

KENYA MEDICAL TRAINING COLLEGE FACULTY OF CLINICAL SCIENCES DEPARTMENT OF CLINICAL MEDICINE

FINAL QUALIFYING EXAMINATION FOR DIPLOMA IN CLINICAL MEDICINE AND SURGERY

PAPER: SURGERY

DATE: 28th July, 2021

TIME: 3 HOURS (9:00AM - 12:00 NOON)

INSTRUCTIONS

- 1. This paper consists of:
 - Section 1 (40 Multiple Choice Questions)
 - Section 2 (8 Short Answer Questions)
 - Section 3 (1 Long Answer Question)
- 2. Attempt ALL Questions
- 3. Write the EXAMINATION NUMBER given on all the answer sheets provided and on the question paper.
- 4. Ensure that all examination answer scripts are handed in at the end of the examination
- 5. Ensure you sign the examination register provided

DAZAR ADALA TIONI	NUMBER
EXAMINATION	NUMBER

SURGERY

SECTION 1: MULTIPLE CHOICE QUESTIONS - (40 MARKS)

- 1. A reason for documenting patient's full names in clerkship is to:
 - a) make a diagnosis
 - b) maintain records
 - c) formulate treatment plan
 - d) assess economic status
- 2. In taking a surgical history
 - a) Past medical history is irrelevant+
 - b) leading questions are prohibited
 - c) use of medical terms is advocates in history of presenting illness
 - d) occupational history is important+
- 3. The following surgical conditions run in families EXCEPT
 - a) hypertension
 - b) haemorrhoids
 - c) peptic ulcer
 - d) cancer of thyroid gland x
- 4. The best method of palpating the kidney is
 - a) light palpation
 - b) deep palpation
 - c) Bimanual palpation
 - d) Bidigital palpation
- 5. Definitive investigation in a patient with haematemesis is
 - a) plain abdominal x-ray
 - b) blood for haemoglobin levels
 - c) oesophagogastroduodenoscopy
 - d) barium follow through
- 6. Which of the following medical condition is associated with increased risk of perioperative infections
 - a) bronchial asthma
 - b) diabetes mellitus
 - c) hypertension
 - d) epilepsy
- 7. Surgery performed to correct a non-life threatening condition is referred to as;
 - a) Exploratory surgery
 - b) cosmetic surgery
 - c) elective surgery
 - d) extirpation
- 8. Which of the following drug is given preoperatively to prevent emesis
 - a) loperanide
 - b) adrenaline

- c) atropine
- d) metoclopramide
- 9. Post-operative management of a diabetic patient entails the following EXCEPT a) frequent monitoring of blood glucose levels
 - b) immediate removal of urinary catheter
 - c) continued insulin glucose infusion for at least 24 hours
 - d) close monitoring of the wound
- 10. A middle aged man presents with diffuse swelling of the left leg associated with pain following a thorn prick. He has a temperature of 39.0°C. Which is the most likely
 - a) abscess
 - b) erysipelas
 - c) cellulitis
 - d) furuncullitis
- 11. Infection of a hair follicle is referred to as
 - a) carbuncle
 - b) empetigo
 - c) necrotoizing fasciitis
 - d) furuncle
- 12. A female patient weighing 60kgs is admitted with 35% burns. Using the Parklands formula, how much fluid should she be infused in the first 8 hours.
 - a) 8400 mls
 - b) 2100 mls
 - c) 4200 mls
 - d) 7200 mls
- 13. Which of the following statements best describes first degree burns
 - a) involve the epidemis, arm blisters and painless *
 - b) painful, massive tissue damage and form blister
 - c) erythematous, painful and no blister
 - d) painful, leathery appearance and minimal skin oedema
- 14. Which of the following is a malignant skin ulcer
 - a) Marjolin ulcer
 - b) tropical ulcer
 - c) trophic ulcer
 - d) venous ulcer
- 15. A patient with left sided pneumothorax will present with
 - a) dull percussion note on the affected side
 - b) tracheal deviation to the right side
 - c) reduced chest expansion on the right side
 - d) normal breath sounds
- 16. Which one of the following is not an indication for underwater seal drainage
 - a) lung abscess
 - b) malignant pleural effusion
 - c) haemothorax

- d) pneumothorax
- 17. The following is an absolute contraindication of circumcision
 - a) penile warts
 - b) sickle cell disease
 - c) prematurity
 - d) hydrocele
- 18. The following is a form of a dynamic intestinal obstruction
 - a) Bezoar
 - b) paralytic ileus
 - c) meconium
 - d) enteroliths
- 19. About acute appendicitis
 - a) nausea and vomiting scores 2 in Alvarado scoring
 - b) does not present with guarding.
 - c) IV antibiotics should be stopped
 - d) Early ambulation is encouraged
- 20. Which one of the following is a characteristic of a direct inguinal hernia
 - a) commonly extends to the scrotum
 - b) reduces spontaneously on lying down
 - c) more prone to strangulation
 - d) recurrence after surgery is rare
- ·21. Concerning carcinoma of the pancreas
 - a) majority are squamous cell carcinoma
 - b) jaundice is a rare clinical features.
 - c) commonest site is the head
 - d) presents with lower abdominal pains.
- 22. Painless haematuria may be caused by
 - a) bladder calculi
 - b) cystitis
 - c) ruptured urethra
 - d) bladder papilloma
- 23. The following is a chronic complication of the peptic ulcer disease
 - a) gastric outlet obstruction
 - b) severe haematemesis
 - c) perforation
 - d) anorexia
- 24. A head injury patient who opens eyes to pain, utters inappropriate words and has abnormal flexion of the limbs is considered to have a Glasgow coma scale of
 - a) 8
 - b) 6
 - c) 9
 - d) 10

- 25. Definitive treatment of massive epidural haematoma in a patient with head injury is
 - a) evacuation by burr holing
 - b) intravenous mannitol
 - c) intravenous antibiotics
 - d) evacuation via craniotomy
- 26. About cancer of the prostate
 - a) prostate specific Antigen(PSA) levels of 8ng/ml is diagnostic
 - b) pelvic pain is symptom of advances disease
 - c) gland feels soft on digital rectal examination
 - d) orchidectomy has no role to play in its treatment
- 27. Fracture occurring due to repeated stress on a bone is referred to as
 - a) fatigue fracture
 - b) flagility fracture
 - c) pathological fracture
 - d) fracture dislocation
- 28. The following are methods of fracture immobilization by external splintage EXEPT
 - a) Thomas splint
 - b) External fixation
 - c) plaster of paris
 - d) cervical colar
- 29. The most appropriate method of treating a severely displaced fracture of the olecranon process is
 - a) tension band wiring/
 - b) external fixation
 - c) intramedullary nail
 - d) functional brace
- 30. The following is an x-ray feature of acute osteomyelitis
 - a) osteophytes- (. *
 - b) pathological fracture
 - c) ground glass appearance
 - d) periosteal reaction
- 31. About colle's fracture
 - a) distal fragment displaces anteriorly-
 - b) its treated with a belo elbow plaster of paris
 - c) is common in young people!
 - d) sudeck's osteodystrophy is an early complication
- 32. Which one of the following is true about fracture neck of femur
 - a) Garden IV fracture is best treated with skin traction
 - b) is more common on the left side
 - c) is likely to complicate with avascular necrosis of femoral head
 - d) Arthodesis is preferred for elderly patients
- 33. The most preferred method of treating multiple fractures of the metartarsals is
 - a) Boot plaster of paris
 - b) internal fixation with Kiirscher wires

- c) amputation
- d) Application of a crope bandage
- 34. The commonest cause of death in a patient with major pelvic fracture is
 - a) vascular injury
 - b) rupture of the urethra
 - c) nerve injury
 - d) non-union
- 35. Soap bubble appearance on x-ray is a feature of
 - a) Ewing's sarcoma
 - b) chacro sarcoma
 - c) osteogenic sarcoma
 - d) giant cell tumour./
- 36. The commonest site of skeletal tuberculosis is
 - a) proximal femur
 - b) vertebral column
 - c) rubs
 - d) distal radius
- 37. About perthe's disease
 - a) Affect more females compared to males
 - b) affects proximal tibia
 - c) majority are bilateral
 - d) application of skin traction plays a role in its management
- 38. Concerning gouty arthritis
 - a) treatment of choice is intra-articular corticosteroids
 - b) has no genetic predisposition
 - c) predisposes to osteoarthritis
 - d) initial attack affects the 1st metacarpophalangeal joint
- 39. In muscle power grade 3
 - a) limb moves with gravity eliminated
 - b) limb moves against gravity but not resistance.
 - c) limb has normal power+
 - d) limb has flicker of muscle contraction:
- 40. Fracture of the base of the 1st metacarpal bone extending into the carpometacarpal joint is referred to as.
 - a) Bennet's fracture
 - b) smith's fracture+
 - c) monteggia fracture:
 - d) pilon fracture

SECTION 2: SHORT ANSWER QUESTIONS - (40 MARKS)

- 1. Rheumatoid arthritis and osteoarthritis are types of joint inflammatory conditions. State five differences between the two conditions (5 marks)
- 2. A male patient presents to you with dysphagia. Enumerate any five enquiries you would consider to make in history taking (5 marks)
- 3.. List five medical indications of male circumcision (5 marks)
- 4. A middle aged female patient has sustained severe head injury caused by road traffic accident. State five complications of this injury (5 marks)
- 5. Outline treatment of a patient with tension pneumothorax (5 marks)
- 6. State five x-ray features of generalized osteoporosis (5 marks)
- 7. An adult male patient presents with right mid shaft fracture femur. State five indications of open reduction with internal fixation (ORIF) for this injury. (5 marks)
- 8. State five complications of malleolar fractures (5 marks)

SECTION 3: LONG ANSWER Questions - (20 MARKS)

1. A 60-year-old male patient presents to you with history of inability to pass urine for the last 8 hours. On examination, he is restless with a tender suprapubic mass.

a)	What is your diagnosis	(2 marks)
b)	List five causes of this condition	(5 marks)
c)	Outline the management of this condition	(13 marks)