**B.Sc.(N) [1st Year]**

**BF/2016/03**

**Microbiology**

 [New Scheme w.e.f. 2006]

**Time : 3 Hours Max Marks : 75**

*Note:* **Attempt all questions***.*

1. (i) (a) Define Sterilisation. [3]

(b) Enumerate the different methods of Sterilisation. [8]

(c) Discuss the principles of Autoclave. [4]

**OR**

 (ii) (a) General guidelines for collection of samples for Microbiological Testing. [5]

 (b) Collection of Blood for Culture. [5]

 (c) Collection, transport and storage of Urine samples for culture. [5]

2. Regarding Dengue.

 (a) What is the source of Infection ? [3]

 (b) What is the Clinical Presentation ? [4]

 (c) Laboratory Diagnosis. [8]

3. (a) Laboratory diagnosis of Cholera. [5]

 (b) Opportunistic Mycosis. [5]

4. (a) Enumerate the different Culture Media with one example each. [5]

(b) Widal Test. [5]

5. **Write Short Notes on any FIVE :** [5x5=25]

(a) Standard Precautions.

 (b) Primary and Secondary Humeral Immune Response.

 (c) Mycobacterium Tuberculosis.

 (d) Germ Tube Test.

 (e) Classification of Fungi.

 (f) Testing of Disinfectants.

 (g) Water Borne Diseases.

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**B.Sc.(N) [1st Year]**

**BF/2016/03**

**Nutrition & Biochemistry**

[New Scheme w.e.f. 2006]

**Time : 3 Hours Max Marks : 75**

### Note: Attempt all the questions.

 **USE SEPARATE ANSWER SHEET FOR EACH SECTION.**

##  **SECTION-A** **[45 Marks]**

## **[NUTRITION]**

1. (a) Define unit of energy. [2]

 (b) What is dehydration. [3]

 (c) Define RDA. [5]

2. (a) Explain four functions of calcium. [2]

 (b) Describe the deficiency diseases of calcium. [3]

 (c) Describe the sources and requirements of calcium. [5]

3. (a) Define Weaning. [2]

 (b) Describe the six advantages of breast feeding. [3]

 (c) Plan one day diet for a Nursing/ Lectating Mother. [5]

4. **Write Short Notes on any THREE of the following :** [3x5=15]

 (a) Vitamin A supplementation (b) Glycemic Index

(c) Infantile Scurvey (d) Substitute for Non- Vegetarians foods

(e) Discuss the methods of Nutritional Assessment.

## **SECTION-B** **[30 Marks]**

**[BIOCHEMISTRY]**

1. (i) (a) Explain briefly about Polysaccharides. [5]

(b) Discuss briefly Biosynthesis and regulation of Vitamin 'D'. [5]

**OR**

 (ii) (a) Explain briefly Pentose Phosphate Pathway. [5]

 (b) Describe briefly regulation of Blood Glucose Level. [5]

2. (a) Discuss the functions of Steroid Hormones. [3]

 (b) Explain briefly Co- enzymes. [2]

3. **Write Short Notes on any FIVE of the following** : [3x5=15]

 (a) Blood Glucose Test. (b) Transport of Lipids.

 (c) Types of Proteins. (d) Properties of Vitamin 'K'.

(e) Heme and Chlorophyll. (f) HLS- Typing.

(g) Chromatography.

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**B.Sc.(N) [1st Year]**

**BF/2016/03**

**Anatomy & Physiology**

[New Scheme w.e.f. 2006]

**Time : 3 Hours Max Marks : 75**

***Note****:*  **USE SEPARATE ANSWER SHEET FOR EACH SECTION.**

##  **SECTION-A** **[37 Marks]**

## **[ANATOMY]**

*Note: Attempt all the questions.*

1. (i) (a) Describe the structure of Thyroid Gland with the help of diagram. [2]

 (b) Illustrate the blood supply of Thyroid Gland. [4]

 (c) Explain hormones of Thyroid Gland. [4]

 **OR**

 (ii) (a) Name the organs of Digestive System. [2]

 (b) Explain blood supply and function of Stomach. [4]

 (c) Write difference between Small Intestine and Large Intestine. [4]

2. (a) Describe the parts of Respiratory System. [2]

 (b) Describe the structure of Lungs. [4]

 (c) Enlist the muscles of Respiration. [4]

3. **Describe in brief on any TWO of the following :** [2½x2=5]

 (a) SA Node.

 (b) Larynx.

 (c) Gross Anatomy of Spleen.

4. **Write Short Notes on any FOUR of the following :**  [3x4=12]

 (a) Abduction at the Shoulder Joint. (b) Arch of Aorta.

(c) Lymph Node. (d) Ligaments of Uterus.

(e) Umblical Cord. (f) Spermatic Cord.

##  **SECTION-B** **[38 Marks]**

##  **[PHYSIOLOGY]**

1. (i) (a) Define C.S.F. [2]

 (b) Describe the composition and circulation of Cerebro Spinal Fluid. [4]

 (c) Describe functions of C.S.F. [4]

**OR**

 (ii) (a) Define Immunity. [2]

 (b) Give classification of Immunity. [4]

 (c) Differentiate between Active and Passive Immunity. [4]

2. (a) Define Blood. [2]

 (b) Describe Extrinsic mechanism of Blood Coagulation. [4]

 (c) Explain functions of Haemoglobin. [4]

3. **Describe in brief any TWO of the following** : [3x2=6]

 (a) RH Incompatibility.

 (b) Functions of Male Reproductive System.

 (c) Vertebral Column.

4. **Write Short Notes on any FOUR of the following** : [3x4=12]

 (a) Portal Vein.

 (b) Cerebellum.

 (c) Mechanism of Hearing.

 (d) White Blood Cells.

 (e) Menopause.

 (f) Functions of Overy.

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**B.Sc.(N) [1st Year]**

**BF/2016/03**

#### Psychology

[New Scheme w.e.f. 2006]

**Time : 3 Hours Max Marks : 75**

*Note: Attempt all questions.*

1. (i) (a) Explain the Maslow's theory of motivation. [4]

 (b) Describe Freud's theory of personality. [8]

 (c) Discuss the importance of learning motives by you as a nurse. [3]

**OR**

 (ii) (a) Describe Erick Erickson's theory of Personality Development. [8]

 (b) Explain the Psychosocial development during old age. [7]

2. (a) Define Frustration. [1]

(b) Explain the various sources of Frustration. [4]

(c) Explain any five defense mechanisms with examples. [10]

3. (a) Explain the concept of Mental Hygiene and Mental Health. [5]

 (b) Enumerate the warning signs of Poor Mental Health. [5]

4. (a) Describe the internal determinants of Attention. [6]

 (b) Explain the errors of perception. [4]

5. **Write Short Notes on any FIVE of the followings** : [5x5=25]

 (a) Importance of Learning Psychology for Nurses.

 (b) Body Mind relationship- Modulation process in Health & Illness.

 (c) Methods to make Learning effective.

 (d) Factors affecting Development of Attitudes.

 (e) Role of Nurse in Psychological Assessment.

 (f) Types of Conflict. (g) Theories of Intelligence.

--------------------**B.Sc.(N) [1st Year]**

**BF/2016/03**

**Nursing Foundations**

[New Scheme w.e.f. 2006]

**Time : 3 Hours Max Marks : 75**

*Note: Attempt all questions.*

1. (a) Define Communication. [2]

(b) Enlist factors influencing Communication. [4]

(c) Barriers of Effective Communication. [4]

(d) Methods of Recording. [5]

**OR**

 (ii) (a) Define Vital Signs. [2]

(b) Factors affecting Body Temperature. [4]

(c) Sites of Observing Pulse. [4]

(d) Alteration in Blood Pressure and its Nursing responsibilities. [5]

**2. Mr. Ranvir is hospitalized in an unconscious state. Answer under following heading:**

(a) Enlist the local complications of bad oral hygiene. [2]

 (b) Enlist the pressure points in supine & lateral position. [4]

 (c) Explain the general principle to be kept in mind while giving nasogastric feeding. [4]

 (d) Nursing responsibilities in blood transfusion. [5]

3. **Explain the Nursing Interventions for the following** :

(a) While giving Steam inhalation. [5]

 (b) While giving Bowel wash. [5]

4. **Describe the responsibilities of nurses for the following** :

 (a) When patient having Dyspnoea. [5]

 (b) When patient having Hyperthermia. [5]

5. **Write Short Notes on any FIVE of the following :** [5x5=25]

(a) Orem's Self Care Theory.

(b) Health Care Teams.

(c) Components of Nursing Diagnosis.

(d) First Aid in Epistaxis.

(e) Hazards of Immobility.

(f) Methods of Physical Examination.

(g) Pain Management.

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**B.Sc.(N) [1st Year]**

**BF/2016/03**

# English

[New Scheme w.e.f. 2006]

**Time : 3 Hours Max Marks : 75**

Note : Attempt all the questions.

1. **Write an Essay in about 300 words on any ONE of the following:** [15]

 **(**a) An important day in my life. (b) Good Manners.

 (c) My favorite hobbies. (d) All that glitters is not gold.

2. Write a letter to your elder sister explaining her about your first clinical duty ? [10]

3. Describe anecdotal record with the help of examples ? [10]

4. **Make a précis of the following passage and suggest a suitable title :** [10]

A traveler whose exclusive purpose is to reach a certain destination in the minimum of time has at once lost half the joy of his journey. He becomes preoccupied with the thought of his goal and this preoccupation makes him intolerant of the friendly advances of those he meets by the way and blind to the ever changing panorama along his route. He resents delay, find every inconvenience irksome and frets and fumes at every hitch that threatens to upset his carefully laid plans. There is, it is true, a certain satisfaction in being whirled in comfort through space at breathtaking speed.

5. **Correct the following sentences :** [5]

 (a) The more you climb, the cool you feel.

 (b) The patient is unconscious since last week.

 (c) I done it with lots of care.

 (d) Gandhiji was one of the great leaders of India.

 (e) He copy all the answers.

6. **Fill in the blanks with Correct Preposition** : [5]

 (a) Humpty Dumpty sat \_\_\_\_\_\_\_\_\_\_\_\_\_ the wall.

 (b) Books are \_\_\_\_\_\_\_\_\_\_\_\_ the table.

 (c) Smoking is injurious \_\_\_\_\_\_\_\_\_\_\_\_\_\_ health.

 (d) I parked my car \_\_\_\_\_\_\_\_\_\_\_\_\_ the bus stand.

 (e) Go away \_\_\_\_\_\_\_\_\_\_\_\_\_ here.

7. **Substitute One word for each of the following** : [5]

 (a) Of cancerous growth (b) Wasting of an organ

 (c) An agent that neutralizes acidity (d) Pertaining to law

(e) Liked by a lot of people

8. **Give the Antonyms of the following**: [5]

 (a) Woman (b) Rich (c) New (d) Question (e) Enemy

9. **Use the following Idioms/Phrases into sentences** : [5]

 (a) Beast of prey (b) Bed of thorns (c) Crocodile tears

(d) Aware of (e) Break into

10. **Transcribe the following words into Phonetic Symbols** : [5]

 (a) Must (b) Car (c) Should (d) Night (e) At

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