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Test Booklet Series

A

T. B. C. : HM-1/23

TEST BOOKLET

HOMEOPATHIC MEDICAL OFFICER

PAPER—I

Sl. No. **10421**

Time Allowed : 1 Hour and 30 Minutes | **Maximum Marks : 100**

: INSTRUCTIONS TO CANDIDATES :

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 OF THE SAME SERIES ISSUED TO YOU.
2. ENCODE CLEARLY THE TEST BOOKLET SERIES **A, B, C** OR **D**, AS THE CASE MAY BE, IN THE APPROPRIATE PLACE IN THE ANSWER SHEET USING BALL POINT PEN (BLUE OR BLACK).
3. You have to enter your **Roll No.** on the Test Booklet in the Box provided alongside. **DO NOT** write *anything else* on the Test Booklet.
4. **YOU ARE REQUIRED TO FILL UP & DARKEN ROLL NO., TEST BOOKLET / QUESTION BOOKLET SERIES IN THE ANSWER SHEET AS WELL AS FILL UP TEST BOOKLET / QUESTION BOOKLET SERIES AND SERIAL NO. AND ANSWER SHEET SERIAL NO. IN THE ATTENDANCE SHEET CAREFULLY. WRONGLY FILLED UP ANSWER SHEETS ARE LIABLE FOR REJECTION AT THE RISK OF THE CANDIDATE.**
5. This Test Booklet contains **100** items (questions). Each item (question) comprises of four responses (answers). You have to select the correct response (answer) which you want to mark (darken) on the Answer Sheet. In case, you feel that there is more than one correct response (answer), you should mark (darken) the response (answer) which you consider the best. In any case, choose **ONLY ONE** response (answer) for each item (question).
6. You have to mark (darken) all your responses (answers) **ONLY** on the **separate Answer Sheet** provided by **using BALL POINT PEN (BLUE OR BLACK)**. See instructions in the Answer Sheet.
7. All items (questions) carry equal marks. All items (questions) are compulsory. Your total marks will depend only on the number of correct responses (answers) marked by you in the Answer Sheet. **There will be no negative marking for wrong answers.**
8. Before you proceed to mark (darken) in the Answer Sheet the responses to various items (questions) in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per the instructions sent to you with your **Admission Certificate**.
9. After you have completed filling in all your responses (answers) on the Answer Sheet and after conclusion of the examination, you should hand over to the Invigilator the *Answer Sheet* issued to you. You are allowed to take with you the candidate's copy / second page of the Answer Sheet along with the **Test Booklet**, after completion of the examination, for your reference.
10. Sheets for rough work are appended in the Test Booklet at the end.

SEAL

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1. Which of the following statements are ***correct*** about trigeminal neuralgia?

   (i) Presence of trigger zones on face.

   (ii) Excruciating pain which lasts for a few seconds.

   (iii) Sensory loss in area supplied by trigeminal nerve.

   (iv) 60% cases occur in women.

   (A) *(i)*, *(ii)* and *(iii)*

   (B) *(ii)*, *(iii)* and *(iv)*

   (C) *(i)*, *(ii)* and *(iv)*

   (D) *(ii)* and *(iii)*

2. A lesion at the optic chiasma will cause

   (A) total vision loss in both eyes

   (B) right homonymous hemianopia

   (C) bitemporal hemianopia

   (D) left homonymous hemianopia

3. Which of the following is ***true*** about nephrotic syndrome?

   (A) Proteinuria ≥ 3·5 g/d

   (B) Proteinuria ≥ 4·5 g/d

   (C) Proteinuria ≤ 2·5 g/d

   (D) Proteinuria ≥ 2·5 g/d

4. The most common site for spina bifida occulta defect is

   (A) C5–C6 vertebrae

   (B) D11–D12 vertebrae

   (C) L5–S1 vertebrae

   (D) D12–L1 vertebrae

5. Which of the following ECG features is characteristically found in Mobitz type II second-degree atrio-ventricular block?

   (A) Progressive lengthening of PR interval

   (B) Shortening of RR interval

   (C) Non-conducted P wave without preceding PR interval lengthening

   (D) Shortening of PP interval

6. Development of Kussmaul breathing in a child suffering from acute diarrhea indicates

   (A) hyponatremia

   (B) alkalosis

   (C) acidemia

   (D) hyperkalemia

7. Which of the following findings of lung function test is typically found in bronchial asthma?

   (A) Increased FEV_1

   (B) Increased FEV_1/FVC ratio

   (C) Decreased FEV_1

   (D) Increased peak expiratory flow

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8. A 40 years old man, a known case of cholelithiasis, developed boring pain in epigastrium which radiated to back and chest. The serum amylase levels are raised. What is the most likely diagnosis?

(A) Acute cholecystitis

(B) Acute pancreatitis

(C) Acute gastritis

(D) Liver abscess

9. The antibody which is a useful marker for diagnosis of primary biliary cirrhosis is

(A) antimitochondrial antibody

(B) antinuclear antibody

(C) antineutrophil cytoplasmic antibody

(D) anti-dsDNA antibody

10. In hepatitis B virus infection, the first virologic marker detectable in serum within 1–12 weeks is

(A) HBsAg

(B) Anti-HBs

(C) HBcAg

(D) Anti-HBc

11. Germline mutation in tumor-suppressor genes BRCA1 and BRCA2 is associated with increased risk for

(A) uterine cancer

(B) breast cancer

(C) cervical cancer

(D) stomach cancer

12. What is the Glasgow Coma Scale in a comatose patient with following observation findings?

Eye opening to verbal command; Patient has confused conversation but is able to answer the questions asked; There is purposeful movement to painful stimulus.

(A) 10

(B) 11

(C) 12

(D) 13

13. The most common cause of hematochezia in patients more than 60 years old is

(A) hemorrhoids

(B) hemorrhage from colonic diverticulum

(C) ulcerative colitis

(D) colonic polyp

14. The Schilling test is used for finding the cause of malabsorption of

(A) thiamine

(B) riboflavin

(C) cobalamin

(D) niacin

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15. Which of the following are the major features of metabolic syndrome?

(i) Central obesity

(ii) BMI ≥ 25

(iii) Hypertriglyceridemia

(iv) Low levels of High-Density Lipoproteins (HDL)

Choose the ***correct*** option from the following :

(A) (i), (ii) and (iii)

(B) (ii), (iii) and (iv)

(C) (i), (iii) and (iv)

(D) (iii) and (iv)

16. Which of the following is/are diagnostic criterion/criteria of diabetes mellitus?

(i) Fasting plasma glucose = 127 mg/dL

(ii) Post-prandial plasma glucose = 140 mg/dL

(iii) HbA1c = 7%

Choose the ***correct*** option from the following :

(A) (i) and (ii) only

(B) (ii) and (iii) only

(C) (i) and (iii) only

(D) (ii) only

17. Which of the following is a characteristic feature of Crohn's disease?

(A) Cryptitis with crypt abscess

(B) Rectum is involved in all cases

(C) Inflammation is limited to mucosa

(D) Segmental involvement of intestine

18. Presence of subepithelial hump-shaped deposits in renal biopsy is found in

(A) IgA nephropathy

(B) membranoproliferative glomerulonephritis

(C) minimal change disease

(D) poststreptococcal glomerulonephritis

19. Which of the following is an auscultatory sign found in mitral stenosis?

(A) Ejection systolic click sound

(B) Loud pansystolic murmur

(C) Wide splitting of S1

(D) Opening snap

20. The causative organism for erythema infectiosum is

(A) parvovirus B19

(B) molluscum contagiosum virus

(C) human herpes virus

(D) cytomegalovirus

21. Which period of gestation does the 1st trimester represent?

(A) 1–10 weeks

(B) 1–11 weeks

(C) 1–12 weeks

(D) 1–13 weeks

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22. Which hormone is responsible to maintain pregnancy?

(A) Progesterone

(B) HCG

(C) Relaxin

(D) Prolactin

23. Gonadotropin Releasing Hormone (GnRH) stimulates the release of

(A) ACTH

(B) GH

(C) LH

(D) TSH

24. The most common cause of abnormal uterine bleeding in 14-year old girl is

(A) uterine cancer

(B) anovulation

(C) trauma

(D) ectopic pregnancy

25. The most common cause of rectovaginal fistula is

(A) obstetrical

(B) endometriosis

(C) carcinoma

(D) None of the above

26. Hegar's sign can be performed in

(A) 4 weeks

(B) 6–10 weeks

(C) 10 weeks

(D) 12 weeks

27. Common site of endometriosis is

(A) ovary

(B) lungs

(C) nasal mucosa

(D) thigh

28. Ovary secretes all hormones, ***except***

(A) oestrogen

(B) progesterone

(C) androgen

(D) thyroxine

29. PCOD shows clinical feature(s) like

(A) amenorrhoea

(B) hirsutism

(C) obesity

(D) All of the above

30. Pregnancy is said to be at full term after

(A) 28 weeks

(B) 36 weeks

(C) 37 weeks

(D) 42 weeks

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31. Pott's disease is related to

(A) fracture of ankle joint

(B) cervical spondylosis

(C) tuberculosis of spine

(D) patellar fracture

32. Rare site of peptic ulcer is

(A) greater curvature of stomach

(B) lesser curvature of stomach

(C) second part of deodenum

(D) Meckel's diverticulum

33. Cold abscess is

(A) tubercular

(B) pyogenic

(C) syphilitic

(D) enteric

34. The commonest cause of shock in burn is

(A) septic

(B) psychogenic

(C) hypovolemic

(D) hypervolemic

35. Varicose is most common in

(A) deep vein of lower limb

(B) spermatic vein

(C) superficial vein of upper limb

(D) superficial vein of lower limb

36. Most common and spiky urinary stone is

(A) triple phosphate stone

(B) mixed stone

(C) cystine stone

(D) oxalate stone

37. Forceps used in Hilton's method of abscess drain is

(A) sinus forceps

(B) swab holding forceps

(C) mosquito forceps

(D) allis forceps

38. Anchovy sauce like pus is suggestive of

(A) gastric origin

(B) pancreatic origin

(C) hepatic origin

(D) tubercular origin

39. Courvoisier's law is suggestive of

(A) cancer of liver

(B) cancer of head of pancreas

(C) cancer of stomach

(D) cancer of uterus

40. Murphy's sign is positive

(A) in acute gastritis

(B) in acute pancreatitis

(C) in acute cholecystitis

(D) in reflux oesophagitis

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41. High grade astrocytoma is

(A) brain tumor

(B) adrenocortical tumor

(C) bone tumor

(D) uterine tumor

42. Spondylolisthesis is

(A) forward slippage of vertebral bodies

(B) back slippage of vertebral bodies

(C) lateral slippage of vertebral bodies

(D) no slippage of vertebral bodies

43. A felon is

(A) an abscess between the specialized fingertip septa in distal pulp

(B) an abscess in interphalangeal cleft

(C) an abscess in palm

(D) a paronychia

44. The condition of a patient hearing better in a noisy surrounding is known as

(A) a symptom of otosclerosis

(B) an acoustic nerve tumor

(C) Meniere's disease

(D) otolabyrinthitis

45. The absence of lens from normal position is called

(A) dysplasia

(B) pterygium

(C) aphakia

(D) trachoma

46. Aedes mosquito transmits the following diseases, ***except***

(A) yellow fever

(B) Rift Valley fever

(C) Japanese encephalitis

(D) Zika

47. Inhalation of sugarcane dust causes

(A) bagassosis

(B) byssinosis

(C) anthracosis

(D) siderosis

48. PQLI scale is

(A) 0–1

(B) 0–10

(C) 0–100

(D) 0–1000

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49. 'NIKSHAY' software is used for tracing

(A) high-risk pregnancy

(B) tuberculosis

(C) AIDS

(D) high-risk newborn babies

50. Lepromin test is used for all of the following, ***except***

(A) for classifying leprosy

(B) for prognosis

(C) for assessing the immune status

(D) for diagnosing leprosy

51. Richest source of vitamin C is

(A) orange

(B) lemon

(C) tomato

(D) amla

52. Didactic method of teaching is

(A) group discussion

(B) panel discussion

(C) lecture method

(D) workshop

53. Headquarters of FAO is located in

(A) Geneva

(B) Rome

(C) New York

(D) Germany

54. In normal distribution curve

(A) Mean = 1 standard deviation

(B) Mean = Median = Mode

(C) Mean = 2 standard deviation

(D) Mean = 3 standard deviation

55. 'LaQshya' programme is

(A) to improve labour room quality

(B) to stop TB by 2025

(C) to provide free antenatal care

(D) to provide vasectomies and tubectomies

56. Human anatomical waste (BMW category 1) is disposed in which colour bag?

(A) Red

(B) Black

(C) Blue

(D) Yellow

57. Psychrometer is used to measure

(A) humidity

(B) air velocity

(C) cooling power of air

(D) air temperature

58. Period between possible time of detection and usual time of diagnosis is

(A) screening time

(B) generation time

(C) serial interval

(D) lead time

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59. Case fatality is used to measure

(A) incidence rate

(B) pathogenicity

(C) virulence

(D) prevalence rate

60. Which is ***not true*** about dengue fever?

(A) Vector is *Aedes aegypti*

(B) Tourniquet test is positive

(C) Serotype 4 is more dangerous

(D) Common arboviral infection

61. The commonest type of fingerprint is

(A) loop

(B) arch

(C) whorl

(D) composite

62. Postmortem staining will be cherry red in colour due to poisoning by

(A) arsenic

(B) cyanide

(C) carbon monoxide

(D) phosphorus

63. Chop wounds are caused by

(A) light sharp cutting weapons

(B) heavy sharp cutting weapons

(C) heavy blunt weapons

(D) pointed weapons

64. The main purpose(s) for holding medico-legal autopsy is/are

(A) to know the cause of death

(B) to know the time of death

(C) to know the mode of death

(D) All of the above

65. Most reliable sign of ante-mortem hanging is

(A) facial congestion

(B) dribbling of saliva from the angle of mouth

(C) contusion around ligature mark

(D) dilated pupils

66. Tactile hallucination is seen in

(A) subdural haemorrhage

(B) dhatura poisoning

(C) cocaine poisoning

(D) alcohol poisoning

67. Hippus is seen in poisoning by

(A) arsenic

(B) dhatura

(C) aconite

(D) mercury

68. Hatter's shakes are commonly seen in poisoning due to

(A) mercury

(B) lead

(C) copper

(D) alcohol

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69. Rule of Haase is concerned with the estimation of

(A) age of foetus

(B) stature

(C) degree of burn

(D) time passed since death

70. Caffey's syndrome is synonymous with

(A) homicidal hanging

(B) drunkenness

(C) epileptic psychosis

(D) battered baby syndrome

71. For counting of CO_4 + T_{cells} in AIDS, which of the following techniques is often used?

(A) *In-situ* hybridisation

(B) Polymerase Chain Reaction

(C) Flow cytometry

(D) Electron microscopy

72. Which of the following types of edema is characteristically dependent edema?

(A) Nephrotic edema

(B) Nephritic edema

(C) Pulmonary edema

(D) Cardiac edema

73. Prion proteins are implicated in the etiology of

(A) spongiform encephalopathy

(B) viral encephalitis

(C) perivenous encephalomyelitis

(D) progressive multifocal leucoencephalopathy

74. Which of the following is a test for mutagenicity?

(A) Kveim test

(B) Ames test

(C) Schilling's test

(D) Mantoux test

75. Amyloidosis is seen in which type of diabetes?

(A) Type I DM

(B) Type II DM

(C) Gestational diabetes

(D) MODY

76. Heberden's nodes are seen in

(A) osteoarthritis

(B) rheumatoid arthritis

(C) gout

(D) tuberculous arthritis

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77. The type of breast cancer seen in children is

(A) papillary carcinoma

(B) adenoid cystic carcinoma

(C) secretory carcinoma

(D) metaplastic carcinoma

78. The form of bilirubin which remains detectable in serum for sufficient time after recovery from the disease is

(A) biliverdin

(B) unconjugated bilirubin

(C) unbound conjugated bilirubin

(D) delta bilirubin

79. Barrett's oesophagus predisposes to the development of

(A) reflux oesophagus

(B) oesophageal varices

(C) squamous cell carcinoma

(D) adenocarcinoma

80. Sebaceous carcinoma occurs most commonly at

(A) axilla

(B) groin

(C) upper eyelid

(D) lower eyelid

81. The nerve passing through Guyon's canal is

(A) median nerve

(B) radial nerve

(C) ulnar nerve

(D) None of the above

82. Perineal method of pudendal nerve block is done through

(A) medial side of ischial tuberosity

(B) lateral side of ischial tuberosity

(C) vagina

(D) None of the above

83. Nervus hesitans is

(A) superficial fibular nerve

(B) deep fibular nerve

(C) tibial nerve

(D) saphenous nerve

84. Barr body positive male is found in

(A) Turner syndrome

(B) Down syndrome

(C) Triple X syndrome

(D) Klinefelter syndrome

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85. The term 'right coronary artery dominance' refers to

(A) coronary artery giving the posterior interventricular (descending) branch

(B) artery giving right anterior atrial ramus

(C) artery giving conus branch

(D) artery giving branch to sino-auricular node

86. Aneurysm of arch of aorta may affect voice because

(A) it may involve right recurrent laryngeal nerve

(B) it may involve left recurrent laryngeal nerve

(C) it may affect superior laryngeal nerve

(D) it may affect internal laryngeal nerve

87. The nerve which is called the 'eye of the hand', is

(A) radial nerve

(B) ulnar nerve

(C) median nerve

(D) posterior interosseous nerve

88. Which one is ***not*** related to the boundary of Calot's triangle?

(A) Cystic duct

(B) Cystic vein

(C) Cystic artery

(D) Common hepatic duct

89. Which extrinsic muscle of eyeball is supplied by trochlear nerve?

(A) Rectus lateralis

(B) Inferior oblique

(C) Superior oblique

(D) Inferior rectus

90. Homonymous hemianopia is due to lesion in the area

(A) 17 of cerebral hemisphere of opposite side

(B) 17 of cerebral hemisphere of same side

(C) 19 of cerebral hemisphere of same side

(D) 19 of cerebral hemisphere of opposite side

91. The colour of the eye is due to

(A) sclera

(B) cornea

(C) pupil

(D) iris

92. The part of the brain, which is absolutely essential for life, is

(A) cerebral cortex

(B) basal ganglia

(C) cerebellum

(D) reticular formation

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93. The fastest frequency of EEG wave is

(A) D-wave

(B) β-wave

(C) θ-wave

(D) δ-wave

94. Juxtamedullary nephron in the kidney is what percentage of total nephrons?

(A) 15

(B) 30

(C) 60

(D) 80

95. The most common cause of secondary hypertension is

(A) renal disease

(B) thyrotoxicosis

(C) oral contraceptive pills

(D) pheochromocytoma

96. Jaundice is defined as

(A) increase in the level of S bilirubin above 1 mg/dL

(B) passage of high coloured urine

(C) yellow discolouration of skin, eye and other body tissues

(D) excessive accumulation of bilirubin in the plasma and tissue fluids

97. In an average young adult male, _____ % is fat.

(A) 7

(B) 15

(C) 18

(D) 25

98. More than 90% of Foetal Haemoglobin (HbF) is normally replaced by Adult Haemoglobin (HbA)

(A) soon after birth

(B) 1–2 months after birth

(C) 3 months after birth

(D) 4 months after birth

99. Blood pH range, that is compatible with life, is

(A) 7·4 ± 0·5

(B) 6·9–7·7

(C) 6·7–7·9

(D) 4·5–6·00

100. The amount of saliva secreted per day is

(A) 400 ml to 500 ml

(B) 800 ml to 1000 ml

(C) 1200 ml to 1500 ml

(D) 1800 ml to 2000 ml

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