

MANIPAL UNIVERSITY**FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – SEPTEMBER 2014****SUBJECT: BSN 101 – ANATOMY AND PHYSIOLOGY (ESSAY)**

Monday, September 15, 2014

Time: 10:30 – 13:00 Hrs.

Max. Marks: 45

Answer Section 'A' and Section 'B' in two separate answer books.**SECTION "A": ANATOMY: 22 MARKS****1. Write briefly on:**

- 1A. Liver
- 1B. Urinary bladder
- 1C. Prostate
- 1D. Right lung

(3 marks × 4 = 12 marks)

2. Write short notes on each of the following:

- 2A. Lymph node
- 2B. Uterine tube
- 2C. Pancreas
- 2D. Middle ear
- 2E. Enumerate the parts of respiratory system

(2 marks × 5 = 10 marks)

SECTION "B": PHYSIOLOGY: 23 MARKS**3. Short answer questions:**

- 3A. Name the Baroreceptors. Write briefly about its location and significance.
- 3B. Mention any three functions of hypothalamus.
- 3C. Mention any three features of hypothyroidism.

(3 marks × 3 = 9 marks)

4. Short answer questions:

- 4A. Define Landsteiner's law.
- 4B. Draw a labeled diagram of a sarcomere.
- 4C. Mention two functions of bile salts
- 4D. Define tidal volume and residual volume. Give normal values.
- 4E. List two differences between cortical nephrons and juxta medullary nephron
- 4F. What is myopia and hypermetropia?
- 4G. Name the hormones of posterior pituitary and give one action of each.

(2 marks × 7 = 14 marks)

MANIPAL UNIVERSITY**FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – SEPTEMBER 2014****SUBJECT: BSN 103 – NURSING FOUNDATIONS (ESSAY)**

Tuesday, September 16, 2014

Time: 10:15 – 13:00 Hrs.

Max. Marks: 60

✍ Answer ALL the questions.

1A. List the principles of nasogastric tube insertion.

1B. Explain the nurses' responsibility in administering nasogastric tube feeding

(3+10 = 13 marks)

2A. Define the term immunity

2B. Explain the different types of immunity

(2+10 = 12 marks)

3. **Write short notes on the following:**

3A. Criteria of a profession

3B. Elements of communication

3C. Factors affecting body temperature

3D. Techniques of back massage

3E. Rights of medication administration

3F. Practice guidelines for bandaging

3G. Types of fever

(5 marks × 7 = 35 marks)

MANIPAL UNIVERSITY

FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – SEPTEMBER 2014

SUBJECT: BSN 106 – MICROBIOLOGY (ESSAY)

Friday, September 19, 2014

Time: 10:30 – 13:00 Hrs.

Max. Marks: 45

✍ Answer ALL the questions.

1. Write short answers on:

- 1A. List any TWO methods to demonstrate bacterial flagella
- 1B. Mention any TWO differences between Exotoxin and Endotoxin
- 1C. Pathogenesis of gas gangrene
- 1D. BCG vaccine
- 1E. Laboratory diagnosis of *Enterobius vermicularis* infection
- 1F. Pathogenesis of Polio
- 1G. Mention any TWO differences between Active and Passive immunity
- 1H. Name TWO vaccine preventable viral diseases
- 1I. Name TWO diagnostic techniques for Dermatophytosis
- 1J. WIDAL test
- 1K. Name TWO enriched culture media
- 1L. Any TWO differences between *Taenia solium* and *Taenia saginata*
- 1M. Name TWO viral markers in Hepatitis B infection
- 1N. Two uses of ELISA
- 1O. Laboratory diagnosis of Candidiasis

(2 marks × 15 = 30 marks)

2. Write short answers on:

- 2A. Gram stain
- 2B. Write a note on Autoclave with respect to Principle, Sterilization conditions & uses
- 2C. Diagnosis of Syphilis
- 2D. Life cycle of *Plasmodium falciparum*
- 2E. Type IV hypersensitivity

(3 marks × 5 = 15 marks)

MANIPAL UNIVERSITY

FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – SEPTEMBER 2014

SUBJECT: BSN 105 – PSYCHOLOGY (ESSAY)

Monday, September 22, 2014

Time: 10:30 – 13:00 Hrs.

Max. Marks: 45

Answer ALL the questions.

1. **Write very short notes on:**

- 1A. Clinical Psychology
- 1B. Role of heredity and environment on personality
- 1C. Middle ear
- 1D. Principle of figure ground relationship
- 1E. Problem solving
- 1F. Maternal motive
- 1G. Operant conditioning
- 1H. Define personality
- 1I. Trace decay theory
- 1J. Mechanical aptitude
- 1K. Define attitude
- 1L. Rorshach Inkblot test
- 1M. Reasons for psychological assessment
- 1N. Psychological aspects of nursing
- 1O. Defence mechanisms

(2 marks × 15 = 30 marks)

2. **Short Answer Question:**

- 2A. Observational method
- 2B. Characteristics of emotions
- 2C. Guilford's model of intelligence
- 2D. Insightful learning
- 2E. Theories of forgetting

(3 marks × 5 = 15 marks)

MANIPAL UNIVERSITY**FIRST YEAR B.Sc. NURSING DEGREE EXAMINATION – SEPTEMBER 2014****SUBJECT: BSN 102 – NUTRITION AND BIOCHEMISTRY (ESSAY)**

Wednesday, September 24, 2014

Time: 10:30 – 13:00 Hrs.

Max. Marks: 45

Answer Section – ‘A’ and Section – ‘B’ in two separate answer books.**SECTION – A : NUTRITION : 25 MARKS****1. Write short notes on the following:**

- 1A. Principles of menu planning (Any THREE)
- 1B. Functions of Vitamin D
- 1C. Food standards
- 1D. Any three principles of cooking
- 1E. Functions of Iron

(3 marks × 5 = 15 marks)

2. Write short notes on the following:

- 2A. Functions of FAO (Food and Agriculture Organization)
- 2B. Advantages of anthropometric measurements
- 2C. Significance of food fortification
- 2D. Methods of measurement of energy
- 2E. Foods to be avoided by the patient with peptic ulcer

(2 marks × 5 = 10 marks)

SECTION – B : BIOCHEMISTRY : 20 MARKS**3. Short answer questions.**

- 3A. What is Glycated Hb? What is its significance?
- 3B. Name any two diagnostic enzymes and mention their role in diagnosis.
- 3C. Name the proteolytic enzymes of the gut.
- 3D. Name the coenzymes of Folic acid & Riboflavin. Write one reaction for each

(2 marks × 4 = 8 marks)

4. Short answer questions:

- 4A. Classify proteins based on chemical composition
- 4B. Name three trace elements and give one function each
- 4C. Describe the liver function tests to assess:
 - i) Conjugating capacity of liver
 - ii) Synthetic capacity of liver
- 4D. Classify lipoproteins. Add a note on their functions

(3 marks × 4 = 12 marks)