



**DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY**  
**UNIVERSITY EXAMINATION FOR THE 2019/2020 ACADEMIC YEAR**  
**END OF SEMESTER EXAMINATION**  
**DEPARTMENT OF NURSING SCIENCES**  
**COURSE: BACHELOR OF SCIENCE (NURSING)**  
**COURSE CODE: HNS 2407**  
**COURSE TITLE: MEDICAL SURGICAL NURSING VI**  
**YEAR 4 SEMESTER 2 – SEPTEMBER 2016 DIRECT ENTRY CLASS**  
**DATE: 5<sup>th</sup> OCTOBER 2020**  
**TIME: 9AM TO 12 NOON.**  
**DURATION: 3 HOURS**

**INSTRUCTIONS**

1. Please indicate your **REGISTRATION NUMBER** on all the answer sheets: **DO NOT WRITE YOUR NAME.**
2. The paper consists of **THREE (3)** sections.
3. **SECTION I** consists of **MULTIPLE CHOICE QUESTIONS**. Attempt **ALL** the questions by choosing the **BEST** choice among the statements. Clearly indicate any corrections made.
4. **SECTION II** consists of **8 SHORT ANSWER QUESTIONS**. Attempt **ALL** the questions.
5. **SECTION III** consists of **TWO (2) LONG ESSAY QUESTIONS**. Answer the **TWO (2)** questions.

## **SECTION 1: MULTIPLE CHOICE QUESTIONS (20 MARKS)**

1. During dialysis excessive water is extracted from blood through the process of:
  - A. Diffusion
  - B. Hemofiltration
  - C. Ultrafiltration
  - D. Osmosis
2. The following is an appropriate description of an intensive care unit facilities EXCEPT:
  - A. The beds should have side rails and wheels
  - B. Bed space 150 to 200 square feet per open bed with 8 feet btw beds
  - C. Monitors and patients should be positioned in places where direct and indirect observation can be done by the ICU nurses
  - D. Beds should be adjustable with head board
3. The best approach of managing hyper-acute kidney rejection following kidney transplant is:
  - A. Commencing patient on high doses of immunosuppressive therapy
  - B. Nephrectomy of transplanted kidney
  - C. Administration of high doses of antibiotics
  - D. Removing the patient's own diseased kidney
4. Abnormal rinne's test is achieved when:
  - A. The tuning fork sound is heard loudest at the external auditory canal
  - B. When the tuning fork sound is heard loudest at the mastoid process
  - C. When the tuning fork is heard loudest at the vertex
  - D. When the tuning fork is heard bilaterally equally at the external auditory canals
5. The following statement implies normal hearing acuity in a whisper test:
  - A. An individual can hear a whisper at an arm's length
  - B. The individual can hear a normal voice at an arm's length
  - C. When one can only hear a loud voice at an arm's length
  - D. If the individual can only hear a loud voice at a very close range
6. Hearing loss in acute otitis media is caused by:
  - A. Destruction of the vestibulocochlear nerve
  - B. Otosclerosis of the middle ear bones
  - C. Accumulation of exudates in the middle ear
  - D. Inflammation and occlusion of the external auditory meatus
7. For question 7 indicator TRUE or FALSE on the following statements:
  - A. Patients with serous otitis media are encouraged to frequently perform valsava maneuver
  - B. Administration of low doses of corticosteroids reduces edema
8. When managing sinusitis the patient should be informed to avoid frequent use nasal decongestant sprays because:
  - A. They are likely to cause decreased immunological response
  - B. They cause rebound congestion when discontinued

- C. They can easily be taken up systemically and cause systemic side effects
  - D. They can cause decreased blood flow to the sinuses
9. A patient who has undergone tonsillectomy presents with frequent swallowing in the immediate post-operative phase. This patient is likely having:
- A. Post-nasal drip from secondary complication of sinusitis
  - B. Excessive salivation stimulated by tonsillectomy
  - C. Excessive pus exudates from the surgical site
  - D. Hemorrhage
10. The following statements are TRUE about continuous renal replacement therapies (CRRT) EXCEPT:
- A. CRRT produces rapid fluid shifts
  - B. CRRT does not require dialysis personnel to carry out the procedures
  - C. It can be initiated quickly in hospitals without dialysis facilities.
  - D. CRRT methods are similar to hemodialysis methods in that they require access to the circulation and blood to pass through an artificial filter.
11. The following is a component of dialysate delivery system in hemodialysis:
- A. Heparin pump
  - B. Dialyzer
  - C. Air detector
  - D. Source of bicarbonate
12. In peritoneal dialysis fluid is removed from the patient by:
- A. Addition of negative pressure to the dialysate
  - B. Frequent drainage of dialysate from the peritoneum
  - C. Addition of glucose to the dialysate
  - D. Draining the dialysate using a wide cannula
13. Hypopyon refers to :
- A. Accumulation of pus in the anterior chamber of the eye
  - B. Formation of extra blood vessels on the conjunctiva
  - C. Turning inwards of the eye lashes
  - D. Formation of small pits on the conjunctiva
14. The most common risk factor of orbital cellulitis is:
- A. Upper respiratory tract infection
  - B. Dental infections
  - C. Sinusitis
  - D. Meningitis
15. The leading cause of blindness among children and young adults is:
- A. Trachoma
  - B. Ocular trauma
  - C. Eye infections
  - D. Conjunctivitis

16. When one eye is totally injured and blind, it is important to have it removed surgically within 2 weeks because:
- A. Surgical removal prevents infection of the globe
  - B. This helps to prevent sympathetic ophthalmia of the good eye
  - C. Surgical removal of damaged eye provides good pain relief for the patient
  - D. This helps to improve cosmetic appearance of the victim
17. Astigmatism is caused by:
- A. Long eyeball
  - B. Short eyeball
  - C. Opacity of the lens
  - D. Irregular curvature of the cornea
18. The most common route that bacteria use to reach the kidneys in pyelonephritis is:
- A. Hematogenous spread
  - B. Direct spread to the kidneys
  - C. Ascending through the urethra
  - D. Spreading from lymphatic drainage
19. Ear syringing is contra-indicated in:
- A. Removal of wax impaction
  - B. Vegetable materials and insects
  - C. Inorganic materials like pebbles
  - D. Beads in external ear
20. Vertigo is defined as
- A. Involuntary rhythmic movement of the eyes
  - B. Disturbance of equilibrium caused by constant motion
  - C. Misperception or illusion of motion of the person or the surroundings.
  - D. abnormal inner ear fluid balance caused by a malabsorption in the endolymphatic sac.

## **SECTION 2: SHORT ANSWER QUESTIONS (40 MARKS)**

1. State 6 complications of peritoneal dialysis **(6 marks)**
2. Explain 3 circumstances that may necessitate nephrectomy **(6 marks)**
3. State 4 specialized roles that are performed by an ICU trained nurse in the critical care setting **(4 marks)**
4. Explain how exchanges are carried out in peritoneal dialysis **(6 marks)**
5. Describe nursing management of a patient before and after renal angiography **(7 marks)**
6. State 5 ways of ensuring infection prevention in an intensive care unit **(5 marks)**
7. Explain 6 ways of enhancing special orientation and mobility for individuals with blindness **(6 marks)**

## **SECTION 3: LONG ANSWER QUESTIONS (40 MARKS)**

1. Recurrent tonsillitis can be managed by tonsillectomy
  - a) State 5 clinical manifestations of tonsillitis **(5 marks)**
  - b) Explain post-operative management following tonsillectomy **(12 marks)**
  - c) Outline 3 complications of tonsillectomy **(3 marks)**
2. Cataract is a common cause of reversible blindness that comes with advancing age.
  - a) State 3 types of cataract **(3 marks)**
  - b) Outline four (4) non-surgical remedies in cataract management **(4 marks)**
  - c) Describe pre-operative and post-operative management of a patient who is scheduled to undergo cataract extraction and lens replacement **(13 marks)**