of Oxygen from lungs to the tissues. Draw a neat labelled diagram of Oxygen-Haemoglobin dissociation curve. 7



62502

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.

62502



3. Short answer questions (**any two** out of three) : (2×5=10)
- a) Prevention of Food Adulteration Act, 1954.
 - b) Define balanced diet and write the steps in planning balanced diet.
 - c) Define BMR and write the factors affecting energy requirement.

SECTION – B (30 Marks)

(Biochemistry)

4. Short answer questions (**any four** out of five) : (4×5=20)
- a) Write any five functions of cholesterol.
 - b) Draw urea cycle mentioning enzymes, coenzymes, substrate and product formed in the cycle.
 - c) Factors regulating blood calcium level.
 - d) Diagnostic and clinical significance of enzymes.
 - e) What are blood buffers ? Explain their role in maintaining blood pH.
5. Long answer questions (**any one** out of two) : (1×10=10)
- a) Define and classify vitamins. Write sources, daily requirement, functions and deficiency manifestation of vitamin A.
 - b) Define carbohydrate. Explain glycolysis in detail with its energetics.
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62503

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

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A & SECTION – B

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 - 3) **All questions are compulsory.**
 - 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. 3
 - ii) What are the common sites of pressure sores ? 4
 - iii) How will you prevent pressure sores in an unconscious patient ? 4
 - iv) Write the scientific principles involved in back care. 4
 - b) i) Define Blood Pressure. 2
 - ii) Describe the variations in Blood Pressure. 4
 - iii) Enlist the factors causing variations in Blood Pressure. 4
 - iv) Write the scientific principles related to Blood Pressure. 5
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62504

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

Total Duration : Section A + B = 3 Hours

Total Marks : 75

SECTION – A and 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 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.



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 ?
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62505

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

Total Duration : Section A + B = 3 Hours

Total Marks : 75

Section – A & Section – B

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- 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) 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.



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.