

# Question Paper

Exam Date & Time: 26-Jul-2021 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR NURSE PRACTITIONER CRITICAL CARE POST GRADUATE RESIDENCY PROGRAM EXAMINATION - JULY 2021  
SUBJECT: FOUNDATIONS OF CRITICAL CARE NURSING PRACTICE (NP 701.1A)

Marks: 70

Duration: 180 mins.

Answer all the questions.

Essay:

1. Answer the following in relation to the assessment of critically ill patients.

- 1A) Monitoring patient with Braden score. (6)  
1B) APACHE score in patient evaluation. (9)

2. You are a coronary care unit nurse assigned to Mr. Z, 55 year old who is recovering from an anterior wall myocardial infarction after undergoing reperfusion therapy. You notice that the cardiac monitor is giving alarm and shows unorganized ECG rhythm and also Mr. Z is unresponsive without pulse.

- 2A) Explain the immediate steps to be taken by nurse practitioner to revive Mr. Z. (9)  
2B) Describe the algorithm which is suitable for Mr. Z's condition. (6)

3. Write Short Notes on:

- 3A) Equipment and supplies in critical care unit. (6)  
3B) Family sensitive care in the critically ill. (6)  
3C) Caution for opioid administration in critically ill. (6)  
3D) Total parenteral nutrition for critically ill patients. (6)  
3E) Standard precautions in infection control. (6)

Answer all the questions.

4. Write Short Answers:

- 4A) Richmond agitation and sedation scale. (2)  
4B) Factors affecting family learning process. (2)  
4C) Nonmaleficence in critical care. (2)  
4D) Factors contributing to obstructive sleep apnea. (2)  
4E) Staffing in ICU. (2)

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# Question Paper

Exam Date & Time: 27-Jul-2021 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR NURSE PRACTITIONER CRITICAL CARE POST GRADUATE RESIDENCY PROGRAM EXAMINATION -  
JULY 2021

SUBJECT: CRITICAL CARE NURSING - I (NP 702.1A)

Answer ALL questions.

Draw the diagrams wherever necessary.

Marks: 70

Duration: 180 mins.

Answer all the questions.

1. Mrs. X, aged 65 years, an old case of myocardial infarction got admitted to the hospital with the complaints of difficulty in breathing. She had undergone coronary angioplasty two weeks ago and stent was placed in her left anterior descending artery. In the immediate post-operative period she was connected to intra-aortic balloon pump machine in view of mild left ventricular systolic dysfunction. The SpO<sub>2</sub> was 86% on room air. ABG analysis showed PaO<sub>2</sub> level 80mmHg. She was administered with supplemental oxygen 4 litres/minute, but the saturation was not improving and she continued to remain hypoxemic and diagnosed to have pulmonary embolism.

- 1A) Discuss the etiology and risk factors for pulmonary embolism. (8)
- 1B) Explain the role of nurse practitioner in the management of Mrs. X. (7)

2. Mr. X, aged 58-years, businessman reported to the emergency department at 1.00 pm with complaints of facial droop, one side weakness and slurring of speech since morning 11.00 am. He is a known case of hypertension since 15 years, on Tab. Aten 25 mg BD and hyperlipidemia since six years, on Tab Atorvastatin 30 mg OD. After the initial assessment and CT scan of brain, he was diagnosed to have left-sided ischemic stroke.

- 2A) Explain the medical & surgical management for Mr. X. (10)
- 2B) Discuss the rehabilitative plans for Mr. X. (5)

3. Write short notes on:

- 3A) Discharge planning in patient with pacemaker. (6)
- 3B) Psychosocial issues in caring for ICU patients. (6)
- 3C) Management of perforative peritonitis. (6)
- 3D) Clinical manifestations of chronic renal failure. (6)
- 3E) Management of hyperthyroidism. (6)

4. Write short answers:

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|-----|--|-----|
| 4A) | Oxygen need in COPD patient.                     | (2) |
| 4B) | Percussive findings in gastro intestinal system. | (2) |
| 4C) | Causes for upper gastrointestinal bleed.         | (2) |
| 4D) | Types of acute tubular necrosis.                 | (2) |
| 4E) | Etiologic classification of diabetes mellitus.   | (2) |

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# Question Paper

Exam Date & Time: 29-Jul-2021 (10:00 AM - 01:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR NURSE PRACTITIONER CRITICAL CARE POST GRADUATE RESIDENCY PROGRAM EXAMINATION -  
JULY 2021

SUBJECT: CRITICAL CARE NURSING - II (NP 703.1A)

Answer ALL questions.

Draw the diagrams wherever necessary.

Marks: 70

Duration: 180 mins.

1. Mr. X, aged 22 years, a victim of a car accident, without other known associated pathology or drug abuse history, was brought in an ambulance to the emergency department. On arrival, Glasgow Coma Scale (GCS) - E1V1M3, intubated, sedated and mechanically ventilated. The neurologic exam revealed spontaneous flexion of both arms and pupils miotic, equal in diameter and reactive to light. The patient was hemodynamically stable, with breath sounds present equally bilateral and left basal rales. The CT-scan of the head revealed bilateral frontotemporal hemorrhagic contusions, left occipital hematoma and laceration, with diffuse cerebral edema without midline shift and left parieto-occipital comminuted fracture. Answer the following in relation to the management and presenting complaints of Mr. X.

- 1A) Assessment of trauma patient. (7)
- 1B) Role of nurse practitioners in the initial management of Mr. X. (8)

2. Ms. Y, a 28 year old involved in a house fire was brought to the emergency department (ED). The emergency medical system crew initiated humidified oxygen at 15L/min using non re-breather mask and established an IV line using 16-gauge cannula and started with lactated Ringer's solution. On arrival vital signs are: blood pressure- 100/66mm Hg, pulse -125 beats/min, respiration- 34 breaths/ min and SpO<sub>2</sub> - 93%. She appeared anxious and in pain. Answer the following in relation to the management and presenting complaints of Ms. Y.

- 2A) Interventions needed to care for Ms. Y on her arrival in the ED. (8)
- 2B) Possible systemic effects expected to occur in Ms. Y? (7)

3. Write short notes on:

- 3A) Etiology & clinical manifestations of disseminated intravascular coagulation (DIC) in pregnancy. (6)
- 3B) Types of esophageal atresia. (6)
- 3C) Issues in the end of life care. (6)
- 3D) Effects of anesthesia on cardiovascular function. (6)
- 3E) Immediate management of ocular emergencies. (6)

4. Write short answers:

- |     |   |     |
|-----|---|-----|
| 4A) | Contraindications for pre-deposit autologous donations. | (2) |
| 4B) | Signs and symptoms of thrombocytopenia.                 | (2) |
| 4C) | Clinical features of malaria according to its stages.   | (2) |
| 4D) | Diagnosis of avian flu in humans.                       | (2) |
| 4E) | Difference between spinal and epidural anesthesia.      | (2) |

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