

Question Paper

Exam Date & Time: 16-Sep-2020 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR NURSE PRACTITIONER CRITICAL CARE POST GRADUATE RESIDENCY PROGRAMME EXAMINATION
- SEPTEMBER 2020
SUBJECT: FOUNDATIONS OF CRITICAL CARE NURSING PRACTICE (NP 701.1A)

Marks: 70

Duration: 180 mins.

Answer all the questions.

1. Mr. X 60 year male is admitted in ICU with the chief complaints of severe breathlessness and inability to lie-down. His speech is not clear and finds very difficult to talk. He has COPD since 34 years and is on treatment. His ABG shows: pH: 7.28, PaCO₂ = 55 mmHg, PaO₂ = 80 mmHg.

- 1A) Interpret his ABG with justification. (7)
- 1B) Describe Respiratory auscultation. (5)
- 1C) Explain Capnography study for Mr. X. (3)

2. Mrs. Y, 34 year old is wheeled in to emergency department with the complaints of chest discomfort and palpitations. She gives the history that occasionally she experiences palpitations but settles down spontaneously, but today it is persisting for the past three hours. Cardiac monitor shows regular narrow complex tachycardia. The automated BP is 110/80 mmHg, respiratory rate is 22/mt.

- 2A) Explain the Nurse practitioner's role in the immediate treatment modality for Mrs.Y with rationale. (9)
- 2B) Describe the tachyarrhythmia algorithm with relation to Mrs.Y. (6)

3. Write short notes on:

- 3A) Principles of critical care nursing. (6)
- 3B) Thermoregulation in the critically ill patients. (6)
- 3C) Non pharmacological management of pain. (6)
- 3D) Prevention of urinary tract infection in ICU patients. (6)
- 3E) Assessing nutritional status of critically ill patients. (6)

4. Write short answers:

- 4A) Spiritual distress of the critically ill patients. (2)
- 4B) Family education process. (2)
- 4C) Steps in ethical decision making. (2)
- 4D) Circadian rhythm. (2)
- 4E) Admission protocol in ICU. (2)

-----End-----

Question Paper

Exam Date & Time: 17-Sep-2020 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR NURSE PRACTITIONER CRITICAL CARE POST GRADUATE RESIDENCY PROGRAMME EXAMINATION
- SEPTEMBER 2020
SUBJECT: CRITICAL CARE NURSING - I (NP 702.1A)

Answer ALL questions.
Draw the diagrams wherever necessary.

Marks: 70

Duration: 180 mins.

1. Mr. A, aged 72 years, presents to the emergency room with worsening dyspnea, abdominal distension, swelling in the legs and reduced urine output. His son describes to nurse about his father's worsening condition from the last week that; his dyspnea got worse; he cannot do his daily activities such as taking bath, dressing and uses 3-4 pillows in bed while resting. The patient verbalizes and reports "since last week; I feel breathless and swollen, even though I take my diuretic and medication as prescribed. I cannot leave my room. I need help for everything. I can't eat or rest anymore. I am so tired". His previous medical history shows that he is diagnosed with ischemic cardiomyopathy, heart failure with reduced ejection fraction (HFrEF) < 20%, atrial fibrillation, diabetes mellitus and chronic kidney disease.

- 1A) Describe the pathophysiology of heart failure. (8)
1B) Discuss the role of nurse practitioner in the management of Mr. A. (7)

2. Mr. X, aged 38-years, gym trainer met with a road traffic collision and brought to the trauma triage. On arrival his GCS score was E3V3M4. He had two episodes of vomiting and loss of consciousness. After initial assessment with CT scan of brain it was diagnosed as subdural hematoma and is planned for decompressive craniotomy.

- 2A) Discuss the immediate management of Mr. X. (9)
2B) Explain the role of nurse practitioner in the management of Mr. X. (6)

3. Write short notes on:

- 3A) Discuss on cardiovascular symptoms. (6)
3B) Discuss the guidelines for chest tube insertion. (6)
3C) Etiology of pancreatitis. (6)
3D) Complications of hemodialysis. (6)
3E) Complications of diabetes mellitus. (6)

4. Write short answers:

- 4A) Rehabilitation for COPD individuals. (2)
4B) Abnormal auscultatory findings of respiratory system. (2)
4C) Complications of abdominal injury. (2)
4D) Causes of acute renal failure. (2)

4E)

Risk factors for hypothyroidism.

(2)

-----End-----

Question Paper

Exam Date & Time: 18-Sep-2020 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND YEAR NURSE PRACTITIONER CRITICAL CARE POST GRADUATE RESIDENCY PROGRAMME EXAMINATION
- SEPTEMBER 2020
SUBJECT: CRITICAL CARE NURSING - II (NP 703.1A)

Answer ALL questions.
Draw the diagrams wherever necessary.

Marks: 70

Duration: 180 mins.

1. Mrs. X, aged 32 years got admitted to the emergency department with mild right upper quadrant abdominal pain. On arrival, she was awake and alert. She reports that she has consumed 2 strips (30 tablets) of Dolo 650 mg (Acetaminophen). Her past medical history reveals about treatment on bipolar disorder and schizophrenia with previous suicidal attempts. Laboratory investigation on admission - Na - 134mEq/L, K - 3.3mEq/L, Bicarb - 14 mmol/L, Cl - 103 mEq/L, BUN - 9 mg/dL, Creatinine - 1.17 mg/dL, Glucose - 350 mg/dL, T. Bilirubin - 2.1 mg/dL, AST - 468 U/L, ALT - 100 U/L, ALP - 100 U/L, PT - 21.7 sec and INR - 2.0. Answer the following in relation to the management and presenting complaints of Mrs. X.

- 1A) Stages of acute acetaminophen toxicity. (7)
1B) Role of nurse practitioners in the treatment of Mrs. X. (8)

2. Mr. Y, aged 80 years got admitted to burns ICU after a water heater blast accident at home. The assessment revealed 46% TBSA burned by flame (2nd and 3rd degree). The regions affected were the face, posterior neck, posterosuperior trunk, right anterosuperior trunk, the right lumbar and dorsal side of both upper extremities and both lower extremities. He is a known case of Chronic Obstructive Pulmonary Disease (COPD) and coronary artery disease. Answer the following in relation to the management and presenting complaints of Mr. Y.

- 2A) Factors which determine the effects of burn injury in Mr. Y. (7)
2B) Fluid resuscitation for Mr. Y. (8)

3. Write short notes on:

- 3A) Pathophysiology of Amniotic Fluid Embolism (AFE). (6)
3B) Management of asphyxia neonatorum. (6)
3C) Forms of elderly abuse. (6)
3D) Drugs used in general anesthesia. (6)
3E) Crisis intervention. (6)

4. Write short answers:

- 4A) Etiology of sickle cell disease. (2)
4B) Causes of Disseminated Intravascular Coagulation (DIC). (2)
4C) Second generation vaccines for rabies. (2)

- 4D) Clinical features of Chikungunya. (2)
- 4E) Drugs used in spinal anesthesia. (2)

-----End-----