

Question Paper

Exam Date & Time: 18-Jul-2022 (10:150 AM - 11:30 AM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR P.B. B.Sc. NURSING DEGREE EXAMINATION - JULY/AUGUST 2022

SUBJECT: PBN 3103A - BIOCHEMISTRY

Marks: 23

Duration: 75 mins.

Answer all the questions.

1. Short note:

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| 1A) | Define the term antimetabolite and explain with TWO suitable examples. | (3) |
| 1B) | Describe any one serum enzyme used for liver function test. | (3) |
| 1C) | Describe the components of electron transport chain. | (3) |
| 1D) | Explain digestion and absorption of protein. | (3) |
| 1E) | Write a short note on albinism. | (3) |

2. Short answers:

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|-----|--|-----|
| 2A) | Explain urea clearance test. | (2) |
| 2B) | Name FOUR precursors of gluconeogenesis. | (2) |
| 2C) | Explain Glycated hemoglobin test. | (2) |
| 2D) | Define free radical with example. | (2) |

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Question Paper

Exam Date & Time: 19-Jul-2022 (10:15 AM - 11:30 AM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR PB B.Sc. NURSING DEGREE EXAMINATION - JULY 2022

SUBJECT: PBN 3103B - BIOPHYSICS

Marks: 22

Duration: 75 mins.

Answer all the questions.

1. State whether the following statements are TRUE or FALSE. Justify your answer.

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| 1A) | The circulation of the blood depends largely on gravity. | (2) |
| 1B) | A centrifuge works on the principle of the centripetal force. | (2) |
| 1C) | The temperature at which liquid changes to solid state is called melting point. | (2) |
| 1D) | X-rays have very long wavelength and ultraviolet waves are of low frequency waves. | (2) |
| 1E) | Power is the rate at which the energy is spent and its SI unit is volt. | (2) |

Short answers:

- | | | |
|-----|---|-------|
| 2A) | List applications of atmospheric pressure. | (1) |
| 2B) | State Boyle's law. | (1) |
| 2C) | State Pascal's law. | (1) |
| 3A) | Define the terms: work, force and energy. | (1.5) |
| 3B) | Write a short note on wheel and axle. | (1.5) |
| 4) | Explain relative humidity, specific heat, melting point and boiling point. | (3) |
| 5A) | Draw ray diagram for the formation of image by a convex lens when the object is placed between the center of curvature and the principal focus and explain the characteristics of the image formed. | (2) |
| 5B) | Explain laws of reflection. | (1) |

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Question Paper

Exam Date & Time: 21-Jul-2022 (10:15 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION
FIRST YEAR P.B. B.Sc. NURSING DEGREE EXAMINATION - JULY/AUGUST 2022
SUBJECT: PBN 3108TH – MEDICAL SURGICAL NURSING

Marks: 60

Duration: 165 mins.

Answer all the questions.

Essay:

1. Mr. X, 74-year-old is brought to the emergency department with the history of breathlessness, severe left sided chest pain which is radiating to the left hand, and neck. On examination, he looks anxious, pulse 110 bpm, respiration 26 breath/min, BP 10/60 mmHg and oxygen saturation is 89% in room air. He is diagnosed to have angina pectoris. Answer the following in relation to Mr. X.

- 1A) List the risk factors of angina. (3)
- 1B) Relate pathophysiology for pain. (4)
- 1C) Formulate nursing interventions with rationale for two prioritized health problems. (6)

2. Mr. A, 50 years old was brought to the emergency department with the history of fall from height. On arrival he was conscious but unable to move his both the lower limbs. Emergency CT scan revealed spinal cord injury with fracture of T12 and L1 vertebrae. Neurological examination revealed absence of sensation in the perianal area and absence of deep tendon reflexes in both the lower limbs with no sensory and motor response. Underwent emergency surgery for spinal fusion with steel rods fixation. Postoperatively he was shifted to the neuro intensive care unit. Answer the following in relation to the presenting complaints and management of Mr. A.

- 2A) Describe the pathophysiology of spinal cord injury. (6)
- 2B) Explain the postoperative management for Mr. A. (6)

3. Short Note:

- 3A) Explain pathophysiology of asthma. (5)
- 3B) Explain types of fracture according to direction. (5)
- 3C) Describe pathophysiology of nephrotic syndrome. (5)
- 3D) Explain risk factors of cervical cancer. (5)
- 3E) Explain fluid therapy in burn injury. (5)
- 3F) Describe clinical features of hyponatremia. (5)
- 3G) Explain types of hernia. (5)

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Question Paper

Exam Date & Time: 23-Jul-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR PB B.Sc. NURSING DEGREE EXAMINATION - JULY 2022

SUBJECT: PBN 3101 - NURSING FOUNDATION

NURSING FOUNDATION [PBN 3101]

Marks: 35

Duration: 120 mins.

Answer all the questions.

Essay:

1) A 35-year-old man is admitted to the ward with complaints of severe abdominal pain, nausea and vomiting. On examination, the abdomen was distended, diffusely tender on palpation with guarding and presence of ecchymosis in the flank and periumbilical area. Laboratory reports showed elevated levels of serum amylase, serum lipase and random blood sugar. He is diagnosed to have acute pancreatitis. Write the assessment step of the nursing process considering for him. (10)

2. Answer the following with regard to Betty Neuman - Systems Model.

2A) List the assumptions. (4)

2B) Discuss the major concepts. (6)

3. Short answers:

3A) Explain professional conduct of nursing. (5)

3B) Describe Any **FIVE** factors affecting quality assurance in nursing. (5)

3C) Explain concepts of primary health care. (5)

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Question Paper

Exam Date & Time: 25-Jul-2022 (10:30 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR P.B. B.Sc. NURSING DEGREE EXAMINATION - JULY 2022
SUBJECT: PBN 3105 - MICROBIOLOGY

Marks: 45

Duration: 150 mins.

Answer all the questions.

1. Short answers:

- 1A) Write the functions of bacterial cell wall. (2)
- 1B) List the toxin mediated diseases caused by *Staphylococcus aureus*. (2)
- 1C) List the specific serological tests used for the diagnosis of syphilis. (2)
- 1D) State any four infections caused by *Candida albicans*. (2)
- 1E) Write the clinical features of histoplasmosis. (2)
- 1F) Classify fungi according to morphology. (2)
- 1G) Explain the laboratory diagnosis of *Cryptococcus neoformans* infection. (2)
- 1H) Write the clinical manifestations of filariasis. (2)
- 1I) List the complications of falciparum malaria. (2)
- 1J) State the infections caused by Herpes viruses. (2)
- 1K) Write the modes of transmission of Hepatitis B virus. (2)
- 1L) Define sterilization and give one example for physical method of sterilization. (2)
- 1M) Write the four modes of transmission of infection. (2)
- 1N) Differentiate any two features of immediate and delayed hypersensitivity reaction. (2)
- 1O) List the functions of macrophages. (2)

2. Short notes:

- 2A) Explain the laboratory diagnosis of enteric fever. (3)
- 2B) Explain the laboratory diagnosis of ascariasis. (3)
- 2C) Describe the pathogenesis and clinical features of dengue fever. (3)
- 2D) Differentiate any four features of exotoxin and endotoxin. (3)
- 2E) Describe the characteristic pattern of antibody production. (3)

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Question Paper

Exam Date & Time: 27-Jul-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR P.B. B.Sc. NURSING DEGREE EXAMINATION - JULY 2022
SUBJECT: PBN 3107TH - CHILD HEALTH NURSING

Marks: 60

Duration: 165 mins.

Answer all the questions.

Essay:

1. A mother brings 24 months old male child to a under five-clinic. Answer the following in relation to the child:
 - 1A) Write the expected weight, length, and mid-arm circumference. (3)
 - 1B) Explain the gross and fine motor development. (6)
 - 1C) Discuss the advice to be given on toilet training to the mother. (4)

2. A seven days old neonate is admitted to the surgical unit with Hirschsprung's disease and underwent temporary colostomy. Answer the following in relation to this.
 - 2A) Describe the clinical features of Hirschsprung's disease. (4)
 - 2B) Explain the surgical management. (4)
 - 2C) Describe the nursing interventions for this neonate. (4)

3. **Short note:**
 - 3A) Explain the role of a paediatric nurse. (5)
 - 3B) Discuss the psychosexual development of a preschooler. (5)
 - 3C) Discuss the problems of breast feeding and its management in infant. (5)
 - 3D) Master X, two years old child underwent surgery for developmental dysplasia of hip and he is on hip spica. Explain the post operative management of Master X. (5)
 - 3E) Describe the clinical features of meningitis. (5)
 - 3F) Explain the pathophysiology of nephrotic syndrome. (5)
 - 3G) Discuss the types of learning disorders in children. (5)

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Question Paper

Exam Date & Time: 29-Jul-2022 (10:15 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR PB B.Sc. NURSING DEGREE EXAMINATION - JULY/AUGUST 2022
SUBJECT: PBN 3106TH - MATERNAL NURSING

Marks: 60

Duration: 165 mins.

Answer all the questions.

Essay:

- 1A) Explain the physiologic changes during the first stage of labour. (6)
- 1B) Discuss the nursing management of first stage of labour. (6)
- 2A) Define the term 'Post-Partum Hemorrhage' (PPH). (2)
- 2B) Explain the causes of primary PPH. (4)
- 2C) Explain the obstetrical management of PPH. (7)

3. Short Answers:

- 3A) Explain diameters of the female pelvis. (5)
- 3B) Explain minor ailments of pregnancy. (5)
- 3C) Demonstrate different methods of breast feeding. (5)
- 3D) Explain the hemorrhagic disorders of the newborn. (5)
- 3E) Describe the types of inversion of the uterus. (5)
- 3F) Explain the causes of puerperal sepsis. (5)
- 3G) Discuss the psychological problems of teenage pregnancy. (5)

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Question Paper

Exam Date & Time: 30-Jul-2022 (10:050 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR PB B.Sc. NURSING DEGREE EXAMINATION - JULY/AUGUST 2022

SUBJECT: PBN 3102 - NUTRITION DIETETICS

Marks: 30

Duration: 115 mins.

Answer all the questions.

Short Essay:

1. Discuss the therapeutic diet for a patient suffering with peptic ulcer. (7)
2. Explain management of child with Protein Energy Malnutrition (PEM). (7)
3. **Short answers:**
 - 3A) List the principles of nutrition. (4)
 - 3B.) Explain the functions of carbohydrates. (4)
 - 3C) Illustrate the food restricted for renal disorders. (4)
 - 3D) Explain advantages of school lunch program. (4)

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