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B.Sc.(N) [1st Year] 196

BF/Sup/2008/06

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. Classification of Synovial Joints.
 - b. Neuroglial cells.
 - c. Transitional epithelium.
 - d. Smooth muscle.
2. **Write short notes on:** [3x4=12]
 - a. Eye Ball.
 - b. Spleen.
 - c. Structure of Kidney.
3. **Discuss briefly. Add a note on their applied aspect.**
 - a. Functional areas of CEREBRUM. [4]
 - b. Middle ear. [5]
 - c. Systemic circulation. [4]

SECTION-B**[38 Marks]****[PHYSIOLOGY]****NOTE:** *Draw Neat and Labelled diagrams wherever necessary.*

1. **Attempt any THREE questions. Describe briefly about:** [3x5=15]
 - a. Composition and functions of Blood
 - b. Structure and functions of Neuron.
 - c. Vital capacity and factors affecting it.
 - d. Juxta-Glomerular apparatus.
2. **Write short notes on:** [3x5=15]
 - a. Referred pain.
 - b. Hypermetropia.
 - c. Mitochondria.
3. **Write briefly about:** [2x4=8]
 - a. Diabetes Mellitus.
 - b. Composition and functions of Gastric Juice.

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English
[New Scheme w.e.f. 2006]

M.M. : 75

Time : 3 Hours.

Note : Attempt all questions.

1. **Write an essay, having about 300 words on any ONE of the following:**
 1. Medical profession.
 2. Value of discipline.
 3. The dignity of labour.
 4. Sports and sportsmanship. [15 marks]
2. **Write a letter to the Health officer of your town against the selling of food exposed to flies and dust in the city. [10 marks]**
3. **Write a short note on the future of nursing profession in India. [10 marks]**
4. **Make a precis of the following passage. Assign a heading:**

Among the manifold misfortunes that may befall humanity, the loss of health is one of the severest. All the joys which life can give, cannot outweigh the sufferings of the sick. Give the sick man everything and leave him his sufferings, and he will nevertheless cry sleepless under the pressure of the sufferings while the miserable beggar, blessed with health, sleeps sweetly on the hard ground. Spread his tables with delicious meats and choice drinks and he will push back the hand that offers them and envy the poor man who thoroughly enjoys his dry crust; let his chair be a throne and his crutch a rod of authority, he will look with contemptuous eye on marble, on gold, and on purple, and would deem himself happy, could be happy, ever were it under a thatched roof, the health of the meanest of his servants. [10 marks]
5. **Correct the following sentences: [5 marks]**
 1. She is studying in our college since 2005.
 2. Unless you do not work hard you will not pass.
 3. Had he told the truth, he would escape punishment.
 4. I told him that he will get the first prize.
 5. He hit me by a rod.
6. **Fill in the blanks with correct Prepositions: [5 marks]**
 1. I am suffering _____ fever.
 2. He took _____ his shoes before entering the temple.
 3. He deprived me _____ my pen.
 4. Do not find fault _____ my work.
 5. She has no taste _____ painting.

P.T.O.

7. **Substitute one word for the following:** [5 marks]

1. One who tests eyesight and sells spectacles.
2. One who treats disease by rubbing the muscle.
3. A physician who assists women at childbirth.
4. A place where water is collected and stored.
5. A place where orphans are housed.

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

1. Proud
2. Collect
3. Fresh
4. Coarse
5. Dry

9. **Use the following Idioms:** [5 marks]

1. At a loss.
2. A big gun.
3. To call to mind.
4. To go hand in hand.
5. An iron will.

10. **Transcribe the following into phonetic symbols:** [5 marks]

1. Drug
 2. Chemist
 3. Doctor
 4. Wife
 5. Light
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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 [45 Marks]
[NUTRITION]

1. a. What is difference between Micro and Macro nutrients. [3]
b. What is the role of ICDS[Integrated Child Development Scheme] [3]
2. a. Plan a day's diet for a pregnant woman sedentary worker. [3]
b. Discuss the role of nutrition in maintaining good health. [3]
3. a. What is BMI? Calculate the BMI of adult woman 152 cms tall and weight 53 kg. [3]
b. Discuss the role of Vitamin K in blood clotting. [3]
4. a. Define Therapeutic diets? [3]
b. Discuss the different types of hospital diets? [3]
5. a. Different types of Nutritional Anemia? [3]
b. Define HDL, LDL, VLDL in context with fat. [3]
6. a. Define Meal planning. What are the different factors that affect meal planning. [3]
b. Discuss the different methods to assess nutritional status. [3]
7. **Fill in the blanks:** [9]
 - a. Name of the Milk Protein_____.
 - b. Table sugar is also known as_____.
 - c. Name the deficiency of Vitamin C_____.
 - d. Total Caloric value of a Burger, supplying 50 gm CHO, 5gm Protein and 10 gm fat, is_____Kcal.
 - e. Iodine deficiency disease_____.
 - f. Thiamine deficiency leads to_____.
 - g. Energy RDA, of an adult man sedentary worker, is_____Kcal.
 - h. PFA stands for_____.
 - i. Name the essential amino acid_____.

P.T.O.

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SECTION-B

[30 Marks]

[BIOCHEMISTRY]

1. a. What are Lipids? How are they classified? Discuss the functions of Cholesterol in body. [5]
 b. Write a short note on Protein targeting. [3]

 2. a. What is normal pH of blood? Name important blood buffers in body. How do kidneys help in maintaining acid base balance. [4]
 b. Write short note on Enzyme inhibition. [4]

 3. a. Discuss the significance of HMP shunt. [3]
 b. Describe briefly the following:
 Free radicals and antioxidants. [3]

 4. **Write short notes on:**
 a. Fluid Mosaic model of cell membrane. [4]
 b. Vitamin -D. [4]
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Microbiology

[New Scheme w.e.f. 2006]

M.M. : 75

Time : 3 Hours.

Note:: Attempt any FIVE questions.

1. **Write short notes on:** [2x7¹/₂=15]
 - a. Universal precautions.
 - b. Standard precautions.
2. **Write briefly on:** [2x7¹/₂=15]
 - a. Gram's staining.
 - b. Enriched media.
3. **Write short notes on:** [2x7¹/₂=15]
 - a. Collection and transport of blood samples for bacteriological testing.
 - b. Define Disinfectants. Enumerate the commonly used disinfectants in the hospital.
4. Discuss the laboratory diagnosis of Tuberculosis. [15]
5. **Write briefly on:** [2x7¹/₂=15]
 - a. Medically important fungi.
 - b. Malaria.
6. **Write short notes on:** [2x7¹/₂=15]
 - a. Classification of Viruses.
 - b. Active and Passive immunity.
6. **Write notes on:** [2x7¹/₂=15]
 - a. Enriched media.
 - b. Chemical disinfectant.

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Nursing Foundations

[New Scheme w.e.f. 2006]

M.M. : 75

Time : 3 Hours.

Note: Attempt all questions.

1. **Write short notes on any FOUR of the following:** [4x5=20]
 - a. Orem's theory.
 - b. Code of ethics.
 - c. Components of nursing process.
 - d. Factors influencing health.
 - e. Physiology and regulation of temperature.

2. **Describe the nursing responsibilities in any FOUR of the following nursing interventions.** [4x5=20]
 - a. Physical examination.
 - b. O₂ administration.
 - c. Minor wound dressing.
 - d. Care of Urinary drainage.
 - e. Oral administration of drugs.

3. **Mr. Thomas, age 65 years, hospitalized with the diagnoses of Renal failure, is bed ridden.**
 - a. Define Pressure Sore. [3]
 - b. Enlist the factors leading to development of Pressure sores. [4]
 - c. Discuss the various stages of Pressure sores. [4]
 - d. Enlist the preventive measure you will take to prevent development of Pressure Sores in Mr. Thomas. [4]

4. **Enumerate the principles, you will follow while:** [4x5=20]
 - a. Administering subcutaneous injections.
 - b. Providing steam inhalation.
 - c. Performing endotracheal suction.
 - d. Performing perineal care.

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Psychology

[New Scheme w.e.f. 2006]

M.M. : 75

Time : 3 Hours.

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

- a. Define the nature of Attitude. [3]
 - b. What are the various factors affecting Attitude. [5]
 - c. How does understanding attitude help in predicting behaviour. [7]
- a. How would you define the term Behaviour in psychology [3]
 - b. Explain in detail the nature and importance of psychology in nursing. [12]
- a. What is Perception. [3]
 - b. What are the various factors determining Perception. [6]
 - c. Explain Illusions with examples. [6]
- a. Define Thinking. [3]
 - b. Discuss alterations in Cognitive processes. [5]
 - c. What is Intelligence. How is it tested. [7]
- a. Define Personality. [3]
 - a. Explain the characteristics of Personality. [6]
 - b. Describe the factors that influence Personality. [6]
- Write short notes on any THREE of the following:** [3x5=15]

 - a. Operant conditioning.
 - b. Classical conditioning.
 - c. Aptitude.
 - d. Defense mechanisms.
 - e. Adjustment problems in old age.

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Pharmacology, Pathology, Genetics

[New Scheme w.e.f. 2006]

M.M. : 75

Time : 3 Hours.

Note: USE SEPARATE ANSWER SHEET FOR EACH SECTION.

SECTION-A

[38 Marks]

[PHARMACOLOGY]

Note: Attempt TWO questions in all. Q.No. 3 is Compulsory.

1. Enumerate routes of drug administration. Describe the advantages and disadvantages of Oral route. [8]
2. Enumerate Antianginal drugs. Write in brief the toxic effects of Nitroglycerine. [8]
3. **Write short notes on any SIX:** [6x5=30]
 - a. Therapeutic uses of Morphine.
 - b. Nursing care of a patient of Organophosphorus [Insecticide] poisoning.
 - c. Anabolic steroids.
 - d. Therapeutic uses of Tetracyclines.
 - e. Antacids. f. Adverse effects of Aspirin.
 - g. Chloroquine. h. Antihistamine drugs.

SECTION-B

[25 Marks]

[PATHOLOGY]

1. **Write short notes on any TWO of the following:** [2x5=10]
 - a. Pulmonary tuberculosis.
 - b. CSF collection and analysis.
 - c. Thromboembolism.
 - d. Vascular changes in acute inflammation.
2. **Describe pathological changes in any THREE:** [3x5=15]
 - a. Osteoporosis. b. Lobar Pneumonia.
 - c. Chronic pyelonephritis. d. Pyogenic meningitis.
 - e. Atherosclerosis.

[GENETICS]

[12 Marks]

3. **Write short notes on any THREE:**
 - a. Thalassemia. b. Viral carcinogenesis.
 - c. Down syndrome d. Neural tube defects.
 - e. Gene therapy. [3x4=12]
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Community Health Nursing-I

[New Scheme w.e.f. 2006]

M.M. : 75

Time : 3 Hours.

Note: Attempt FIVE questions in all. Q.No. 6 is COMPULSORY.

1. a. Explain the concept of Health. [3]
b. List the factors that influence health of people. [4]
c. Explain any two of these factors with example. [8]
 2. a. What are the agent, host and environmental factors in causation of Malaria. [8]
b. Discuss the measures to prevent and control Malaria. [7]
 3. a. List the common sexually transmitted diseases. [3]
b. Explain the host factors of HIV infection. [5]
c. Describe the measures to prevent and control HIV infection. [7]
 4. **Explain any TWO of the following:** [2x7¹/₂=15]
a. Health hazards due to contaminated Water and its prevention.
b. Uses of Epidemiology.
c. Prevention of Sun Stroke.
d. Purification of Water on a small scale.
 5. a. Explain Population explosion and its impact on Socio-economic development. [9]
b. As a community health nurse, What you would suggest for temporary methods of Birth control. [6]
 6. **Write short notes on any THREE of the following:** [3x5=15]
a. Common health problems during old age.
b. Healthy Carrier.
c. Prevention of neonatal tetanus.
d. Drugs and Cosmetic Act.
e. Deforestation.
f. Methods of data collection.
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Medical Surgical Nursing-I

[New Scheme w.e.f. 2006]

M.M. : 75

Time : 3 Hours.

Note: Attempt all questions.

1. **Mrs. Kusam, 42 yrs. Old, is admitted in emergency with Acute Renal Failure:**
 - a. Define Acute Renal Failure. [2]
 - b. Discuss the etiological factors. [5]
 - c. Describe the medical and nursing management of Kusam. [8]

 2.
 - a. Define Chronic Obstructive Pulmonary Disease[COPD]. [2]
 - b. Discuss pathophysiology along with clinical manifestations. [8]
 - c. What education will you impart to your patient at the time of discharge from the hospital. [5]

 3.
 - a. Define Hyperthyroidism. [2]
 - b. Describe the pathophysiological changes in the body due to Hyperthyroidism. [5]
 - c. Explain the medical and nursing management of a patient with Hyperthyroidism. [8]

 4. **Write short notes on any SIX of the followings:** [6x5=30]
 - a. General principles of caring for an adult patient.
 - b. Phantam limb pain.
 - c. Radiographic diagnostic tests done for patients with Stomach and Intestinal disorders.
 - d. Theories of Pain.
 - e. Cardiac Catheterization.
 - f. Legislation relating to drugs and narcotics.
 - g. Benign prostate hypertrophy.
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**Communication and Educational
Technology**
[New Scheme w.e.f. 2006]

M.M. : 75

Time : 3 Hours.

Note: Attempt all questions.

1.
 - a. Define Communication. [2]
 - b. Explain the Communication process. [10]
 - c. Describe the barriers of Communication. [3]

 2.
 - a. Define the terms Guidance and Counselling. [2]
 - b. List the purposes of Guidance and Counselling. [3]
 - c. Describe how will you organize Counselling services. [10]

 3. Describe the principles and maxims of Teaching. [15]

 4.
 - a. Define A.V. aids. [2]
 - b. List the purposes of A.V. aids. [2]
 - c. Enlist the types of A.V. aids. [3]
 - d. Describe the techniques of using a Chalk board. [8]

 5. **Write short notes on any THREE of the following:** [3x5=15]
 - a. Group dynamics.
 - b. Lesson planning.
 - c. Essay type questions.
 - d. Health education.
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Sociology
[New Scheme w.e.f. 2006]

M.M. : 75

Time : 3 Hours.

*Note: Attempt any FIVE questions. All questions carry equal marks.
Answer should be specific to the question asked.*

1. Define Sociology. Explain importance and application of sociology in nursing profession. [15]
 2. Describe Society and Community in detail. How will you differentiate between Society and Community? [15]
 3. Write down features of Culture. What are the components of Culture. Discuss in detail. [15]
 4. What do you mean by Social Groups. Classify Social groups. Write down the characteristics of Social groups. [15]
 5. What is Family? Write down types and functions of Family. Explain how the marriage influences health and health practices. [15]
 6. What are the features of Caste in India today? Explain the influence of Caste, Class and Race on health and health practices. [15]
 7. What is Change and what is Social Change? Describe the features of Social change in detail. [15]
 8. What you understand by Social problems? What is the role and responsibility of a nurse dealing with the groups of social problems. [15]
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