

# Question Paper

Exam Date & Time: 17-Oct-2022 (10:15 AM - 11:30 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR P.B. B.Sc. NURSING DEGREE EXAMINATION - OCTOBER 2022  
SUBJECT: PBN 3103A - BIOCHEMISTRY

Marks: 23

Duration: 75 mins.

1. **Short note:**

- 1A. Explain the interpretation of benedicts test (3)
- 1B. Explain THREE important features of a competitive enzyme inhibitor. (3)
- 1C. Describe the  $\alpha$ -helix structure of protein. (3)
- 1D. Explain competitive enzyme inhibition (3)
- 1E. Describe principle of Van den Berg reaction (3)

2. **Short answers:**

- 2A. Explain any two groups of renal function tests. (2)
- 2B. Name the key enzyme of cholesterol biosynthesis and write the reaction catalysed by it (2)
- 2C. Explain deficiency disorder of Vitamin A (2)
- 2D. Explain the phenomenon of denaturation of protein and give an example of denaturing agent (2)

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# Question Paper

Exam Date & Time: 18-Oct-2022 (10:15 AM - 11:30 AM)



## FIRST YEAR PB B.Sc. NURSING DEGREE EXAMINATION – OCTOBER 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.**

- 1A. The acceleration due to gravity is same all over the surface of earth (2)
- 1B. Frictional force is always in the direction opposite to the direction of motion between two objects in contact. (2)
- 1C. Light is a form of energy and it travels in air in the form of a mechanical wave like sound wave. (2)
- 1D. The temperature at which liquid changes to solid state is called the melting point. (2)
- 1E. ECG is used to diagnose the health of heart. (2)

**2. Short answers :**

- 2A. Define the term focal length of a lens. Calculate 'f' given,  $u=10.0$  cm,  $v=20.0$  cm (symbols have usual meanings for a convex lens). What is the value of magnification? (1.5)
- 2B. State and explain the law of reflection using proper ray diagram (1.5)
- 2C. Convert  $37^{\circ}\text{C}$  into K and  $^{\circ}\text{F}$ . (2)
- 2D. State Boyle's law. (1)
- 2E. Derive an expression of  $F=ma$  and define centrifugal force (3)
- 2F. Explain radiation of heat and mention two applications of atmospheric pressure (3)

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# Question Paper

Exam Date & Time: 19-Oct-2022 (10:30 AM - 01:00 PM)



## FIRST YEAR PB B.Sc. NURSING DEGREE EXAMINATION – OCTOBER 2022 SUBJECT: PBN 3104 - PSYCHOLOGY

Marks: 45

Duration: 135 mins.

**Answer all the questions.**

### 1. Short note:

- 1A. Individual differences (3)
- 1B. Steps in problem solving behaviour (3)
- 1C. Abnormalities in thinking (3)
- 1D. Drive reduction theory (3)
- 1E. Determinants of personality (3)

### 2. Short answer:

- 2A. Social psychology (2)
- 2B. Law of segregation (2)
- 2C. Intrinsic motivation (2)
- 2D. Maternal motive (2)
- 2E. Nature of emotion (2)
- 2F. External changes in emotion (2)
- 2G. Sheldon's classification of personality (2)
- 2H. Thematic Apperception Test (2)
- 2I. Paranoid personality (2)
- 2J. Central traits of personality (2)
- 2K. Oral stage of psychosexual development (2)
- 2L. Equilibration (2)
- 2M. Intimacy vs Isolation (2)
- 2N. Mental hygiene (2)
- 2O. Norms (2)

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# Question Paper

Exam Date & Time: 20-Oct-2022 (10:30 AM - 13:00 PM)



**FIRST YEAR PB B.Sc. NURSING DEGREE EXAMINATION – OCTOBER 2022**

**SUBJECT: PBN 3105 - MICROBIOLOGY**

Marks: 45

Duration: 150 mins.

**Answer all the questions.**

**1. Short answers:**

- 1A. Classify bacteria based on their shape with examples (2)
- 1B. Explain the structure and function of bacterial flagella (2)
- 1C. Explain the pathogenesis of diphtheria (2)
- 1D. List the diseases caused by Staphylococcus aureus (2)
- 1E. Explain the transmission and clinical condition of Cryptococcus neoformans infection (2)
- 1F. Classify dermatophytes based on morphology (2)
- 1G. Explain the pathogenesis of amoebiasis (2)
- 1H. Write the source and transmission of Ascaris lumbricoides infection (2)
- 1I. Explain the pathogenesis of dengue (2)
- 1J. State the mode of transmission for Hepatitis B virus infection (2)
- 1K. Write the clinical features of aspergillosis (2)
- 1L. Enumerate the types of hypersensitivity reactions with one example for each (2)
- 1M. Write the role of immunoglobulins (2)
- 1N. Write the uses of hot air oven (2)
- 1O. List any four modes of transmission of infection. (2)

**2. Short notes:**

- 2A. Explain the transmission and pathogenesis of pulmonary tuberculosis (3)
- 2B. Explain the clinical features and complications of malaria (3)
- 2C. Describe the routes of transmission of HIV (3)
- 2D. Explain any three mechanism of innate immunity (3)
- 2E. Enumerate any three physical and chemical methods of sterilization with one example for each (3)

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# Question Paper

Exam Date & Time: 21-Oct-2022 (10:00 AM - 12:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR PB B.Sc. NURSING DEGREE EXAMINATION - OCTOBER 2022  
SUBJECT: PBN 3101 - NURSING FOUNDATIONS

**Marks: 35**

**Duration: 120 mins.**

**Answer all the questions.**

**Essay:**

- 1) Describe the guidelines for writing goals in the planning step of the nursing process with an example for each (10)
- 2) Discuss the major concepts of Goal Attainment Theory (10)

**3. Short Answers:**

- 3A) Describe the factors affecting health (5)
- 3B) List the purposes of Nursing Standards (5)
- 3C) Explain progressive patient care (5)

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# Question Paper

Exam Date & Time: 21-Oct-2022 (10:15 AM - 13:00 PM)



**FIRST YEAR PB B.Sc. NURSING DEGREE EXAMINATION – OCTOBER 2022**

**SUBJECT: PBN 3107TH – CHILD HEALTH NURSING**

Marks: 60

Duration: 165 mins.

**Answer all the questions.**

## **Essay:**

1. A mother brings an 18-month-old male child to a well-baby-clinic, in relation to this answer the following:
  - 1A. Calculate the expected weight, length, and mid-arm circumference. (3)
  - 1B. Discuss the language development (4)
  - 1C. Explain the health concerns of the child. (6)
  
2. A three year old female child is brought to the hospital with diagnosis of Cystic fibrosis. Answer the following in relation to this child.
  - 2A. List the causes (2)
  - 2B. Explain the clinical features (4)
  - 2C. Describe the medical and nursing management (6)
  
3. **Short notes:**
  - 3A. Describe the importance of play in children. (5)
  - 3B. Explain the gross and fine motor development in six-month-old infant. (5)
  - 3C. Describe the psychosexual developmental stage of five-year-old child. (5)
  - 3D. Discuss the problems of breastfeeding and its management. (5)
  - 3E. Prepare a dietary plan for a five year old child with juvenile diabetes mellitus. (5)
  - 3F. Explain the risk factors and clinical features of Wilm's tumor. (5)
  - 3G. Explain the management of cerebral palsy with children. (5)

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# Question Paper

Exam Date & Time: 22-Oct-2022 (10:15 AM - 13:00 PM)



**FIRST YEAR PB B.Sc. NURSING DEGREE EXAMINATION – OCTOBER 2022**

**SUBJECT: PBN 3108TH – MEDICAL SURGICAL NURSING**

Marks: 60

Duration: 165 mins.

Answer all the questions.

## Essay:

1. Mr. Z, 64 year old business man is presented to emergency room with the history of severe chest pain in left side and radiating to left neck and hand, breathlessness. He also gives the history of having ischemic cardiac disease since 7 years and is on treatment. On examination, he looks anxious, pulse 110 bpm, respiration 26 breath/min, BP 110/60 mmHg and oxygen saturation is 89% in room air. ECG shows anterior wall myocardial infarction. Answer the following in relation to Mr. Z.
  - 1A. List ECG changes expected. (3)
  - 1B. Relate pathophysiology for pain. (4)
  - 1C. Formulate nursing interventions with rationale for **two** prioritized health problems. (6)
  
2. Mr. X, 46 years old truck driver is admitted to with the history of severe abdominal pain gradual distention of the abdomen, breathing difficulty, intermittent vomiting, disorientation since 5days. He is diagnosed to have pancreatitis past 3 years and was on irregular treatment. On examination, he looks anxious, pulse 110 bpm, respiration 26 breath/min, BP 90/60 mmHg and oxygen saturation is 89% in room air, Chest X Ray reveals pleural effusion.
  - 2A) Explain the types of pancreatitis. (6)
  - 2B) Analyze the clinical manifestations of Mr. X. (6)
  
3. **Short Note:**
  - 3A) Explain the clinical manifestations of rheumatoid arthritis. (5)
  - 3B) Explain the pathophysiology of chronic obstructive pulmonary disease. (5)
  - 3C) Classify burn injury according to tissue depth. (5)
  - 3D) Explain the side effects of chemotherapy. (5)
  - 3E) Explain the types of cerebrovascular accidents(CVA). (5)
  - 3F) Describe types of urinary incontinence. (5)
  - 3G) Explain the managements of benign prostatic hypertrophy. (5)

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