

Question Paper

Exam Date & Time: 18-Aug-2021 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR NURSE PRACTITIONER CRITICAL CARE POST GRADUATE RESIDENCY PROGRAM EXAMINATION -
AUGUST 2021

SUBJECT: ADVANCED HEALTH ASSESSMENT (NP 605.1A)

Answer ALL questions.

Marks: 70

Duration: 180 mins.

Essays:

1. Answer "Cardiovascular Assessment" under the following headings:

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|-----|------------------------------------|------|
| 1A) | Non- invasive diagnostic measures. | (10) |
| 1B) | Cardiac enzymes tests. | (5) |

2. Mr. 56 years old male is brought to emergency department with complaints of inability to open his right eye since morning. He has been experiencing headache in moderate intensity for the past 5 days. Physical examination reveals; he is conscious and oriented, vital parameters are stable, right eye is partially open. He also complains of right sided weakness. Answer the following with regard to Mr.

X:

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|-----|--|-----|
| 2A) | Assessment of first seven cranial nerves. | (7) |
| 2B) | Motor function assessment. | (8) |

3. Write short notes on the following:

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|-----|---|-----|
| 3A) | Care of a patient undergoing colonoscopy. | (6) |
| 3B) | Assessment of spine. | (6) |
| 3C) | Normal age-related changes in the respiratory system. | (6) |
| 3D) | Gross motor and fine motor development in infants. | (6) |
| 3E) | Assessment of fluid status in the body. | (6) |

4. Write short answer on the following:

- | | | |
|-----|--------------------------------------|-----|
| 4A) | Assessment of graphesthesia. | (2) |
| 4B) | Signs and symptoms of breast cancer. | (2) |

- 4C) Mr. X 62 years old, known to have diabetes mellitus is brought to the emergency department with the history of drowsiness and disorientation. His ABG report is as given below. Interpret the following ABG value. Analyze the possible reason for the findings. (2)
PaO₂ - 95 mmHg, SaO₂ - 90%, pH -7.30, PaCO₂ - 35 mmHg, HCO₃ - 18mmHg
- 4D) 'A,B,C,D' assessment of skin lesion. (2)
- 4E) Assessment of thyroid function. (2)

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Question Paper

Exam Date & Time: 20-Aug-2021 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR NURSE PRACTITIONER CRITICAL CARE POST GRADUATE RESIDENCY PROGRAM EXAMINATION -
AUGUST 2021

SUBJECT: ADVANCED SKILLS IN LEADERSHIP, MANAGEMENT AND TEACHING (NP 603)

Answer all the questions.

Use diagrams, illustrations wherever needed.

Marks: 70

Duration: 180 mins.

Answer all the questions.

- 1A) Which leadership styles are appropriate for a nurse manager to adopt in critical care setting? Justify (10)
the answer with relevant example.
- 1B) Explain any **TWO** theories of leadership applicable in the critical care setting. (5)

Answer all the questions.

2. Answer the following questions in relation to teaching methods.

- 2A) Describe the principles of microteaching. (5)
- 2B) Explain the steps of microteaching with an example from critical care unit. (10)

Answer all the questions.

3. Write short notes on the following:

- 3A) Techniques of stress management. (6)
- 3B) Purposes of nursing audit in critical care unit. (6)
- 3C) Types of inventory control in critical care unit. (6)
- 3D) Principles of material management (**Any Six**). (6)
- 3E) Process of performance appraisal. (6)

4. Write short answers on the following:

- 4A) Types of communication. (2)
- 4B) Purposes of team building in critical care unit. (2)
- 4C) Principles of teaching applied to critical care nursing. (2)
- 4D) Role of Nurse leader in staff education in critical care setting. (2)
- 4E) Leadership role of Advanced Practice Nurse. (2)

Question Paper

Exam Date & Time: 23-Aug-2021 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR NURSE PRACTITIONER CRITICAL CARE POST GRADUATE RESIDENCY PROGRAM EXAMINATION -
AUGUST 2021

SUBJECT: RESEARCH APPLICATION AND EVIDENCE BASED PRACTICE IN CRITICAL CARE (NP 602)

Marks: 70

Duration: 180 mins.

Answer all the questions.

1. Mr X, a researcher in a dialysis department wants to know the efficacy of a new drug A to treat anxiety. Mr X, wants to identify if drug A causes a reduction in anxiety like the drug company claims. How can Mr X answer this question?

- 1A) Identify the suitable research design that answers question of Mr X. (2)
1B) Discuss in detail the types of above research design with examples. (13)

2. Explain "data collection methods" under the following heading:

- 2A) Types with example. (8)
2B) Advantages and disadvantages of each method. (7)

3. Write short notes on:

- 3A) Methods to promote research culture. (6)
3B) Factors influencing sampling. (6)
3C) Criteria for selecting a good research problem. (6)
3D) Utilization of research findings. (6)
3E) Steps of Evidence Based Practice. (6)

4. Write short answers on:

- 4A) Skills in conducting individual research. (2)
4B) Types of variables. (2)
4C) Format of writing research report. (2)
4D) Types of validity. (2)
4E) Significance of informed consent in research. (2)

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Question Paper

Exam Date & Time: 25-Aug-2021 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR NURSE PRACTITIONER CRITICAL CARE POST GRADUATE RESIDENCY PROGRAM EXAMINATION -
AUGUST 2021

SUBJECT: ADVANCED PATHOPHYSIOLOGY & PHARMACOLOGY (NP 604)

Answer ALL questions.

Draw the diagrams wherever necessary.

Marks: 70

Duration: 180 mins.

SECTION - A: ADVANCED PATHOPHYSIOLOGY (35 marks)

Answer all the questions.

1. Mr. X, 60 years, got admitted to Cardiac Care Unit (CCU) with complaints of chest pain and tightness in the chest. Coronary angiogram revealed Single Vessel Disease with 90% block in the Left Anterior Descending Artery (LAD) and he has undergone emergency coronary angioplasty and shifted to CCU with the support of Intra-Aortic Balloon Pump (IABP) device in view of mild Left Ventricular Dysfunction with reduced Ejection Fraction. Answer the following in relation to the management and presenting complaints of Mr. X.

- | | | |
|-----|---|-----|
| 1A) | The principle of functioning of IABP device. | (3) |
| 1B) | Immediate post-operative care for Mr. X. | (6) |
| 1C) | Possible complications for Mr. X on IABP support. | (6) |

2. Write short notes on:

- | | | |
|-----|--|-----|
| 2A) | Health education plan for a patient with seizure disorder. | (6) |
| 2B) | Management of patient with diabetic ketoacidosis. | (6) |
| 2C) | Immediate management of a patient with cardiogenic shock. | (6) |

Write short answers:

- | | | |
|----|---|-----|
| 3) | Stages of burns as per the depth of injury. | (2) |
|----|---|-----|

SECTION - B: ADVANCED PHARMACOLOGY (35 marks)

Answer all the questions.

4. Essay:

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|-----|---|-----|
| 4A) | Explain the pharmacological actions of digoxin. | (5) |
| 4B) | Describe the history and assessment findings required to diagnose digoxin toxicity. | (5) |
| 4C) | Explain the management of digoxin toxicity. | (5) |

5. Write short notes:

- 5A) Medical management of acute spinal cord injury. (6)
5B) Fluid and electrolyte management in diabetic ketoacidosis. (6)

6. Write short answers:

- 6A) Mechanism of action of aminoglycosides. (2)
6B) Topical wound therapies for thermal burn wound. (2)
6C) Clinical uses of antiplatelet drugs. (2)
6D) Mechanism of drugs by chemical action with example. (2)

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