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**25 June, 2023**



**DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO**

Booklet Serial No. 011681

Test Booklet Series

**TEST BOOKLET  
MEDICAL OFFICER  
Written Test - 2023  
(51)**

**A**

**Time Allowed: Two Hours**

**Maximum Marks: 100**

**INSTRUCTIONS**

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside.  
**DO NOT** write anything else on the Test Booklet.
4. This Test booklet contains **100** items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate Answer /Response Sheet provided. See directions in the Response Sheet.
6. All items carry equal marks.
7. Before you proceed to mark in the Answer /Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Answer /Response Sheet as per instructions sent to you with your Admission Certificate.
8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator **only the Answer /Response Sheet**. You are permitted to take away with you the Test Booklet and **Candidate's Copy of the Response Sheet**.
9. Sheets for rough work are appended in the Test Booklet at the end.
10. **Penalty for wrong answers:**

**THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).**

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **(0.25)** of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above for that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

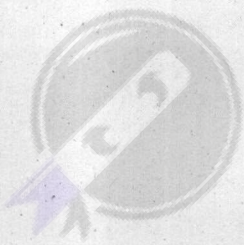
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**(51) (A)/2023**

**[P.T.O.]**



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1. A 70 years old treatment naïve male is having BPH with significant lower urinary tract symptoms. He is otherwise fit and doesn't have any comorbidities. All of the following treatment options may be offered to him except.
  - A) Alfa blockers
  - B) Testosterone supplementation
  - C) 5-alfa reductase inhibitors
  - D) TURP
2. Which one of the following statements is TRUE about pancreatic trauma?
  - A) It is frequently damaged without associated injuries to other viscera
  - B) Blunt abdominal trauma to upper abdomen carries a lesser chance of injuring the pancreas than penetrating trauma
  - C) Rise in serum amylase is not seen in the majority of cases, leading to delay in diagnosis
  - D) Urgent surgery is indicated once pancreatic trauma is diagnosed
3. Which of the following is not a form of Renal replacement therapy?
  - A) Haemodialysis
  - B) Heamofiltration
  - C) Peritoneal dialysis
  - D) Saline diuresis
4. The 'phenomenon of Kerohan's notch is associated with:
  - A) Third nerve palsy with contralateral hemiplegia
  - B) Subfalcine herniation
  - C) Trans tentorial herniation
  - D) Foramen magnum fracture
5. 61-year-old lady presented with flank pain and hematuria, initial blood investigation is normal but her ultrasound showed 6 × 7cm left renal mass with mixed echogenicity. What is the next best investigation for her?
  - A) CECT KUB
  - B) IVP
  - C) MRI KUB
  - D) Whole body F<sup>18</sup> FDG PET-CT



6. The composite forearm free flap is based upon which arterial pedicle?
- A) The radial artery
  - B) The ulnar artery
  - C) The brachial artery
  - D) The profunda brachii artery
7. A procedure which removes all lymph nodes on one side of the neck but preserves the accessory nerve, jugular vein and sternomastoid muscle is called:
- A) A radical neck dissection
  - B) A selective neck dissection
  - C) A subtotal neck dissection
  - D) A modified radical neck dissection.
8. 24-year-old male is brought to emergency after a bike accident with polytrauma, Initial evaluation showed pelvic fracture with extra peritoneal bladder rupture, what is the next step
- A) Laparotomy with bladder closure
  - B) Per urethral catheter placement for 10 days
  - C) Endoscopic bladder repair
  - D) Immediate SPC placement
9. Most important prognostic factor of colorectal carcinoma:
- A) Site of lesion
  - B) Stage of lesion
  - C) Age of patient
  - D) LN status
10. If tumour is excised through the reactive zone, what type of surgical margin would most likely be achieved?
- A) Radical
  - B) Wide margin
  - C) Marginal
  - D) Intralesional



11. Which one of the following is true with regards to exertional compartment syndrome of the leg?
- A) Requires open decompression
  - B) Usually occurs bilaterally
  - C) Usually involves all 4 compartments
  - D) Can be safely treated via a percutaneous incision
12. Most common organism responsible for deep infection after shoulder arthroplasty is:
- A) Staph. Aureus
  - B) Klebsiella pneumonia
  - C) E.coli
  - D) P.acnes
13. In the Lauge-Hansen classification system which of the following accounts for the majority of fracture types
- A) Pronation-abduction
  - B) Pronation-dorsiflexion
  - C) Pronation-external rotation
  - D) Supination-external rotation
14. How much shortening at the fracture site is acceptable in patients aged under 10 years with a femoral fracture?
- A) No limit
  - B) None
  - C) <1 cm
  - D) <2 cm
15. Left ventricular diastolic dysfunction is treated by
- A) Nebivolol
  - B) Spironolactone
  - C) Perindopril
  - D) Isosorbide mononitrate



16. Leukocyte alkaline phosphatase score is decreased in

- A) Pregnancy
- B) Chronic myeloid leukemia
- C) Polycythemia vera
- D) Leukemoid reaction

17. Meralgia paresthetica is involvement of

- A) Lateral thoracic nerve
- B) Lateral cutaneous nerve of thigh
- C) Anterior femoral nerve
- D) Gluteal nerve

18. Mini-mental state examination is used for diagnosis of

- A) Delirium
- B) Dementia
- C) Depression
- D) Stroke

19. Adverse effect of chronic amiodarone therapy

- A) Corneal deposition
- B) Cataract
- C) Glaucoma
- D) Retinal pigmentation

20. Adult polycystic kidney is inherited as

- A) Autosomal co-dominant
- B) Autosomal dominant
- C) Autosomal recessive
- D) X-linked dominant



21. Atypical pneumonia can be caused by the following microbial agents EXCEPT
- A) Mycoplasma pneumonia
  - B) Legionella pneumophila
  - C) Human corona virus
  - D) Klebsiella pneumonia
22.  $\alpha$ 1 antitrypsin deficiency is associated with
- A) Centriacinar emphysema
  - B) Panacinar Emphysema
  - C) Irregular Emphysema
  - D) Paraseptal emphysema
23. Carey Coombs murmur is heard in
- A) Severe Mitral stenosis
  - B) Severe Pulmonary hypertension
  - C) Pure Aortic regurgitation
  - D) Acute rheumatic carditis
24. Diagnostic features of Allergic bronchopulmonary Aspergillosis include all EXCEPT
- A) Changing pulmonary infiltrates
  - B) Peripheral eosinophilia
  - C) Serum precipitins against Aspergillosis fumigates
  - D) Occurrence in patients with old cavitory lesions
25. Restless leg syndrome is seen in
- A) Hypercalcemia
  - B) Hyperphosphatemia
  - C) Chronic renal failure
  - D) Hyperkalemia



26. Raindrop pigmentation is seen in poisoning with
- A) Lead
  - B) Arsenic
  - C) Copper
  - D) Mercury
27. Emphysematous cholecystitis is caused by
- A) Salmonella typhi
  - B) Pseudomonas aeruginosa
  - C) Clostridium perfringens
  - D) Bacteroides
28. Fick's principle is used to calculate
- A) Pulse pressure
  - B) Cardiac output
  - C) Oxygen consumption
  - D) Cardiac axis
29. Kerley B lines are seen in
- A) Pulmonary edema
  - B) Pulmonary embolism
  - C) Pulmonary metastasis
  - D) Pulmonary infarction
30. Risk of ectopic pregnancy after reversal of tubal sterilization.
- A) Almost 10%
  - B) Almost 25%
  - C) More than 20%
  - D) Less than 1%



31. Which of the following protects against STDs?
- A) Levonorgestrel
  - B) OCPs
  - C) Femidom.
  - D) Spermicide jellies
32. Which of the following statement about postpartum contraception is correct?
- A) Combined pills are ideal.
  - B) Inj. DMPA causes weight gain.
  - C) Post-placental IUCD insertion is comfortable.
  - D) Postpartum insertion of IUCD gets expelled
33. As per STRAW classification Stage +2 is:
- A) Early reproductive period
  - B) Early Menopausal transition
  - C) Late reproductive period
  - D) Late menopause
34. Rotterdam Criteria are used for the diagnosis of:
- A) AUB (Abnormal uterine syndrome)
  - B) Fibroid uterus.
  - C) PCOS (Polycystic Ovarian Syndrome)
  - D) Carcinoma Cervix
35. Longest portion of fallopian tube is:
- A) Isthmic
  - B) Ampullary
  - C) Fimbrial
  - D) Interstitial



36. Ferguson reflex is:
- A) Uterine contraction straightens 'foetal vertebral column'
  - B) Uterine muscles 'contracts' and 'retracts' during labour
  - C) Uterine activity with mechanical manipulation or 'stretching' of cervix and release of PGF2 alpha
  - D) Apparent higher migration' of previously low-lying placenta with formation of lower uterine segment with advancing period of gestation
37. Which of the following is accurate about the presentation of endometriosis?
- A) Dysmenorrhoea begins 1-2 days after onset of menses
  - B) Visible endometriosis correlates well with the degree of pain and other symptomatic impairment
  - C) Lateral disease is generally believed to be more painful than midline disease
  - D) Intrapelvic / intra-abdominal adhesions are important determinants of the degree of pain
38. The most common cause of jaundice in pregnancy is
- A) Obstetrics cholestasis
  - B) Viral hepatitis
  - C) Drug induced
  - D) Gall stones
39. Abnormal startle response to noise is seen characteristically in
- A) Gaucher's Disease
  - B) Metachromatic Leukodystrophy
  - C) Tay Sach's Disease
  - D) All of the above
40. Which one of the following is a red flag sign in a 12 month old:
- A) Not using single words
  - B) Not walking independently
  - C) Failure to respond to name when called
  - D) No hand preference



41. Epiphyseal centres for which bone is present at birth:
- A) Femur (distal)
  - B) Tibia (distal)
  - C) Pisiform
  - D) Radius (proximal)
42. A 10 month old child appears clinically 10 – 15% dehydrated. His vital signs include respiratory rate of 90, pulse 190, temperature 38°C, capillary refill of 3 seconds. A peripheral I.V. site cannot be secured. Priorities for fluid management would be:
- A) Careful observation and oral hydration
  - B) Intraosseous infusion
  - C) Saphenous cut down
  - D) Central line
43. A 4-month-old infant is found apnoeic and cardiac monitor shows a heart rate of 45 beats per minute with palpable pulses. Yours first intervention should be:
- A) Chest compressions
  - B) Administration of epinephrine
  - C) Opening the airway, administering positive pressure ventilation with 100% oxygen and reassessment
  - D) Endotracheal intubation and ventilation
44. Which is not a part of routine septic screen?
- A) TLC
  - B) ANC
  - C) CRP
  - D) Nucleated RBC count
45. In considering a patient with beta thalassemia major for bone marrow transplantation, which of the following is a determinant of disease free survival post transplant?
- A) Annual requirement of amount of packed red blood cell
  - B) Age at diagnosis of the disease
  - C) Chelation regimen
  - D) Age of first packed red blood cell transfusion



46. Cavitation is a feature of which of the following infections:
- A) Anaerobic bacteria
  - B) Legionella pneumonia
  - C) Hemophilus influenza pneumonia
  - D) Chlamydia pneumonia
47. Most common site of rib TB is:
- A) Costochondral junction
  - B) Costovertebral junction
  - C) Shaft of the rib
  - D) No predilection is there
48. Which of the following lobes of liver is spared in Budd-Chiari malformation?
- A) Medial segment of left lobe
  - B) Lateral segment of left lobe
  - C) Caudate lobe
  - D) Posterior segment of right lobe
49. Pedicle artery sign on colour Doppler of uterus is seen in:
- A) Submucosal fibroid
  - B) Endometrial carcinoma
  - C) Endometrial poly
  - D) Adenomyoma
50. Egg shell calcification in hilar region is seen: in:
- A) Pneumoconiosis
  - B) T.B.
  - C) Sarcoidosis
  - D) Aneurysms



51. Which of the following organisms is the most common cause of bleb-associated endophthalmitis?
- A) *Bacillus cereus*.
  - B) *Streptococcus* species .
  - C) Coagulase negative *Staphylococcus*.
  - D) *Haemophilus influenzae*
52. Which one of the following bones is not part of the medial orbital wall?
- A) Maxilla
  - B) Ethmoid
  - C) Sphenoid
  - D) Palatine
53. A conjunctival inflammatory response characterized by multiple polygonal nodules with central fibrovascular cores is consistent with a
- A) Follicular response.
  - B) Papillary response.
  - C) Phlyctenular response.
  - D) Ligneous response
54. The crystalline lens is derived from which embryonic tissue?
- A) Ectoderm
  - B) Endoderm
  - C) Mesoderm
  - D) Neuro-ectoderm
55. The auricle of the ear has reached adult shape by the following week of gestation
- A) 8<sup>th</sup>
  - B) 24<sup>th</sup>
  - C) 20<sup>th</sup>
  - D) 10<sup>th</sup>



56. The decibel scale is logarithmic and incorporates a ratio. All of the following are used for reference levels except
- A) Intensity
  - B) Barometric pressures
  - C) Sound pressure
  - D) Hearing
57. The effective vibrating part of the tympanic membrane is approximately
- A) 90 mm<sup>2</sup>
  - B) 80 mm<sup>2</sup>
  - C) 70 mm<sup>2</sup>
  - D) 55 mm<sup>2</sup>
58. The transformer ratio of the middle ear is about 22:1. This translates into approximately
- A) 5 dB
  - B) 10 dB
  - C) 20 dB
  - D) 25 dB
59. In acoustic reflex testing, the reflex will likely be absent if there is conductive pathology or a Sensorineural hearing loss greater than
- A) 20 dB
  - B) 40 dB
  - C) 60 dB
  - D) 70 dB
60. The muscle that acts on the hip and the knee is:
- A) Articularis genu
  - B) Vastus medialis
  - C) Vastus intermedius
  - D) Rectus femoris



61. A branch of the posterior division of femoral nerve is:
- A) Nerve of pectineus
  - B) Intermediate cutaneous nerve of thigh
  - C) Saphenous nerve
  - D) Muscular branch of iliacus
62. The axis of movement of subtalar joint:
- A) Passes through sinus tarsi
  - B) Passes upward and laterally
  - C) Passes upward
  - D) Passes through sustentaculum tali
63. Abduction of arm beyond 90 degrees is produced by:
- A) Gravity acting on the arm
  - B) Contribution from scapular rotation
  - C) Contraction of teres major
  - D) Action of the anterior fibers of deltoid in isolation
64. The medial boundary of the cubital fossa is formed by :
- A) The medial margin of pronator teres
  - B) The lateral margin of pronator teres
  - C) The medial margin of brachioradialis
  - D) The lateral margin of brachioradialis
65. The excessive muscle tone present in the decerebrate preparations can be reversed by
- A) Stimulation of group 1a afferents
  - B) Cutting the dorsal root
  - C) Stimulation of  $\alpha$ -motor neurons
  - D) Stimulation of  $\gamma$ - motor neurons



66. A 60-year-old woman with complaints of severe muscle weakness is brought to hospital, the only abnormality in her lab values is an elevated serum  $K^+$  level, the reason for muscle weakness due to elevated  $K^+$  is
- A) Hyperpolarization of the resting membrane potential
  - B) Closure of the  $K^+$  channels due to depolarization
  - C) Closure of the  $Na^+$  channels due to depolarization
  - D) Opening of the  $K^+$  channels due to depolarization
67. A 39-year-old man with untreated type I diabetes is brought to the emergency room. An injection of insulin is expected to cause an increase in his
- A) Urinary glucose concentration
  - B) Blood glucose concentration
  - C) Blood  $K^+$  concentration
  - D) Blood pH
68. A 60-year-old male is suffering from Parkinsonism, the type of tremor found in the patient will be
- A) Intention tremor
  - B) Physiological tremor
  - C) Resting tremor
  - D) Postural tremor
69. A ballet dancer spins to the left, during the spin her eyes undergoes a fast torsional movement about its anteroposterior axis, this fast eye movement is most probably caused by a lesion of
- A) Visual pathway in the lateral geniculate body
  - B) Ventral pathway from primary visual cortex to association visual cortex
  - C) Dorsal midbrain bundle
  - D) Anterior and posterior semicircular canal
70. The effect of bilateral loss of hippocampal function include
- A) Disappearance of remote memories
  - B) Loss of working memory
  - C) Inability to encode memory of the recent past in long term memory
  - D) Inability to recall faces and forms but retain the ability to recall printed or spoken words



71. Selective destruction of zona glomerulosa of adrenal cortex would produce a deficiency of the hormone
- A) Testosterone
  - B) Aldosterone
  - C) Cortisol
  - D) Dehydroepiandrosterone
72. Which of the followings are correctly paired?
- A) EnaC- sweet
  - B) HCN-umami
  - C) Gustducin-bitter
  - D) mGluR4-sweet
73. The electrical events occurring in the cortex after stimulation of a sense organ
- A) Is best recorded after anesthesia
  - B) Cannot be recorded
  - C) Appears after a latency of 5-12 secs
  - D) Is known as electroencephalogram
74. After a damaging stimulus, one feels an initial, sharp, pricking, highly localized pain which is mediated by
- A) A alpha fibers
  - B) A beta fibers
  - C) A delta fibers
  - D) C fibers
75. The chief enzyme responsible for replication of the lagging DNA strand in humans is:
- A) DNA polymerase  $\alpha$
  - B) DNA polymerase  $\beta$
  - C) DNA polymerase  $\gamma$
  - D) DNA polymerase



76. A child presents with hepatomegaly and hypoglycaemia between meals which is not improved by epinephrine and glucagon. The most probable diagnosis is:
- A) Cori's disease
  - B) Pompe's disease
  - C) Von-Gierke's disease
  - D) Mc-Ardle's disease
77. In the reaction catalysed by Alcohol Dehydrogenase, an alcohol is oxidized to aldehyde and  $\text{NAD}^+$  is reduced to NADH. The  $\text{NAD}^+$  is functioning as:
- A) Apoenzyme
  - B) Coenzyme-Cosubstrate
  - C) Coenzyme-prosthetic group
  - D) Cofactor
78. A teenager attempts to maintain a fat free diet for a period of several weeks. If his ability to synthesize various lipids was examined, he would be found to be most deficient in his ability to synthesize:
- A) Triacylglycerol
  - B) Phospholipids
  - C) Prostaglandins
  - D) Sphingolipids
79. The rate of DNA synthesis in a culture of cells could be most accurately determined by measuring the incorporation of which of the following radiolabelled compounds:
- A) Adenine
  - B) Guanine
  - C) Thymidine
  - D) Phosphate
80. The first test to be done in the assessment of thyroid function is measurement of:
- A) Total thyroxine
  - B) Thyroid stimulating hormone
  - C) Free thyroxine and triiodothyronine
  - D) Thyrotropin releasing hormone



81. Which one of the following is the major product of fatty acid synthesis?
- A) Acetyl CoA
  - B) Oleate
  - C) Acetoacetate
  - D) Palmitate
82. MHC Class I antigens are found on the membrane of all the following cells EXCEPT:
- A) Dendritic cell
  - B) Red blood cells
  - C) Plasma cells
  - D) Neutrophils
83. Increased formation of ketone bodies during fasting is a result of:
- A) Decreased level of circulating Glucagon
  - B) Decreased formation of acetyl CoA in the liver
  - C) Increased level of free fatty acid in blood
  - D) Inhibition of  $\beta$  oxidation of fatty acid in the liver
84. Reverse triage is defined as -
- A) Treating the most serious cases first
  - B) Discharging non-critical patients from hospital
  - C) Treating mentally ill patients
  - D) Treating adolescent and children first
85. Which is the adjunct drug for treatment of cholera in pregnant woman?
- A) Tetracycline
  - B) Streptomycin
  - C) Cotrimoxazole
  - D) Furazolidone



86. Which of the following receptor shows slowest response?
- A) Ion channel
  - B) G protein couple receptor
  - C) Steroid receptor
  - D) Enzyme linked receptor
87. Drug associated with prolongation of QTc interval is?
- A) Moxifloxacin
  - B) Spironolactone
  - C) Ranitidine
  - D) Ivabradine
88. Which of the following antiepileptic drug is effective in manic- depressive illness as well?
- A) Ethosuximide
  - B) Primidone
  - C) Phenobarbitone
  - D) Carbamazepine
89. Which of the following anaesthetic agent should not be used with adrenaline?
- A) Thiopental
  - B) Nitrous oxide
  - C) Cyclopropane
  - D) Ether
90. Drug causing gynaecomastia is
- A) Spironolactone
  - B) Rifampicin
  - C) Penicillin
  - D) Bumetanide

(51) (A)

(20)



91. GLUT-4 belongs to which class of Transporter

- A) Active transporter
- B) Facilitated diffusion
- C) Primary active transport
- D) Secondary active transport

92. Which of the following drug is associated with haemolytic anemia?

- A) Methyldopa
- B) Clonidine
- C) Brimonidine
- D) Reserpine

93. Site of action of antidiuretic hormone is

- A) Proximal tubule
- B) Distal tubule
- C) Cortical collecting duct
- D) Loop of Henle

94. Most common location for hypertensive bleed:

- A) Basal ganglia
- B) Basis pontis
- C) Cerebellum
- D) Frontal cortex

95. Chocolate color hypostasis is seen in :

- A) Drowning
- B) Aniline poisoning
- C) Carbon monoxide poisoning
- D) Hanging



96. Which of the following is semi continuous (diploid) cell line?
- A) WI-38 (Human embryonic lung cell stain)
  - B) HeLa (Human carcinoma of cervix cell line)
  - C) Hep-2 (Human epithelioma of larynx cell line)
  - D) KB (Human carcinoma of nasopharynx cell line)
97. Group B cell lymphocytes belong to
- A) CD-19
  - B) CD-69
  - C) CD-58
  - D) CD-68
98. Disseminated Neisseria infection is commonly associated with deficiency of-
- A) Properdin
  - B) Factor D
  - C) C1 inhibitor deficiency
  - D) Membrane attack complex (MAC)
99. C3 convertase in Alternative Complement pathway is-
- A) C14b2a
  - B) C3bBb
  - C) MBL/MASP-C4b2a
  - D) C3b
100. Who stated that virus is the biggest threat to man's continued dominance on the planet, while delivering Nobel Prize speech in the year 1958?
- A) Joshua Lederberg
  - B) Luc Montagnier
  - C) Robert Gallo
  - D) Kary Mullis