

005/2018

Question Booklet
Alpha Code

A

Question Booklet
Serial Number

Total No. of Questions: 100

Maximum : 100 Marks

Time : 75 Minutes

INSTRUCTIONS TO CANDIDATES

1. The question paper will be given in the form of a Question Booklet. There will be four versions of question booklets with question booklet alpha code viz. A, B, C & D.
2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the question booklet.
3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
4. If you get a question booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your question booklet is un-numbered, please get it replaced by new question booklet with same alpha code.
6. The question booklet will be sealed at the middle of the right margin. Candidate should not open the question booklet, until the indication is given to start answering.
7. Immediately after the commencement of the examination, the candidate should check that the question booklet supplied to him contains all the 100 questions in serial order. The question booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
8. A blank sheet of paper is attached to the question booklet. This may be used for rough work.
9. **Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.**
10. Each question is provided with four choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball-Point Pen in the OMR Answer Sheet.
11. **Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.**
12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

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Maximum : 100 Marks

Time : 1 hour and 15 minutes

1. Which river in Kerala mentioned in Kautilya's "Arthashastra" ?
(A) Pampa (B) Bharathappuzha
(C) Achan kovilar (D) Periyar
2. The first newspaper in Malayalam "Rajyasamacharam" begin in
(A) Thalassery (B) Kozhikode
(C) Thiruvananthapuram (D) Kannur
3. The author of Sanskrit work "Mukundamala" is
(A) Rajashekara varma (B) Kulasekhara Alwar
(C) Sthanu Ravi (D) Raja Simhan
4. Name the social reformer held "Kannadi prathishta" first in South India
(A) Sree Narayana Guru (B) Chattambi Swamiakal
(C) Vaikunda Swamikal (D) Jyotirao Phule
5. Who is the first tarriance in Rashtrapathi Bhawan ?
(A) Lord Curzon (B) Lord Mount Batten
(C) Dr. Rajendra Prasad (D) Lord Irwin
6. The first child friendly police station in Kerala is
(A) Chirayinkeezhu (B) Ettumannur
(C) Kadavanthra (D) Harippad
7. Name the first editor of the Newspaper *Mathrubhumi* is
(A) K.P. Kesava Menon (B) P. Ramunni Menon
(C) K. Kelappan (D) C.H. Kunhappa
8. Among the following, who is not related to Malayalee Memorial ?
(A) C.V. Raman Pillai (B) Dr. Palpu
(C) G.P. Pillai (D) K.P. Sankara Menon
9. Who is the first women Judge in the High Court of India ?
(A) Fathima Beevi (B) Anna Chandi
(C) Akkamma Cherian (D) Annie Mascreen
10. Wagon Tragedy is in
(A) 1921 October, 10 (B) 1921 August, 20
(C) 1921 November, 12 (D) 1921 November, 10

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[P.T.O.]

11. Who is the minister of Local Self Government in the first E.M.S Ministry 1957 ?
(A) P. K. Chathan Master (B) K. R. GouriAmmam
(C) T. V. Thomas (D) C. Achutha Menon
12. The autobiography 'Jeevithapatha' is
(A) Joseph Mundassery (B) Sachidanandan
(C) Cherukad (D) Thakazhi
13. The magazine 'Keli' is related to
(A) Kerala Sahithya Acadamy
(B) Kerala Sahithya Pravarthaka Sahakarana Sangham
(C) Kerala Sangeetha Nataka Acadamy
(D) Kerala Lalithakala Acadamy
14. The Head Quarter of State Film Development Corporation.
(A) Thiruvananthapuram (B) Eranakulam
(C) Kozhikode (D) Kochi
15. Into how many parts, the Constitution of India has been divided ?
(A) 1 (B) 2
(C) 3 (D) 4
16. In which item P.U Chithra won the Gold medal in 2017 Asian Athletics Championship in Bhubaneswar
(A) 800 m race (B) 5000 m race
(C) 100 m race (D) 1500 m race
17. A Constitutional bench of Supreme Court consists of
(A) 7 Judges (B) 5 Judges
(C) 6 Judges (D) 4 Judges
18. The oldest Newspaper in Malayalam is
(A) Kerala Kaumudi (B) Malayala Manoram
(C) Mathrubhumi (D) Deepika
19. World Blood Donor Day is
(A) June 12 (B) July 14
(C) June 14 (D) June 20
20. Name the Malayalee who addressed the presidential speech at Amaravarthi session of INC held in 1897.
(A) John Mathai (B) Sir C. Sankaran Nair
(C) Mannath Padmanabhan (D) E.M.S.

21. The resolution of an Electron microscope is expressed in
(A) Millimeters (B) Micrometers
(C) Nanometers (D) Centimeters
22. Which of the following is not a flammable chemical ?
(A) Ether (B) Xylol
(C) Alcohol (D) H₂O₂
23. Which of the following is not a carcinogen
(A) O-toludene (B) Picric acid
(C) Selenite (D) β naphthyl amine
24. The temperature required for many of the clinical investigations to be done in a laboratory incubator in degree Celsius is
(A) 22 (B) 42
(C) 56 (D) 37
25. Which of the following not comes under moist heat sterilization ?
(A) Hot air oven (B) Autoclave
(C) Pasteurization (D) Tyndalisation
26. Disposable plastics are sterilized by
(A) Alcohol (B) Ethylene oxide
(C) Gluteraldehyde (D) Chlorine
27. A normal solution contains
(A) Gram equivalent weight per litre
(B) Molecular weight of solute in grams per litre
(C) Weight per unit volume
(D) None of the above
28. Average urine output of an adult per day
(A) 30 – 60 ml (B) 500 – 600 ml
(C) 800 – 1400 ml (D) 1000 – 2000 ml

29. Which of the following is not found in normal urine ?
(A) Creatinine (B) Uric acid
(C) RBC (D) Glucose
30. Which one of the following is used to test ketone bodies ?
(A) Rothera's test (B) Diazo test
(C) Benzedene test (D) Ehrlich's test
31. Normal VMA level is
(A) Upto 9 mg/24 hour (B) 8 –18 mg/ 24 hour
(C) 0.2 – 0.5 gm/24 hour urine (D) 100 – 250 mg/24 hour
32. Normal GFR rate is
(A) 500 – 800 ml/unit (B) 1000 – 1500 ml/unit
(C) 100 – 130 ml/unit (D) None of the above
33. Bloody stool with pus and mucous seen in the following condition except
(A) Ulcerative colitis (B) Mucous colitis
(C) Bacillary dysentery (D) Carcinoma of colon
34. In Amoebiasis, the cyst of *Entamoeba histolytica* identified from
(A) Liver abscess (B) Stool
(C) Lung abscess (D) All the above
35. Which of the following parasite has no cystic stage ?
(A) *Giardia lamblia* (B) *Balantidium coli*
(C) *Trichomonas vaginalis* (D) *E. histolytica*
36. Multiple ring forms are seen in which type of malaria ?
(A) *Plasmodium malariae* (B) *Plasmodium vivax*
(C) *Plasmodium falciparum* (D) *Plasmodium ovale*

37. LD bodies are seen in the Reticulo endothelial system of
(A) Human (B) Rudevid bug
(C) Tsetse fly (D) Sand fly
38. Which of the following parasitic ova is not bile stained ?
(A) *Ascaris lumbricoides* (B) *Ancylostoma duodenale*
(C) *Trichuris trichura* (D) *Tinea saginata*
39. The causative agent of “Colabar swelling”
(A) *W. bancrofti* (B) *Brugia malayi*
(C) *Loa loa* (D) *Oncocercus volvulus*
40. Night blood sample is collected for the diagnosis of
(A) Malaria (B) Filaria
(C) *Trypanosoma* (D) *Leishmania*
41. Casoni’s test is used for the diagnosis of
(A) Hydatid disease (B) Leishmaniasis
(C) Malaria (D) Filaria
42. Which one of the parasitic ova seen in urine ?
(A) *Schistosoma haematobium* (B) *Fasciola hepatica*
(C) *Paragonimus westermani* (D) *Clonorchis sinensis*
43. The ratio of anti-coagulant and blood used for ESR test is
(A) 1 : 2 (B) 1 : 4
(C) 1 : 8 (D) 1 : 16
44. Normal value of haemoglobin for an adult
(A) 4 – 6 gm% (B) 6 – 8 gm%
(C) 8 – 10 gm% (D) 12 – 15 gm%

45. Normal platelet count is
(A) 4 – 5 million/cmm (B) 4000 – 11000/cmm
(C) 1.5 – 3.5 lakhs/cmm (D) 200/cmm
46. Glass wares containing organic matter are treated with
(A) 5% HCl (B) 2% detergent
(C) 2% phenol (D) Potassium dichromate
47. Which of the following is not a Romanowsky stain ?
(A) Leishman stain (B) Wright stain
(C) Giemsa stain (D) Grams stain
48. The main site of haemopoiesis takes place in
(A) Liver (B) Spleen
(C) Bone marrow (D) Lymphoid tissue
49. Which of the following condition, the RBCs are microcytic & hypochromic
(A) Pernicious anaemia (B) Haemolytic anaemia
(C) Iron deficiency anaemia (D) Megaloblastic anaemia
50. Eosinophilia seen in
(A) Allergic conditions (B) Parasitic infections
(C) Hodgkin's lymphoma (D) All the above
51. LE cells are not seen in the following condition :
(A) Infectious mononucleosis (B) Systemic lupus erythematosus
(C) Rheumatoid arthritis (D) Collagen disorders
52. Which of the following condition shows Bence-Jones protein in urine ?
(A) Acute myeloid Leukemia (B) Malignant lymphoma
(C) Multiple myeloma (D) Chronic myeloid Leukemia

53. APTT increased in the following condition :
- (A) Haemophilia (B) Vitamin K deficiency
(C) Liver diseases (D) All the above
54. ABO grouping discovered by
- (A) Robert Koch (B) Karl Landsteiner
(C) Paul Ehrlich (D) Antony Van Levenhoek
55. In a blood bank CPD anti-coagulated blood can be stored at 2 – 8 degree celcius for
- (A) 2 days (B) 14 days
(C) 28 days (D) 45 days
56. CSF protein fractions are evaluated by
- (A) Colloidal gold test (B) Pandy's test
(C) Rose Jone's test (D) Protein electrophoresis
57. In pregnancy, the peak level of HCG in urine seen at
- (A) 4 weeks of gestation (B) 6 weeks of gestation
(C) 10 weeks of gestation (D) 14 weeks of gestation
58. Cushing syndrome is due to
- (A) excess production of thyroid hormone
(B) excess production of Glucocorticoides
(C) excess production of FSH
(D) excess production of growth hormone
59. In obstructive jaundice, which of the following serum enzyme level elevated
- (A) SGOT (B) SGPT
(C) ALP (D) All the above
60. Normal fasting blood glucose level is
- (A) 50 – 80 mg/dl (B) 70 – 110 mg/dl
(C) 120 – 160 mg/dl (D) 180 – 220 mg/dl

61. Serum uric acid level increased in
(A) Gout (B) Renal failure
(C) Addison's disease (D) Rickets
62. Which of the following elevated enzyme level is not a marker of myocardial infarction ?
(A) SGOT (B) SGPT
(C) LDH (D) Creatine kinase
63. Increased level of PCO₂ seen in
(A) Hypoxia (B) Obstructive lung disease
(C) Polycythemia (D) Anaemia
64. TORCH infections are best analysed by
(A) Capture ELISA (B) Competitive ELISA
(C) Immuno capture ELISA (D) Streptavidin-Biotin ELISA
65. The best diagnostic assay for infections and autoimmune disease parameters by
(A) EIA
(B) RIA
(C) Fluorescence immuno assay
(D) Chemiluminescence assay
66. Which of the following steps are included in a PCR cycle ?
(A) Denaturation (B) Annealing
(C) Extension (D) All the above
67. Which of the following serological test is specific test for Syphilis ?
(A) TPHA (B) RPR
(C) TRUST (D) VDRL
68. WIDAL test is for the serological diagnosis of
(A) Enteric fever (B) Typhoid fever
(C) Para typhoid fever (D) Brucellosis

69. The vector which transmit Dengue fever
(A) Culex mosquito (B) Anophilus mosquito
(C) Aedes mosquito (D) Mansonia mosquito
70. Which of the following is not a rapid diagnostic test ?
(A) Dengue check WB (B) Leptockeck WB
(C) PARA MAX-3 (D) Brucel-RB
71. Significant titre of ASO test by latex agglutination is
(A) >200 IU/ml (B) <200 IU/ml
(C) >10 IU/ml (D) <10 IU/ml
72. Route of transmission of Hepatitis A virus is by
(A) Contaminated food and water
(B) Blood transfusion
(C) Sexual contact
(D) Air
73. Opportunistic infections associated with AIDS includes
(A) Candidiasis (B) Cryptococcosis
(C) Cryptosporidiosis (D) All the above
74. Which of the following fixative contains picric acid ?
(A) Bouin's fluid (B) Carnoy's fluid
(C) Zenker's fluid (D) Lugol's solution
75. Frozen sections are obtained from
(A) Histokinate (B) Cryostat
(C) Microtome (D) None of the above
76. The stain used to detect gycogen by
(A) Masson Fontana stain (B) Mucicarmin
(C) PAS (D) H and E stain

77. The most common staining technique used in cytology is
(A) Giemsa stain (B) Papanicolaou stain
(C) H and E stain (D) Shorr's stain
78. Tubercle bacillae identified by
(A) Robert Koch (B) Louis Pasteur
(C) Edward Jenner (D) Joseph Lister
79. Ziehl - Neelsen stain is used for demonstration of
(A) Streptococci (B) Anthrax Bacilli
(C) Mycobacteria (D) Spirochaetes
80. Triple sugar iron agar contains
(A) Glucose, Maltose, Sucrose (B) Glucose, Mannitol, Sucrose
(C) Glucose, Lactose, Sucrose (D) Glucose, Lactose, Maltose
81. Blood agar is
(A) Enriched media (B) Enrichment media
(C) Selective media (D) Differential media
82. RCM is used for the primary cultivation of
(A) Tubercle bacilli (B) Clostridium Perfringens
(C) Vibrio cholerae (D) Haemophilus
83. Which of the following sensitivity test is used to diagnose Group A Streptococci isolate
(A) Novobiosin (B) Optochin
(C) Bacitracin (D) Polymixin
84. Elek's test is used for the invitro toxigenicity of
(A) Coryne bacteria diphtheriae
(B) Haemophilus influenzae
(C) Group B Streptococcus
(D) Clostridium Perfringens

85. Which of the following bacteria shows swarming growth ?
(A) Salmonella (B) Shigella
(C) Pseudomonas (D) Proteus
86. Example of dimorphic fungi
(A) Cryptococcus neoformans (B) Histoplasma Capsulatum
(C) Candida albicans (D) Nocardia
87. Mantoux test is for the diagnosis of
(A) Tuberculosis (B) Diphtheria
(C) Echinococcus (D) Toxoplasma
88. Negative staining is used for the demonstration of
(A) Capsule (B) Flagella
(C) Cell wall (D) None of the above
89. The basic principle behind spectrophotometer is
(A) Beer's law (B) Lambert's law
(C) Beer- Lambert law (D) None of the above
90. Which of the following Immunoglobulin can cross the placenta
(A) IgG (B) IgM
(C) IgA (D) IgE
91. Which of the following condition shows 48XXY chromosomes ?
(A) Down syndrome (B) Turner's syndrome
(C) Klinefelter's syndrome (D) All the above
92. Negri bodies are demonstrated for the diagnosis of
(A) Hepatitis (B) HIV
(C) Polio (D) Rabies

93. Electrophoretic separation of major protein is known as
(A) Western blotting (B) Southern blotting
(C) Northern blotting (D) None of the above
94. Which of the following is non-nucleic acid based diagnostic method ?
(A) PCR (B) LCR
(C) RFLP (D) GLC
95. Monoclonal antibodies are produced from
(A) Myeloma cells (B) Lymphoma cells
(C) Hybridoma cells (D) All the above
96. Which of the following is not an automated culture system ?
(A) BACTEC (B) BaCT/ALERT
(C) ESP system (D) Casteneda method
97. Osmotic fragility test is used for the diagnosis of
(A) Sickle cell anaemia (B) Thalassemia
(C) Spherocytosis (D) Megaloblastic anaemia
98. Haemolytic disease of newborn is due to
(A) ABO incompatibility (B) Rh incompatibility
(C) Leucocyte incompatibility (D) None of the above
99. Which of the following automated system is introduced recently ?
(A) Continuous flow analyser (B) Discrete analyser
(C) Centrifugal analyser (D) None of the above
100. Biuret method is used for determination of
(A) Protein (B) Sugar
(C) Urea (D) Cholesterol

SPACE FOR ROUGH WORK

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