



(University of Choice)

MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

MAIN CAMPUS

UNIVERSITY EXAMINATIONS 2019/2020 ACADEMIC YEAR

SECOND YEAR, FIRST TRIMESTER EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE IN medical social work

COURSE CODE: Nms 326

COURSE TITLE: NEPHROLOGY AND ORGAN TRANSPLANT FOR SOCIAL WORKERS

(MAIN EXAMINATION)

DATE: 18/04/2023

TIME: 0800-1100am

INSTRUCTIONS TO CANDIDATES

ANSWER ALL QUESTIONS

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

1 | Page

NURSING MANAGEMENT OF ENDOCRINE, HEMATOLOGIC AND ALIMENTARY DISORDERS

SECTION ONE: MULTIPLE CHOICE QUESTIONS (20 MARKS)

- 1. The following structures is found within the urinary system
 - a. Gall bladder
 - b. Ureter
 - c. Sphincter of Oddi
 - d. Larynx
- 2. Each kidney contains about a million nephrons, each of which begins in a filtration apparatus called:
 - a. The proximal tubule
 - b. The glomerular capsule
 - c. The loop of Henle
 - d. Pyramids of the kidney
- 3. The hormone produced by the kidneys that plays a role in the production of red blood cells is
 - a.Adrenaline
 - b. Oxytocin
 - c. Aldosterone
 - d. Erythropoietin
- 4. Ultrafiltration by the glomerulus is enhanced by:
 - a. Large surface area of the capillaries
 - b. Thin semipermeable barrier
 - c. High pressure in the capillaries
 - d. All of the above
- 5. Through which vessel does blood leave the glomerulus?
 - a. Afferent arteriole
 - b. Renal calyx
 - c. Efferent arteriole
 - d. Renal vein
- 6. The process of voiding urine from the bladder is known as:
 - a. Menstruation
 - b. Implantation
 - c. Excretion
 - d. Micturition
- 7. Consent for organ donation is best obtained by:
 - a. Transplant surgeon
 - b. An intern
 - c. A medical social worker
 - d. A professional trained in dealing with organ donation issues
- 8. The following conditions is an absolute contraindication to organ donation?
 - a. Bacteremia
 - b. Squamous cell cancer of the skin
 - c. HIV infection

- d. Hospital acquired pneumonia
- 9. The following statements about an arterio-venous fistula is true?
 - (a) It is contraindicated if the left ventricular ejection fraction is less than 40 %
 - (b) The blood flow is good if it remains full of blood when the arm is elevated
 - (c) The dialysis needle is inserted as near to the anastomosis as possible
 - (d) The risk of infection is lower than with a dialysis catheter
- 10. The following statements about a peritoneal dialysis catheter is true?
 - (a) Fluid should take under 20 min to drain out
 - (b) The tip should be located in the centre of the abdomen
 - (c) Fluid should be slightly cloudy on draining out
 - (d) Dried exudate ('crusting') at the exit site should be treated with antibiotics
- 11. The following statements about a kidney transplant patient is false?
 - (a) Infections after 12 months are usually due to conventional organisms
 - (b) Post-transplant lymphoproliferative disease is due to T cell proliferation
 - (c) Cotrimoxazole is used to prevent Pneumocystis jiroveci pneumonia (PJP)
 - (d) The commonest site of malignancy is the skin
- 12. A 30 y.o. female patient is undergoing hemodialysis with an internal arteriovenous fistula in place. What do you do to prevent complications associated with this device?
 - a. Insert I.V. lines above the fistula.
 - b. Avoid taking blood pressures the in arm with the fistula.
 - c. Palpate pulses above the fistula.
 - d. Report a bruit or thrill over the fistula to the doctor.
- 13. A patient becomes restless and tells you she has a headache and feels nauseous during hemodialysis. Which complication do you suspect?
 - a. Infection
 - b. Disequilibrium syndrome
 - c. Air embolus
 - d. Acute hemolysis
- 14. A patient is complaining of muscle cramps while undergoing hemodialysis. Which intervention is effective in relieving muscle cramps?
 - a.Increase the rate of dialysis
 - b. Infuse normal saline solution
 - c. Administer a 5% dextrose solution
 - d. Encourage active ROM exercises
- 15. A patient with ESRD has an arteriovenous fistula in the left arm for hemodialysis. Which intervention do you include in his plan of care?
 - a. Apply pressure to the needle site upon discontinuing hemodialysis
 - b. Keep the head of the bed elevated 45 degrees
 - c. Place the left arm on an arm board for at least 30 minutes
 - d. Keep the left arm dry
- 16. A patient had surgery to form an arteriovenous fistula for hemodialysis. Which information is important for providing care for the patient?
 - a. The patient shouldn't feel pain during initiation of dialysis
 - b. The patient feels best immediately after the dialysis treatment
 - c. Using a stethoscope for auscultating the fistula is contraindicated

- d. Taking a blood pressure reading on the affected arm can cause clotting of the fistula
- 17. A patient with diabetes mellitus and renal failure begins hemodialysis. Which diet is best on days between dialysis treatments?
 - a. Low-protein diet with unlimited amounts of water
 - b. Low-protein diet with a prescribed amount of water
 - c. No protein in the diet and use of a salt substitute
 - d. No restrictions
- 18. After the first hemodialysis treatment, your patient develops a headache, hypertension, restlessness, mental confusion, nausea, and vomiting. Which condition is indicated?
 - a. Disequilibrium syndrome
 - b. Respiratory distress
 - c. Hypervolemia
 - d. Peritonitis
- 19. Which criterion is required before a patient can be considered for continuous peritoneal dialysis?
 - a. The patient must be hemodynamically stable
 - b. The vascular access must have healed
 - c. The patient must be in a home setting
 - d. Hemodialysis must have failed
- 20. Immunosuppression following Kidney transplantation is continued:
 - a. For life
 - b. 24 hours after transplantation
 - c. A week after transplantation
 - d. Until the kidney is not anymore rejected

SHORT ANSWER QUESTIONS (40 MARKS)

- 1. State five (5) functions of the kidneys (5 marks)
- 2. State five (5) causes of kidney disease (5 marks)
- 3. Explain four (4) roles of nephrology social workers in prevention of renal disease in the community (8 marks)
- 4. State four (4) causes of depression among patients undergoing dialysis (8 marks)
- 5. State four (4) reasons why peritoneal dialysis is preferred over hemodialysis (8 marks)
- 6. Elucidate six (6) roles of the family in nephrology (6 marks)

LONG ANSWER QUESTIONS

- 1. Mr. Tee 34 years old, a business man in the local market has been admitted for treatment of end stage renal disease
 - a. Define hemodialysis

(2 marks)

b. Explain any 3 arteriovenous accesses used in dialysis

(6 marks)

c. Describe the process of hemodialysis

(12 marks)

2. As a nephrology social worker one is required to uphold the patients' rights

- a. Describe five (5) ethical principles in nephrology and organ transplant (10 marks)
- b. Explain five rights of a kidney donor and five rights of a kidney recipient (10 marks)

THE END