

# **BABA FARID UNIVERSITY OF HEALTH SCIENCES, FARIDKOT**

**Medical Officer under Department of Health & Family  
Welfare, Govt. of Punjab**

QUESTION BOOKLET NO

OMR ANSWER SHEET NO

ROLL NO:

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IMPRESSION OF THE CANDIDATE

FULL SIGNATURE OF THE CANDIDATE

FULL SIGNATURE OF INVIGILATOR

FULL SIGNATURE OBSERVER

Time Allowed: 2 Hours (11:00 AM to 1:00 PM)

Maximum Marks: 100

1. Use BLACK FINE TIP BALL PEN only. Use of pencil is not allowed.
2. Write your Roll number on the OMR answer-sheet and also on the question-booklet only in the space provided for the purpose and at no other place in the question booklets and Answer-sheet
3. Enter the Question Booklet Set and Number on the OMR Answer-sheet and also darken the corresponding bubbles with BLACK FINE TIP BALL PEN.
4. Do not put any marks anywhere in the Question booklet /on the OMR Answer-sheet.
5. **There are 100 objective type questions in all of 1 Mark each.** Before attempting the questions, check that the Question-booklet is complete. In case any question/part of question or page is missing, inform the Centre Superintendent within 5 minutes of the start of the examination. After that no claim will be entertained.
6. **Each question is followed by four alternative responses listed as A), B), C) and D) out of which only one is correct / most correct. In case, all the ovals are left blank, there will be deduction of marks @ 0.25 mark for each such unattempted question. Fifth oval 'E' (introduced for security purpose) is to be darkened in case you do not want to attempt the question to avoid negative marking.**
7. To open the question booklet, remove the seal gently when asked to do so. Handover the OMR Answer-sheet to the officer on duty on the completion of the time before you leave the examination hall.
8. **The candidates are permitted to carry his/her question booklet after completion of the examination but OMR Sheets are compulsory required to be deposited with the invigilator.**
9. A candidate who create disturbance of any kind or changes his/her seat or is found in possession of any paper possibility of any assistance to him/her or unfair means will be expelled from the examination by the Centre superintendent/Observer, whose decision shall be final. ("Expulsion" for this purpose would mean cancellation of the entire examination of the candidate).
10. THE CANDIDATES ARE NOT PERMITTED TO CARRY ANY TELECOMMUNICATION EQUIPMENT SUCH AS WATCH, CELLULAR PHONE, WIRELESS SET, SCANNER ETC. INSIDE THE EXAMINATION HALL.
11. For rough work, use only the blank space of the Question booklet.
12. The candidates will not be allowed to leave the examination hall during the examination.
13. Borrowing any material is not allowed.
14. The answer-sheet is designed for Computer evaluation. If the instructions are not followed properly, the candidate alone shall be responsible for the resultant loss.
15. Smoking/Refreshment shall not be allowed in the Entrance Test Centre/Hall.
16. Male candidates shall affix their Left Thumb Impression (LTI) while Female candidates shall affix Right Thumb Impression (RTI) at the prescribed place on the OMR answer sheet, Question Booklet and attendance sheet. The Centre superintendent shall also obtain and retain it for record.
17. The candidate must fill both the question booklet number and OMR answer sheet number on the attendance sheet.
18. No candidate shall be allowed to leave the centre before **1:00 PM.**

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The University of Chicago is a private research university in Chicago, Illinois. It was founded in 1837 and is one of the oldest and most prominent universities in the United States. The university is known for its rigorous academic standards and its commitment to research and scholarship. It has a long history of producing world-class scholars and leaders in various fields of study. The university's campus is located in the Hyde Park neighborhood of Chicago and is home to over 10,000 students and faculty members. The University of Chicago is a member of the Association of American Universities and is ranked among the top universities in the world by various international ranking agencies. The university's motto is "The Truth Shall Make You Free."

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1. Which of the following is not a feature of Right heart failure:

- a) Jugular venous distension
- b) Hepatomegaly
- c) Basal crepitations
- d) Ascites

2. Which of the following test is diagnostic of myasthenia gravis:

- a) Elevated serum Ach receptor binding antibodies
- b) Repetitive nerve stimulation test
- c) Positive edrophonium test
- d) MRI brain

3. Which of the following is drug of choice for prophylaxis of migraine?

- a) Propranolol
- b) Sumatriptan
- c) Domperidone
- d) Naproxen

4. In acute Pulmonary embolism, the most frequent ECG finding is:

- a) S1Q3T3 pattern
- b) P. Pulmonale
- c) Sinus tachycardia
- d) Right axis deviation

5. 70-year-old patient with background of long-standing diabetes mellitus was admitted with Periorbital swelling, fever and headache since one week. On evaluation he was found to have orbital cellulitis with extensive ulceration extending to the nasal bridge, no facial deficit were found. Surgical debridement histopathological specimen and CSF both revealed fungal hyphae. Appropriate drugs in this patient include -

- a) Fluconazole
- b) Itraconazole
- c) Amphotericin B
- d) Caspofungin

6. High anion gap metabolic acidosis is seen in all except

- a) Diabetic ketoacidosis
- b) Laxative abuse
- c) Biguanides
- d) Methanol poisoning

7. Which of the following is not a feature of Idiopathic thrombocytopenic purpura?

- a) Bleeding gums
- b) Splenomegaly
- c) Epistaxis
- d) Bruising over body

8. All are the causes of microcytic hypochromic anemia on a peripheral blood film except:

- a) Iron deficiency
- b) Sideroblastic anemia
- c) Thalassemia
- d) Haemolytic anemia

9. Which is true for cryptococcal meningitis in HIV patients:

- a) ZN staining is done for identification
- b) It is a bacterial infection of meninges
- c) India ink staining is done on CSF sample
- d) Antitubercular therapy is treatment of choice

10. Which of the following nutritional deficiencies is the triad of Dermatitis, Diarrhoea and Dementia?

- a) Vitamin B1
- b) Vitamin B6
- c) Vitamin B3
- d) Vit D Deficiency

11. Which of the following is not correct for Tungsten?

- a) It has an atomic number of 74
- b) The K-shell binding energy of tungsten is 69.5 KeV
- c) The mass number of tungsten is 284
- d) It is represented by the letter W

12. In a diagnostic X-ray tube:

- a) Anode is positive.
- b) Cathode is made of aluminium
- c) Cathode is positive
- d) X-rays are produced by thermionic emission

13. The attenuation of water on CT (Hounsfield units) is

- a) +100
- b) -100
- c) 0
- d) +1000

14. Which of the following is true for Thermo-luminescent detectors?

- a) Produce visible light when they interact with radiation
- b) Can measure radiation doses up to 100 Gy
- c) Have a low dynamic range
- d) Demonstrate a linear response over their operating range

15. Regarding MRI which of the following is true:

- a) Scanners using permanent magnets do not allow open design
- b) Superconducting electromagnets used in scanners must be kept at absolute zero
- c) Shim coils are used to improve field homogeneity
- d) One Tesla magnetic field is 200 times the Earth's magnetic field strength

16. The most common cause of neonatal sepsis in India is:

- a) Escherichia coli
- b) Staphylococcus aureus
- c) Group B Streptococcus
- d) Klebsiella pneumoniae

17. In the management of respiratory distress syndrome (RDS) in preterm infants, which of the following is most commonly used for lung maturation?

- a) Surfactant
- b) Oxygen therapy
- c) Continuous Positive Airway Pressure (CPAP)
- d) Corticosteroids

18. The best parameter for assessing adequate growth in a 6-month-old infant is:

- a) Length
- b) Weight
- c) Head circumference
- d) Chest circumference

19. Which of the following reflexes normally disappears by 6 months of age?
- Moro reflex
  - Babinski reflex
  - Palmar grasp reflex
  - Rooting reflex
20. Failure to thrive in a child is most commonly associated with:
- Cystic fibrosis
  - Cardiac anomalies
  - Malnutrition
  - Tuberculosis
21. A low-birth-weight (LBW) infant is defined as a baby born with a birth weight less than:
- 2000 grams
  - 2500 grams
  - 3000 grams
  - 3500 grams
22. Which of the following is the gold standard for the diagnosis of congenital hypothyroidism?
- TSH levels
  - Thyroid ultrasound
  - Serum free T4
  - T3 resin uptake test
23. At what age do infants typically double their birth weight?
- 3 months
  - 6 months
  - 9 months
  - 12 months
24. Which of the following vitamins is recommended at birth for all neonates to prevent hemorrhagic disease of the newborn?
- Vitamin D
  - Vitamin K
  - Vitamin A
  - Vitamin E
25. The most reliable marker for fetal lung maturity in a preterm pregnancy is:
- Amniotic fluid bilirubin
  - Lecithin-to-sphingomyelin ratio
  - Amniotic fluid volume
  - Fetal breathing movements
26. A 13-year-old overweight patient presents to the emergency department with left knee pain and is lying in bed with his hip slightly flexed. He is found on imaging to have a severe slipped capital femoral epiphysis. If his leg is not manipulated for imaging, in what abnormal position is his left hip most likely to appear on an anteroposterior pelvic radiograph?
- Internal rotation
  - External rotation
  - Extension
  - Abduction
27. The function of which of the following structures is to resist internal tibial rotation with the knee in full extension?
- Anterior cruciate ligament
  - Iliotibial band
  - Popliteus tendon
  - Posterior oblique ligament
28. Which of the following patients is most likely to have a fibroblastic proliferative process as a cause for their shoulder complaints?
- 65-year-old man with giant cell arteritis and bilateral shoulder pain and stiffness.
  - 40-year-old man with a history of throwing activity who now has acute shoulder pain.
  - 50-year-old woman with hypothyroidism and loss of both active and passive shoulder motion.
  - 65-year-old woman with ulnar drift of the fingers and shoulder pain and stiffness
29. All of the following muscles are a part of rotator cuff except:
- Supraspinatus.
  - Infraspinatus.
  - Deltoid
  - Subscapularis
30. Medial meniscus is more vulnerable to injury because of?
- Its fixity to tibial collateral ligament
  - its semicircular shape
  - action of adductor magnus
  - its attachment to fibrous capsule
31. An elderly diabetic patient comes to ent opd with right sided excruciating earache. He has right sided facial palsy since 2 days and ear discharge since 5 days. Granulations are seen in external auditory canal. What is your probable diagnosis?
- Cholesteatoma
  - Chronic suppurative otitis media
  - Malignant otitis externa
  - Otitis externa haemorrhagica
32. What is the gold standard for diagnosing obstructive sleep apnea?
- Nasopharyngoscopy
  - Laryngoscopy
  - Polysomnography
  - Acoustic rhinometry
33. Which cranial nerve is primarily involved in the sensation of taste in the anterior two-thirds of the tongue?
- Vagus nerve
  - Glossopharyngeal nerve
  - Trigeminal nerve
  - Facial nerve
34. Which condition is characterized by the sensation of a foreign body in the throat, without any physical obstruction?
- Dysphagia
  - Laryngitis
  - Globus pharyngeus
  - Pharyngitis

35. A 50-year-old man presents with persistent nasal congestion, postnasal drip, and anosmia for the past 6 months. On nasal endoscopy, multiple grayish, grape-like masses are seen in both nasal cavities. What is the most likely diagnosis?
- Nasal polyps
  - Deviated nasal septum
  - Chronic sinusitis
  - Allergic rhinitis
36. The most common site of implantation in ectopic pregnancy is:
- Cervix
  - Ovary
  - Fallopian tube
  - Abdominal cavity
37. Which of the following is the most common cause of secondary amenorrhea in reproductive-aged women?
- Pituitary tumor
  - Polycystic ovarian syndrome (PCOS)
  - Asherman's syndrome
  - Premature ovarian failure
38. What is the ideal time for a screening ultrasound for fetal anomalies during pregnancy?
- 8–12 weeks
  - 12–16 weeks
  - 18–20 weeks
  - 24–28 weeks
39. Which of the following is NOT a criterion for diagnosing gestational hypertension?
- Blood pressure >140/90 mm Hg after 20 weeks of gestation
  - Proteinuria >300 mg/24 hours
  - No previous history of hypertension
  - Blood pressure normalizes postpartum
40. The most common cause of recurrent miscarriage in the first trimester is:
- Uterine anomalies
  - Chromosomal abnormalities
  - Antiphospholipid syndrome
  - Incompetent cervix
41. Which type of ovarian tumor is most commonly associated with pseudomyxoma peritonei?
- Serous cystadenoma
  - Mucinous cystadenoma
  - Germ cell tumor
  - Endometrioma
42. The definitive treatment for molar pregnancy is:
- Chemotherapy
  - Suction evacuation
  - Hysterectomy
  - Methotrexate
43. What is the earliest sign of magnesium sulfate toxicity in preeclampsia management?
- Loss of deep tendon reflexes
  - Respiratory depression
  - Decreased urine output
  - Hypotension
44. In the active management of the third stage of labor, which drug is commonly used?
- Ergometrine
  - Misoprostol
  - Oxytocin
  - Prostaglandin E2
45. The primary hormone responsible for maintaining pregnancy is:
- Estrogen
  - Progesterone
  - Luteinizing hormone
  - Human chorionic gonadotropin (hCG)
46. The following are endogenous eczema except
- Atopic dermatitis
  - Nummular eczema
  - Diaper dermatitis
  - Stasis eczema
47. 20% monobenzyl ether of hydroquinone is used in the treatment of
- Segmental Vitiligo
  - Universal Vitiligo
  - Mucosal Vitiligo
  - Acrofacial Vitiligo
48. Spaghetti and meatball" appearance is seen in
- Piedra
  - Tinea nigra
  - P. Versicolor
  - Chromoblastomycosis
49. Stage 1 of acne is
- Severe pustules and nodules
  - Few pustules with scars
  - Few comedones mainly
  - Pustules with comedones
50. The following is not the feature of steroidal acne
- Absence of comedone
  - Absence of nodulocystic lesion
  - Polymorphous eruption
  - Occasional pruritus
51. Café coronary is a term which describes:
- Coronary heart attack occurring in a café
  - Choking by a bolus of food
  - Hemorrhage in the corona radiata
  - Coronary embolism with café au lait
52. In judicial hanging, fracture of vertebral column is usually seen between:
- C1 and C2
  - C2 and C3
  - C4 and C5
  - C5 and C6

53. Compressing the neck by the bend of the elbow is:
- Mugging
  - Bansdola
  - Burking
  - Choking
54. Tache noire refers to
- Postmortem staining
  - Flaccidity of eyeball
  - Wrinkled dusty sclera
  - Maggot growth
55. Perjury is
- Group of juries
  - Willful utterance of falsehood under oath
  - Criminal negligence
  - A document issue by court
56. Dementia is characterised by all except
- Memory and learning deficiency
  - Impaired consciousness
  - Language dysfunctions
  - Executive dysfunctions
57. Which of the following drugs does not seem to produce tolerance
- Opioids
  - Cannabis
  - Alcohol
  - None of the above
58. Thought broadcasting is characteristic feature of
- Depression
  - Anxiety
  - Phobia
  - Schizophrenia
59. Most Common Delusions In Schizophrenia Are
- Delusions of persecution
  - Delusions of bodily control
  - Delusions of poverty
  - Delusions of reference
60. Which of the following drugs is a typical antipsychotic
- Olanzapine
  - Amisulpride
  - Risperidone
  - Haloperidol
61. Which of the following conditions is associated with posterior staphyloma
- Pathological myopia
  - Retinoblastoma
  - Chemical injury
  - Sympathetic ophthalmia
62. Fundus fluorescein angiography done in patient following cataract surgery shows a flower petal pattern. What is he most likely suffering from
- Macular hole
  - Cystoid macular edema
  - Central serous retinopathy
  - Macular degeneration
63. Placido disc is used for diagnosis of which of the following conditions
- Uveitis
  - Keratoconus
  - Retinoblastoma
  - Retinal detachment
64. Satellite nodules are seen in
- Fungal corneal ulcer
  - Tuberculosis
  - Sarcoidosis
  - Viral ulcer
65. An elderly male with heart disease presents with sudden loss of vision in one eye; examination reveals cherry red spot; the diagnosis is
- Central retinal vein occlusion
  - Central retinal artery occlusion
  - Amaurosis fugax
  - Acute ischemic optic neuritis
66. Bacterial detection is performed on which of the following blood products?
- Granulocytes
  - Red blood cells
  - Plasma
  - Platelets
67. TACO is commonly associated with which one of the following?
- Anti-HNA antibodies
  - Leukopenia
  - Electrocardiographic changes
  - Pulmonary edema
68. RBCs preserved in CPD and CPDA-1 can be stored at 1-6°C for how many days, respectively?
- 21 and 35
  - 28 and 35
  - 28 and 42
  - 35 and 42
69. The HLA genes are located on which chromosome?
- 2
  - 4
  - 6
  - 8

70. Massive Transfusion in adults is defined as transfusion of
- 10 or more PRBC units in 24 hrs
  - 4 PRBC units in 1 hr
  - Replacement of one entire blood volume within 24 hrs
  - All of the above

71. Mondor's disease is superficial thrombophlebitis of:
- Axillary vein
  - Long saphenous vein
  - Veins of the breast
  - Internal mammary vein

72. Level II axillary lymph node are located
- Lateral to pectoralis major and minor
  - Behind pectoralis minor
  - Medial to pectoralis minor
  - Superomedial to pectoralis major

73. Toxic megacolon is seen in:
- Crohn's disease
  - Ulcerative colitis
  - Diverticulosis
  - Intussusception

74. 'Peau-d-orange' in cancer breast is due to:
- Arterial obstruction
  - Blockage of subdermal lymphatics
  - Invasion of skin with malignant cells
  - Secondary infection

75. Lateral aberrant thyroid refers to:
- Congenital thyroid abnormality
  - Metastatic foci from primary in thyroid
  - Struma ovarii
  - Lingual thyroid

76. Sentinel lymph node biopsy was first done in:
- Carcinoma breast
  - Carcinoma colon
  - Carcinoma penis
  - Melanoma

77. Which of the following gene defects is associated with development of medullary carcinoma of thyroid?

- RET proto-oncogene
- FAP gene
- Rb gene
- BRCA-1 gene

78. Sistrunk's operation is done in:

- Parotid tumor
- Thyroglossal fistula
- Thyroglossal cyst
- Branchial fistula

79. The most common site of Extra Adrenal Pheochromocytoma is:

- Organ of Zuckerkandl
- Bladder
- Filum terminale
- Celiac plexus

80. During surgical exploration for hydatid cyst of the liver, any of the following agents can be used as scolicidal agent Except:

- Hypertonic sodium chloride
- Formalin
- Cetrimide
- Povidone iodine

81. Parkinson plus syndrome occurs in association with, except one of the following:

- Progressive supranuclear palsy
- Alzheimer's disease
- Epilepsies
- Frontotemporal dementia

82. A patient diagnosed with Parkinson disease (PD) is prescribed levodopa. The medication therapy can be considered effective when the healthcare provider assesses improvement in which of the following?

- Hearing
- Visual acuity
- Appetite
- Urinary frequency

83. A 70-year-old patient was just diagnosed with Parkinson disease and was placed on carbidopa/L-dopa 10/100 three times a day by his primary care physician. The patient has been complaining of nausea and stomach upset as well as light headness since starting the medication and wants to stop the medication. The best recommendation is to

- stay on the medicine and the side effects will go away.
- change to carbidopa/L-dopa 25/100 three times a day.
- change to pramipexole 0.5 mg three times a day.
- stop the medication and never take it again.

84. The macrolide antibiotics have bacteriostatic and bactericidal effects by binding with :

- 30 S ribosomal subunit of RNA
- 50 S ribosomal subunit of RNA
- 70 S ribosomal subunit of DNA
- 50 S ribosomal subunit of DNA

85. Syphilis is a venereal disease of ancient times caused by *Treponema pallidum*. All of the following drugs can be prescribed to have complete recovery except:
- Tetracycline
  - Benzyl-penicillin
  - Ceftriaxone
  - Sulphadiazine
86. Dengue shock syndrome is characterized by the following except
- Hepatomegaly
  - Pleural effusion
  - Thrombocytopenia
  - Decreased hemoglobin
87. The most sensitive index of recent transmission of malaria in a community is.
- Spleen rate
  - Infant parasite rate
  - Annual parasite incidence
  - Slide positivity rate
88. Case detection in STDs is done by all except
- Screening
  - Contact tracing
  - Cluster testing
  - Notification
89. Following dietary changes are advised to reduce prevalence of coronary heart disease except
- Increased complex carbohydrate intake
  - Saturated fat intake less than 10% of total energy intake
  - Salt intake less than 20g/day
  - Reduce fat intake to 20-30% of total energy intake
90. The most common cancer, affecting both males and females of the world, is:
- Cancer of the pancreas
  - Buccal mucosa cancer
  - Lung cancer
  - Colo-rectal cancer
91. Under AFP Surveillance, follow-up examination is done after
- 15 days of onset of paralysis
  - 33 days of onset of paralysis
  - 60 days of onset of paralysis
  - 93 days of onset of paralysis
92. Integrated Management of Neonatal and Childhood Illness (IMNCI) includes all except
- Malaria
  - Infections
  - Diarrhoea
  - Tuberculosis
93. All of the following are given global prominence in the VISION 2020 goals, except
- Refractive errors
  - Cataract
  - Trachoma
  - Glaucoma
94. Complete family size is indicative of:
- Total fertility rate
  - Gross fertility rate
  - General fertility rate
  - Net-reproduction rate
95. Pearl-index' for accidental pregnancies failure per:
- 10 women-years of exposure
  - 12 women-years of exposure
  - 100 women – years of exposure
  - 120 women –years of exposure
96. A 15 year old female is on antimalarials. After first dose of drug, the child develops pallor, jaundice and dark coloured urine. PBF shows polychromasia, fragmented RBC's and bite cells. What is your probable diagnosis:
- G6PD deficiency
  - Sickle cell anemia
  - Hereditary Spherocytosis
  - Trauma
97. 65 year old male comes to medicine OPD with complaint of lower back pain and generalized weakness. CBC of patient revealed anemia and bone marrow examination showed increase in plasma cells upto 40%. Diagnosis of multiple myeloma was made. Which of following is part of CRAB criteria.
- Calcium, RBC, abnormal plasma cells, blood cell count
  - Calcium, renal failure, anemia, bony lesions
  - CBC, retic count, anemia, bony lesions
  - Cancer, renal failure, anorexia, breathing difficulty
98. A 60 years old women suddenly lost consciousness, on awakening 1 hour later she could not speak. 2 months later CT brain showed cystic lesion of the brain. What is the most likely pathological change of the brain:
- Fat necrosis
  - Coagulative necrosis
  - Apoptosis
  - Liquefactive necrosis
99. A 50 year old man has chronic cough with fever for several months. The chest X-ray shows a diffuse reticulo-nodular pattern. Microscopically, on transbronchial biopsy there are focal areas of inflammation containing epithelioid cell granulomas. These findings are typical for which of the following type of hypersensitivity immunologic response:
- Type I
  - Type II
  - Type III
  - Type IV
100. Which of the following paraneoplastic syndromes is most commonly associated with lung carcinoma?
- Cushing syndrome
  - Hypercalcemia
  - Lambert-Eaton myasthenic syndrome
  - Polycythemia