



62502

**First Basic B.Sc. Nursing Examination, Summer 2012**  
**NUTRITION AND BIOCHEMISTRY**

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

Section B & C Marks: 60

**SECTION – B & SECTION – C**

- Instructions:**
- 1) **All questions are compulsory.**
  - 2) **The number to the right indicates full marks.**
  - 3) **Draw diagrams wherever necessary.**
  - 4) **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.**

**SECTION – B**

**Nutrition**

2. Answer the following (any four out of five) : (4×5=20)
  - a) Factors affecting food and nutrition.
  - b) Classification of protein with its example.
  - c) Basal metabolic rate.
  - d) Deficiencies of vitamin C.
  - e) Principles of cooking.
3. Define carbohydrate its classification with example and functions in detail. (1×7=7)
4. Enlist the nutritional programmes and role of nurse in nutritional programmes in detail. (1×8=8)

**SECTION – C**

**Biochemistry**

5. Answer the following (any three out of four) : (3×5=15)
  - a) Write notes on any two specialized proteins from the following-collagen, keratin, elastin and myosin.
  - b) Write a note on biochemical role of vitamin D.
  - c) Classify enzymes.
  - d) Write a note on transport mechanisms in the cell.
6. Long answer question : (1×10=10)
  - a) How is blood glucose regulated in the body ?

OR

  - b) Write a note on the urea cycle.



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SECTION-C  
(Biochemistry)

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

(3×5=15)

- a) Nitrogen balance.
- b) Factors regulating plasma calcium level.
- c) Digestion and absorption of lipids.
- d) Describe the sources, requirements and functions of Vitamin 'A'.

6. Long Answer Question :

(1×10=10)

- a) Describe tricarboxylic acid cycle with energetics. Explain the amphibolic nature of same.

OR

- b) Define protein, write classification of protein in detail with examples.



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**First Basic B.Sc. Nursing Examination, Summer 2012  
MICROBIOLOGY**

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

Section B & C Marks: 60

**SECTION – B & SECTION – C**

- Instructions:**
- 1) All questions are **compulsory**.
  - 2) The number to the **right** indicates **full marks**.
  - 3) **Draw diagrams** wherever **necessary**.
  - 4) 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.

**SECTION – B**

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

(5×3=15) - 3

- a) Draw a neat diagram of ova of *Trichuris trichiura*.
- b) Name 3 DNA and 3 RNA viruses.
- c) Enumerate Enzymes and Toxins produced by *S. pyogenes* and their role.
- d) Write working concentrations of various disinfectants used for
  - i) Skin preparation,
  - ii) Floor cleaning,
  - iii) Endoscope sterilization
- e) Draw a neat diagram of embryonated egg, label different parts and viruses inoculated in them.
- f) Name opportunistic fungal infections.

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

(3×5=15)

- a) Differences between Amoebic and Bacillary dysentery.
- b) Classify medias with examples.
- c) Biomedical waste management.
- d) Naegler's reaction.

**SECTION – C**

Answer the following (**any two** out of Q. 4, Q. 5 and Q. 6) :

(2×15=30)

4. Describe the structure, pathogenicity and lab diagnosis of human immunodeficiency virus.

(3+4+8)

5. Define and give examples of heterophile agglutination.

Explain prozone phenomenon.

Add a note on Widal test.

4

3 - 3

8

6. Describe morphology, life cycle and lab diagnosis of *Ancylostoma duodenale*.

(3+6+6)



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**First Basic B.Sc. Nursing Examination, Summer 2013**  
**MICROBIOLOGY**

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

Section B & C Marks: 60

**SECTION – B & SECTION – C**

- Instructions:**
- 1) **All questions are compulsory.**
  - 2) **The number to the right indicates full marks.**
  - 3) **Draw diagrams wherever necessary.**
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**SECTION – B**  
**(SAQ)**

**(30 Marks)**

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

**(5×3=15)**

- a) Contributions of Robert Koch.
- b) Write 03 disinfectants commonly used in hospitals with their recommended concentrations.
- c) Write 03 differences between active and passive immunity.
- d) VDRL test.
- e) Enumerate methods for cultivation of viruses.
- f) Laboratory diagnosis of Candida albicans.

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

**(3×5=15)**

- a) Draw diagram of HIV (Human Immuno-deficiency Virus). Mention its modes of transmission.
- b) Name the Immunoglobulin classes. Write in brief about Ig M.
- c) Classify Mycobacteria. Write about Mantoux test.
- d) Define Nosocomial Infection. Write the sources of Nosocomial Infections.

P.T.O.



Jessa

62503



**First Basic B.Sc. Nursing Examination, Summer 2012**  
**NURSING FOUNDATION**

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

Section B & C Marks: 60

**SECTION – B & SECTION – C**

- Instructions :**
- 1) **All questions are compulsory.**
  - 2) **The number to the right indicates full marks.**
  - 3) **Draw diagrams wherever necessary.**
  - 4) **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.**

**SECTION – B**

2. Answer the following (**any five** out of six) : **(5×3=15)**
- a) Enlist factors influencing health **3**
  - b) Impact of illness on client **3**
  - c) Characteristics of profession **3**
  - d) LAMA discharge **3**
  - e) Empathy **3**
  - f) Importance of critical thinking in nursing practice. **3**
3. Answer the following (**any three** out of four) : **(3×5=15)**
- a) List different types of immunity and importance of immunity as a primary defence mechanism. **5**
  - b) List types of patient beds and describe importance of operation bed. **5**
  - c) Nurses role in promotion of rest and sleep in a hospitalized patient. **5**
  - d) Factors affecting nutrition of patients. **5**

P.T.O.



SECTION – C

4. Answer the following (any two LAQ out of three) : (2×15=30)
- A) a) Define Hyperthermia. 2
  - b) Discuss physiology of thermoregulation. 5
  - c) Write Nursing care plan on two priority diagnoses for a client with Hyperthermia. 8
  - B) a) Define Immobility. 2
  - b) Write principles of Body mechanics. 5
  - c) Discuss importance of body mechanics for nurses while caring for clients. 8
  - C) a) Define Basic life support. 2
  - b) List the steps of CPR. 5
  - c) Write a nursing care plan for first 24 hours for a client who has undergone a CPR on priority diagnoses. 8
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