

Question Paper

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



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR NURSE PRACTITIONER CRITICAL CARE POST GRADUATE RESIDENCY PROGRAM EXAMINATION -
AUGUST/SEPTEMBER 2022
SUBJECT: ADVANCED HEALTH/PHYSICAL ASSESSMENT (NP 605.1TH)

Marks: 70

Duration: 180 mins.

Answer all the questions.

Draw the diagrams wherever necessary.

Essays:

1. Mr. B, 45 years old carpenter is brought to the emergency department with acute exacerbation of Chronic Obstructive Pulmonary Disease (COPD). He gives the history of COPD for 25 years and is on irregular treatment. He is a chronic smoker. His oxygen saturation is 82% on room air, BP-100/60 mmHg, Heart rate- 112 beats/mins, and the respiratory rate is 32 breaths/min. He has nasal flaring and open mouth breathing. Answer the following questions in relation to the nurse practitioner's role in the respiratory system assessment of Mr. B.

- 1A) Discuss the detailed history to be obtained from Mr. B. (8)
- 1B) Elaborate the steps in auscultation of chest with expected normal and abnormal findings pertaining to the diagnosis of Mr. B. (7)

2. Mr. C, 55 years old is brought to the emergency department with the history of breathlessness, 3 episodes of vomiting, disorientation, swelling of the abdomen and edema of the lower limbs for 4 days. Mr. C is diagnosed to have chronic renal failure and he was on hemodialysis for the past 5 years. He was on irregular medication and has missed his last due hemodialysis. Considering the role of a nurse practitioner, answer the following with regard to Mr. C.

- 2A) Discuss the immediate investigations to be ordered with justification. (8)
- 2B) Explain the measures to assess the fluid volume status of Mr. C. (7)

3. Short Notes:

- 3A) Ms. F, 79 years is brought to the medicine outpatient department with the complaints of severe fatigue and activity intolerance. Elaborate the functional assessment to be performed for Mr. F. (6)
- 3B) Ms. D, 30-years old is presented to the medicine OPD with signs and symptoms suggestive of hyperthyroidism. She doesn't have significant past medical history. Discuss the diagnostic blood investigations to be prescribed for Ms. D to confirm the diagnosis. (6)
- 3C) Mr. G, 52 years, known to have rheumatoid arthritis for the past three years is presented to the emergency department with the complaints of severe joint pain and swelling of both upper and lower extremities. Discuss the joint mobility assessment to be performed in Mr. G with interpretation. (6)

- 3D) Baby J, 12- months old, born at term, was brought to the well-baby clinic. The birth weight was 3 kg, and the length was 42 cm. Explain the month wise gross motor and fine motor developmental milestones that is expected in Baby J. (6)
- 3E) Mr. H, 65 years, a known case of heart failure on treatment is brought to the emergency department with the complaints of breathing difficulty and increased swelling of his lower extremities. Discuss the measure to assess the venous pressure of Mr. H. (6)

4. Short answer:

- 4A) Ms. K, 28 years old primigravida is in labor. Explain the monitoring of Ms. K using the Modified Partograph by WHO II assessment tool. (2)
- 4B) Mr. A, 50 years old is admitted to the medical ward with the complaints of head ache, fatigue, blurring of vision and itching of the skin. After examining the complete blood count report, the treating physician suggested for cytology of bone marrow aspiration. Justify the need for bone marrow aspiration in Mr. A. (2)
- 4C) Ms. H, 56 years is admitted to the neurology ward following ischemic cerebrovascular accident. She is conscious and oriented. She has right sided hemiplegia. Physician has instructed to perform proprioception assessment for Ms. H. Discuss the assessment steps of proprioception in Ms. H with justification for the findings. (2)
- 4D) Ms. I, 22 years old has come to the ENT OPD with the complaints of earache and ear discharge. Explain the middle ear examination assessment steps of Ms. I. (2)
- 4E) Interpret the skin lesion seen in the figure given below. (2)



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Question Paper

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



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR NURSE PRACTITIONER CRITICAL CARE POST GRADUATE RESIDENCY PROGRAM EXAMINATION -
AUGUST / SEPTEMBER 2022

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

Marks: 70

Duration: 180 mins.

Answer all the questions.

Essay:

1) Explain with examples the leadership styles the nursing supervisor can apply to manage the unit and the staff effectively. (15)

2. The nurse educator is planning to conduct an Objective Structured Clinical Examination (OSCE) to assess the knowledge and skill of the staff nurses working in Emergency Medical Department (EMD). Answer the following questions:

2A) Prepare a schedule of OSCE stations with three skill and two knowledge assessment stations. (10)

2B) Explain the advantages and limitations of implementing the OSCE for the EMD nurses. (5)

3. Short note:

3A) The nurse manager of a hospital notices unhappiness and conflict among the staff nurses regarding the change in the duty timings. Explain the role of the nurse manager in managing the conflicting situation. (6)

3B) Explain the quality assurance cycle applicable to the critical care unit. (6)

3C) Write the guiding principles, the nurse manager should consider for selecting supplies and equipment in the critical care unit. (6)

3D) Explain the implications of VED for prioritizing the equipment required for the critical care unit. (6)

3E) Explain any three methods of performance appraisal used for the staff nurse of critical care unit. (6)

4. Short answers:

4A) Write the process of communication in the critical care unit. (2)

4B) Illustrate the role of a nurse manager in creating a motivating climate in the critical care unit. (2)

4C) Write the principles of learning applied to critical care nursing. (2)

4D) Explain the principles of staff evaluation of a critical care unit. (2)

4E) Summarize the roles of an Advanced Practice Nurse in critical care unit. (2)

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Question Paper

Exam Date & Time: 03-Sep-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR NURSE PRACTITIONER CRITICAL CARE POST GRADUATE RESIDENCY PROGRAM EXAMINATION -
AUGUST / SEPTEMBER 2022

SUBJECT: ADVANCED PATHOPHYSIOLOGY AND ADVANCED PHARMACOLOGY RELEVANT TO CRITICAL CARE
(SECTION - A & B) (NP 604)

Marks: 70

Duration: 180 mins.

SECTION - A (35 MARKS)

Answer all the questions.

Answer all the questions (specify if any other).

Essay:

1. Mrs. A, 55 years, with a previous history of Myocardial Infarction got admitted to the hospital with the complaints of fever and difficulty in breathing. On auscultation of lungs, crackles were heard. The SpO₂ was 86%. ABG analysis showed PaO₂ level of 80 mmHg. She was administered with supplemental oxygen, 6 litres/minute but the saturation was not improving and she continued to remain hypoxemic. She was diagnosed to have respiratory failure. Answer the following in relation to the diagnosis and presenting complaints of Mrs. A.

- 1A) Describe the types of respiratory failure and the type which Mrs. A is suffering with. (8)
- 1B) Explain the medical and nursing management required for Mrs. A. (7)

2. Short notes:

- 2A) Describe the pathophysiology of nephrotic syndrome. (6)
- 2B) Compare between thyroid storm and Myxedema coma. (6)
- 2C) Discuss the causes and clinical manifestations of Ruptured uterus. (6)

Short answers:

- 3) Analyze the investigations for iron deficiency anemia. (2)

SECTION - B (35 MARKS)

Essay:

4. Mr X 60 years male, a known case of type 2 Diabetes Mellitus and Hypertension is started on hemodialysis for End Stage Renal Disease. Answer the following.

- 4A) Illustrate the principles of prescribing medications to a dialysis patient. (6)
- 4B) Explain the commonly used drugs for Mr X considering the disease and treatment. (9)

5. Short note:

- 5A) Explain the pharmacological management for a 30 years old post-natal woman presented with history of pain, redness and blanching without cyanosis on right leg, and confirmed the diagnosis of deep venous thrombosis on venous ultrasonography. (6)
- 5B) Illustrate the pharmacological management for a 60 years old female admitted in emergency ward with sudden onset of intense dyspnea, diaphoresis, cyanosis and diagnosed as pulmonary edema. (6)

6. Short answers:

- 6A) Illustrate the use of Dexmedetomidine in intensive care units. (2)
- 6B) Compare the wound management for patients with 15% superficial and full thickness burns. (2)
- 6C) Outline the practical issues to be considered in selection and titration of vasopressors or inotropic agents in patients with shock? (2)
- 6D) Appraise the choice of polymyxins in intensive care unit. (2)

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Question Paper

Exam Date & Time: 05-Sep-2022 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST YEAR NURSE PRACTITIONER CRITICAL CARE POST GRADUATE RESIDENCY PROGRAM EXAMINATION -
AUGUST / SEPTEMBER 2022

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

Marks: 70

Duration: 180 mins.

Answer all the questions (specify if any other).

Essay:

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| 1A) | Appraise the utilization of research findings. | (3) |
| 1B) | Explain the barriers to utilize nursing research findings. | (6) |
| 1C) | Justify how to improve research utilization in nursing. | (6) |
| 2A) | Summarize the benefits of writing research proposal. | (5) |
| 2B) | Explain the components of research proposal with relevant examples. | (10) |

3. Short note:

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| 3A) | Explain the role of advanced nurses in research. | (6) |
| 3B) | Appraise the research methods for developing the quality indicators. | (6) |
| 3C) | Justify the different types of diagrammatic presentation of data and its advantages. | (6) |
| 3D) | Explain the components of a well-constructed review question with an example. | (6) |
| 3E) | Explain the factors to be considered while implementing Evidence Based Practice (EBP) in critical care units. | (6) |

4. Short answers:

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| 4A) | Write the specific purposes of nursing research. | (2) |
| 4B) | Recommend the influential factors for a culture of research. | (2) |
| 4C) | Summarize the steps of literature review. | (2) |
| 4D) | Explain the principles of Evidence Based Practice. | (2) |
| 4E) | Design the general structure of a manuscript. | (2) |

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