

# B.Sc.(N) [1<sup>st</sup> Year]

BF/2009/06

## Microbiology

[New Scheme w.e.f. 2006]

**M.M. : 75**

**Time : 3 Hours.**

**Note: Attempt any FIVE questions.**

1. **Write short notes on:**
  - a. Contributions of Louis Pasteur. [7<sup>1</sup>/<sub>2</sub>]
  - b. Differentiate between Prokaryotes and Eukaryotes. [7<sup>1</sup>/<sub>2</sub>]
  
2. **Write short notes on:**
  - a. Hanging drop preparation. [7<sup>1</sup>/<sub>2</sub>]
  - b. Selective media. [7<sup>1</sup>/<sub>2</sub>]
  
3. **Write short notes on:**
  - a. Steam sterilizer. [7<sup>1</sup>/<sub>2</sub>]
  - b. Disinfection. [7<sup>1</sup>/<sub>2</sub>]
  
4. Discuss the laboratory diagnosis of Malaria. [15]
  
5. **Write short notes on:**
  - a. Type IV hypersensitivity. [7<sup>1</sup>/<sub>2</sub>]
  - b. Laboratory diagnosis of Mycoplasma. [7<sup>1</sup>/<sub>2</sub>]
  
6. **Write short notes on:**
  - a. TPHA test for Syphilis. [7<sup>1</sup>/<sub>2</sub>]
  - b. DPT. [7<sup>1</sup>/<sub>2</sub>]

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# B.Sc.(N) [1<sup>st</sup> Year]

BF/2009/06

## Nutrition & Biochemistry

[New Scheme w.e.f. 2006]

M.M. : 75

Time : 3 Hours.

*Note: Attempt all questions*

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

### **SECTION-A** **[NUTRITION]**

**[45 Marks]**

1.    a.    Discuss the Digestion, Absorption and metabolism of Fat in the body. [3]  
      b.    What are the different methods of assessing nutritional status. [3]
2.    a.    What is Hypervitaminosis. [3]  
      b.    Write a short note on food adulteration. [3]
3.    a.    What are the different elements of Balanced diet? [3]  
      b.    Discuss the role of Fiber in diet. [3]
4.    a.    Write a short note on Artificial sweetness. [3]  
      b.    What is the difference between Kwashiorkor and Marasmus. [3]
5.    a.    Write a short note on Dehydration and Water intoxication. [3]  
      b.    Deficiency diseases of Calcium. [3]
6.    a.    Write a short note on ICDS(Integrated Child Development Scheme). [3]  
      b.    Discuss the dietary management during Diabetes Mellitus. [3]
7.    **Fill in the blanks:** [9]
  - a.    Name any one unsaturated fatty acid.....
  - b.    Folic acid deficiency produces.....
  - c.    Which vitamin helps in Calcium absorption.....
  - d.    Name of Milk Carbohydrate.....
  - e.    Name of Vitamin E is .....
  - f.    Vitamin B<sub>1</sub> deficiency disease is.....
  - g.    Type of diet in hypertension.....
  - h.    Glucose stores in the body in form of.....
  - i.    VLDL stands for.....

**P.T.O.**

**[30 Marks]**

1.
  - a. Differentiate between Prokaryotic and Eukaryotic cell. [3]
  - b. Briefly discuss the principle and applications of Polyacrylamide Gel Electrophoresis. [3]
2.
  - a. Explain the role of Kidneys in maintenance of acid base balance. [4]
  - b. What are Heteropolysaccharides. Give examples. [2]
  - c. Define Anomers and Epimers. [2]
3. **Write short notes on:**
  - a.
    - i) Unsaturated fatty acids. [2]
    - ii) Atherosclerosis. [2]
  - b. Describe briefly the process of Protein glycosylation. [4]
4.
  - a. **Explain the following:**
    - i) Structure and function of Vitamin D. [2]
    - ii) Absorption, transport and storage of Iron. [2]
  - b. Describe the general structure of Immunoglobulins. [4]

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**B.Sc.(N) [1<sup>st</sup> Year]**  
**BF/2009/06**

**English**

[New Scheme w.e.f. 2006]

**M.M. : 75**

**Time : 3 Hours.**

Note : Attempt all questions.

1. **Write an essay in about 300 words on any ONE of the following:**

1. An ideal hospital.
2. Cleanliness.
3. Computers in medical profession.
4. Habit of Reading books.

[15]

2. Write a letter to Health officer for creating awareness against adulteration. [10]

3. Write a short note on inculcating healthy habits among children. [10]

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

Last year a grand exhibition was held in our town; and my friends and I went to see it one evening. Our first impression on entering the grounds was that whole thing looked like a fairyland. The vast space was decorated in magnificent, bright and gay colours and lit up with countless lights. Men and women in their best holiday clothes were moving from corner to corner, admiring the beauty of all kinds of stalls set up. These stalls were like small shops and they had for show or for sale such goods as cloth, both ordinary and fancy, household furniture, various types of machinery, musical instruments and numerous articles for daily use all showing labels "Made in India".

While the stalls made a very interesting sight, what attracted us most was the Children's Corner in the exhibition which was crowded with boys and girls. All types of amusements could be seen here, such as a merry-go-round, the giant wheel with tumbling boxes, wooden horses, dodge-cars, a railway train and other things. In each of these, children and some grown-ups, even, were seated and were having a most thrilling and exciting time. I too had my share of fun with my friends and returned home after enjoying a most delightful evening.

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

1. I am quite sorry to hear your story.
2. I reached at the station in time.
3. He entered in the room.
4. I prefer Coffee than tea.
5. I shall invite you at dinner.

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

1. He died \_\_\_\_\_ AIDS.
2. She camp and stood \_\_\_\_\_ me.
3. Listen \_\_\_\_\_ the song.
4. \_\_\_\_\_ which side do we stand?
5. Donot knock \_\_\_\_\_ the gate.

**P.T.O.**

7. **Substitute One word for each of the following:** [5]
1. Any medicine that destroys germs.
  2. Where dead bodies are kept for post mortem.
  3. A girl who is going to be married.
  4. One who is recovering from illness.
  5. One whose wife has died.
8. **Give the Antonyms of the following:** [5]
1. Demand
  2. Under
  3. Love
  4. Particular
  5. Obscure.
9. **Use the following Idioms/phrases in sentences:** [5]
1. A fool's paradise.
  2. Lend a hand.
  3. A maiden speech.
  4. Iron hand.
  5. Past master.
10. **Transcribe the following in Phonetic symbols:** [5]
1. Chemist
  2. Hospital
  3. Doctor
  4. Pulse
  5. Medicine

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# B.Sc.(N) [1<sup>st</sup> Year]

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## Anatomy & Physiology

[New Scheme w.e.f. 2006]

M.M. : 75

Time : 3 Hours.

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

### **SECTION-A**

**[37 Marks]**

#### **[ANATOMY]**

**NOTE:** *Illustrate your answers with suitable diagrams.*

1. **Describe briefly any THREE:** [3x4=12]
  - a. Epithelial tissue.
  - b. Conducting system of the heart.
  - c. Ventricles of Brain.
  - d. Internal ear.
2. **Write note on any THREE of the following:** [3x4=12]
  - a. Thyroid gland and name its disorders.
  - b. Cartilages of the Larynx.
  - c. Liver and name its disorders.
  - d. Ureters and their applied aspect.
3. **Draw and label any TWO of the following:** [2x3<sup>1</sup>/<sub>2</sub>=7]
  - a. A thoracic vertebra.
  - b. A section of the Uterus.
  - c. The lobes and Sulci of the Cerebrum.
4. **Write short notes on the following:** [2x3=6]
  - a. Anastomoses and end arteries.
  - b. Pleura and Pleural cavity.

### **SECTION-B**

**[38 Marks]**

#### **[PHYSIOLOGY]**

**NOTE:** *Draw Neat and Labelled diagrams wherever necessary.*

1. **Describe briefly about [any THREE]:** [3x5=15]
  - a. Composition and function of Blood.
  - b. Microscopic structure of Kidney.
  - c. Blood clotting mechanism.
  - d. Skeletal muscle contraction.
2. **Write short notes on:** [3x5=15]
  - a. Composition and function of Gastric juice.
  - b. Cardiac cycle.
  - c. Vital capacity.
3. **Write briefly about:** [2x4=8]
  - a. Neuron.
  - b. Diabetes Mellitus.

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## Psychology

[New Scheme w.e.f. 2006]

**M.M. : 75**

**Time : 3 Hours.**

*Note: Attempt **FIVE** questions.*

1.     a.     Define Attention. [2]  
       b.     What are the determinants of Attention. [6]  
       c.     What are the characteristics of Attention. [7]
  
2.     a.     What do you understand by the term Attitude. [2]  
       b.     Explain how attitude change occurs. [6]  
       c.     What are the factors that affect attitude. [7]
  
3.     a.     Define Personality. [2]  
       b.     Discuss the factors that influence Personality. [9]  
       c.     What are the characteristics of Personality. [4]
  
4.     a.     Define Psychology. [3]  
       b.     Discuss nature and scope of Psychology. [6]  
       c.     Describe the application of psychology in nursing. [6]
  
5.     a.     What is Perception. [3]  
       b.     What are the various factors determining Perception. [6]  
       c.     Explain illusions with examples. [6]
  
6.     **Write short notes on any THREE:** [3x5=15]  
       a.     Aptitude.  
       b.     Promotion of Mental health.  
       c.     Emotion in health and disease.  
       d.     Classical conditioning.  
       e.     Defense mechanisms.

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## Nursing Foundations

[New Scheme w.e.f. 2006]

**M.M. : 75**

**Time : 3 Hours.**

*Note: Attempt all questions.*

1. **Enumerate the principles, you will follow while:** [4x5=20]
  - a. Doing surgical dressing.
  - b. Performing perineal care.
  - c. Administering Soapen water enema.
  - d. Administering oral medication.
  
2. **Describe the nursing responsibilities in the following:** [5x5=25]
  - a. Physical examination of patient.
  - b. Care of Urinary catheter.
  - c. Admitting a patient in surgical ward.
  - d. Giving Sitz bath to a patient.
  - e. Instillation of eye drops.
  
3.
  - a. Define Communication. [2]
  - b. Write down the levels of communication. [4]
  - c. Discuss the types of factors influencing Communication. [14]
  
4. **Write short notes of the following[any TWO]:** [2x5=10]
  - a. Orem's theory.
  - b. Code of ethics.
  - c. Physiology of regulation of temperature.

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