

017/2018

Question Booklet  
Alpha Code

A

Question Booklet  
Serial Number

Total Number of Questions : 100

Time : 75 Minutes

Maximum Marks : 100

### 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.



**017/2018**

1. Which was the first Indian Bank to introduce the Voluntary retirement Scheme ?  
(A) State Bank of India (B) Punjab National Bank  
(C) ICICI (D) Lord Krishna Bank
2. Which State is known as the Jewel of India ?  
(A) Manipur (B) Assam (C) Kerala (D) Kashmir
3. Indian Newspaper day is observed on :  
(A) January 28 (B) January 27 (C) January 26 (D) January 29
4. Who was called the "Lincoln" of Kerala for steering socio-economically and educationally backward communities to the forefront ?  
(A) Pandit Karuppan (B) Vakkom Maulavi  
(C) Chattampi Swamikal (D) Narayana Guru
5. The original constitution had :  
(A) 10 parts, 5 schedules 310 Articles (B) 12 parts, 5 schedules 309 Articles  
(C) 22 parts, 8 schedules 395 Articles (D) 21 parts, 8 schedules 359 Articles
6. In Which Branch of Medicine Chattampi Swamikal acquired knowledge :  
(A) Ayurveda (B) Unani (C) Siddha (D) Homeopathy
7. Which part of the Constitution of India is related to the 'Citizenship' ?  
(A) III (B) II (C) I (D) IV
8. The Autobiography of India's first female judge, Anna Chandy :  
(A) Atma nombaram (B) Ente Jeevitham  
(C) EnteKatha (D) Atmakatha
9. The Venue of Paliyam Sathyagraha :  
(A) Chendamangalam (B) Vakkom  
(C) Guruvayur (D) Pampady
10. Kuriakose Alias Chavara was beautified in :  
(A) 1985 (B) 1987 (C) 1986 (D) 1988
11. The first Editor of 'Mithavadi' :  
(A) C.K. Krishnan (B) Moorkoth Kumaran  
(C) Kumaran Asan (D) P. Kesavan

12. In which year was the Mid-day Meals programme implemented ?  
 (A) 2005 (B) 2003 (C) 2006 (D) 2004
13. Which Article of the Indian Constitution was interpreted as discriminatory against Jammu and Kashmir Women ?  
 (A) Article 34 (B) Article 35A (C) Article 370 (D) Article 380
14. The Author of 'Kavi Bharatham' :  
 (A) Kodungaloor Kunjikuttan Thampuram  
 (B) Chandu Menon  
 (C) Kesav Dev  
 (D) Kerala Varma Valiya Koil Thampuran
15. The English Philanthropist who introduced the first education centre in Kerala :  
 (A) Herman Gundart (B) Rev. Meed  
 (C) Dr. Burnadeen Bachinelli (D) Edward Brinnon
16. The Sculptor of the Statue of Ayyankali at Vellayambalam in Thiruvananthapuram :  
 (A) Ezra David (B) Kanai Kunju Raman  
 (C) Balan Nambiar (D) V.J. Robert
17. The date of the Temple Entry Proclamation in Travancore :  
 (A) 12 November 1928 (B) 12 November 1947  
 (C) 12 November 1936 (D) 12 November 1951
18. The social reformer of Kerala who opened his family temple for everyone, irrespective of caste distinction :  
 (A) E.V. Ramaswami (B) Narayana Guru  
 (C) Mannathu Padmanabhan (D) Ayya Vaikundar
19. Who was the president of the first exclusive women session of the NSS in 1929 ?  
 (A) Lalitha Prabhu (B) Kuttimalu Amma  
 (C) K. Devayani (D) Thottakkattu Madhavi Amma
20. The literary figure and social reformer who was awarded the Kendra Sahithya Akademi Award in 1976 and Kerala Sahithya Academy Award in 1977 :  
 (A) O.N.V. Kurup (B) Lalithambika Antherjanam  
 (C) Thakazhi Sivasankara Pillai (D) Balamani Amma
21. As per the open vial policy of Government of India false statement :  
 (A) Any open vial returned from the field has to be used within 48 hours from the date of opening  
 (B) Vaccine should not have been frozen  
 (C) Only applicable to Hepatitis - B, OPV, DPT, Pentavalent, TT and IPV  
 (D) VVM should be stable

22. The cut-off BMI for obesity as suggested by WHO for Asian community :  
(A) 20 (B) 23 (C) 25 (D) 30
23. The dose of chicken pox vaccine to be given to a 15 year old for full protection :  
(A) 2 doses 6 weeks apart, 0.5 ml subcutaneous  
(B) 2 doses 6 weeks apart, 0.5 ml intramuscular  
(C) Single dose, 0.5 ml subcutaneous  
(D) Single dose, 0.5 ml intramuscular
24. Emerging pathogens that could be engineered for mass spread as bioterror weapon is included in :  
(A) Category A bio terror weapon  
(B) Category B bio terror weapon  
(C) Category C bio terror weapon  
(D) Category D bio terror weapon
25. The reservoir for MERS-CoV infection is :  
(A) Fruit bats (B) Vampire bats  
(C) Camels (D) Ardeid birds in Arabian countries
26. A mother developed chicken pox 1 day after delivery of a male baby. Immediate action to be taken :  
(A) Give VZIG to baby  
(B) No need of treatment  
(C) No VZIG give Acyclovir to the baby  
(D) Immediately give vaccine and VZIG to the baby
27. Pick the false statement about Ebola infection :  
(A) Dead bodies possess a risk of transmission to others  
(B) Fruit bats are reservoirs  
(C) Fomites can transmit infection  
(D) Caused by Orthopox virus
28. A child exposed to a case of measles can be protected by :  
(A) Cannot be protected with measles vaccine but requires immunoglobulin  
(B) Can be protected if given vaccine within 72 hours  
(C) Can be protected if given vaccine within 96 hours  
(D) Should be given ribavirin within 48 hours
29. Raft shaped eggs are associated with :  
(A) Anopheles (B) Culex (C) Aedes (D) Mansonia

30. The agent used for space spraying :  
 (A) Pyrethrum (B) Malathion (C) Abate (D) Lindane
31. The effluent generated from the hospital should have a BOD of less than :  
 (A) 30 mg/L (B) 60 mg/L (C) 100 mg/L (D) 200 mg/L
32. As per the biomedical waste management rules 2016, Government of India discarded medicines should put in :  
 (A) Yellow Container (B) Black Container  
 (C) Blue Container (D) Red Container
33. The father of public health :  
 (A) John Snow (B) Louis Pasteur  
 (C) Small pox (D) Cholera
34. Father of antiseptic surgery :  
 (A) Louis Pasteur (B) John Snow  
 (C) Joseph Lister (D) Ignas Semmelweis
35. In the emblem of WHO the staff and the serpent shown is :  
 (A) Staff of Aesculapius (B) Cadeucius Staff  
 (C) Staff of Aaron (D) Staff of hygea
36. The gross income generated from within the country and also the net income generated from abroad is called as :  
 (A) Gross Domestic Product  
 (B) Gross National Income  
 (C) Purchase Power Parity in Dollars  
 (D) HALE
37. Ideal bed turnover interval for optimum use of health resources and avoiding MRSA is :  
 (A) Slightly positive (B) Largely positive  
 (C) Slightly negative (D) Largely negative
38. In a malaria survey in Orissa among 50,000 population, 10,000 slides were examined for malaria. 250 came as positive. Pick the true statement :  
 (A) It is a high API area and ABER is adequate  
 (B) It is a high API area but ABER is inadequate  
 (C) Low API but ABER is inadequate  
 (D) API and ABER are 100 and 10%

39. The drug of choice for plasmodium falciparum malaria for north eastern states is :  
 (A) Chlorquine  
 (B) Quinine  
 (C) Artemesinin - Sulfadoxine/Pyrimethamine  
 (D) Artemether - Lumefantrine
40. As per the national framework for malaria elimination in India, category 1 state is :  
 (A) States/UT with 0 indigenous cases  
 (B) States/UT with API<1 and all districts with API<1  
 (C) States/UT with API<1 but some districts with API>1  
 (D) States/UT with API>1
41. Percentage of persons examined showing microfilaria in their blood or manifestation or both :  
 (A) Microfilaria rate (B) Filariasis endemicity rate  
 (C) Microfilarial density (D) Average infestation rate
42. The dose of equine rabies immunoglobulin to be given to a person with a weight of 50 kg :  
 (A) 2000 IU (B) 2500 IU (C) 1000 IU (D) 3000 IU
43. Clinical surveillance period for multi bacillary leprosy after treatment is :  
 (A) At least every 6 months for 2 years  
 (B) At least every 6 months for 5 years  
 (C) At least every year for 2 years  
 (D) At least every year for 5 years
44. All are indirect methods of demography except :  
 (A) Life table (B) Sisterhood methods  
 (C) Hazard models (D) Census
45. The equivalent number of years in full health that a newborn can expect to live based on current rates of ill health and mortality is :  
 (A) HALE (B) DALY (C) QALY (D) PQLI
46. The rate in which denominator is not midyear population :  
 (A) Proportional mortality rate (B) Specific death rate  
 (C) Crude death rate (D) Crude Marriage rate
47. The bias which occurs when patients who have died or recovered will be erroneously excluded, skewing the results towards individuals who are average could be best explained as :  
 (A) Berksonian bias (B) Misclassification bias  
 (C) Lead time bias (D) Neyman bias

48. MMR of India is 47/100000 live births. In this MMR is expressed as :  
 (A) Rate (B) Ratio (C) Proportion (D) Special rate
49. A group of non-diseased doctors were followed up for development of lung cancer. After 20 years investigator noted that number of study subjects in the cohort developed Peripheral vascular disease (PVD). He did a case control study by taking cases as those with PVD and controls from the same cohort. This is :  
 (A) It is not an acceptable design as the intended design was a cohort  
 (B) It is a block design cohort  
 (C) It is a cross over design  
 (D) It is a nested design
50. In a prospective study of omega 3 fatty acid and colon cancer, of the 8000 given omega 3 fatty acid 8 developed colon cancer and among 6000 not given omega 3 fatty acid 6 developed colon cancer. What is the interpretation ?  
 (A) Omega 3 fatty acid is protective in colon cancer  
 (B) Omega 3 fatty acid has no association with colon cancer  
 (C) The study is insufficient to provide any conclusion  
 (D) Omega 3 fatty acid is harmful
51. A person with fever and history of travel to areas where there are one or more confirmed swine influenza A(H1N1) cases within 7 days is :  
 (A) Probable case (B) Suspect case (C) Confirmed case (D) Doubtful case
52. 80 year old Mahendaran comes to your OP with mild fever and sore throat during an epidemic of swine flu, action to be taken :  
 (A) Tested for H1N1 immediately and given oseltamivir  
 (B) Will be given oseltamivir without testing  
 (C) No oseltamivir required will be symptomatically treated  
 (D) Start him on amantadine
53. A 3 year old female child was brought to the casualty with a H/o cough and fever 4 days. O/E weight of the child was 6 kg and RR=45/mt with fever. The child will be classified as :  
 (A) Pneumonia (B) Severe pneumonia  
 (C) Very severe disease (D) AURI
54. 2 and half year old Anusha has been found to be infected with *whooping cough*. Her mother comes to you for advice regarding her 2<sup>nd</sup> child who is only 25 days old. Advice to be given is :  
 (A) Nothing more is required if the mother has been fully vaccinated with DPT  
 (B) Hyperimmune globulin  
 (C) Erythromycin for kid  
 (D) Hyperimmune globulin + Erythromycin

55. In an 8 month old child fast breathing is :  
 (A) Respiratory rate > 30/minute (B) Respiratory rate > 40/minute  
 (C) Respiratory rate > 50/minute (D) Respiratory rate > 60/minute
56. 1% annual risk of infection in TB corresponds to :  
 (A) 100 new smear +ve TB/year for 1 lakh general population  
 (B) 50 new smear +ve TB/year for 1 lakh general population  
 (C) 25 new smear +ve TB/year for 1 lakh general population  
 (D) 125 new smear +ve TB/year for 1 lakh general population
57. Pick the true statement about demographic transition :  
 (A) Animal model of growth is seen in stage 1  
 (B) Population explosion is seen in stage 1  
 (C) High child dependency in stage 3  
 (D) In declining phase BR is more than death rate
58. Census in India is under the ministry of :  
 (A) HRD ministry (B) Social welfare (C) Home affairs (D) Labour ministry
59. A village in Andhra Pradesh has 20% population below 15 years and 10% above 65 years. Total population of the village is 10,000. Total Dependency ratio of the community is :  
 (A) 34% (B) 30%  
 (C) 43% (D) Cannot be calculated from data
60. A community has a population of 10,000. Children between 0-6 is 2000. Literate persons above 7 years are 6000. Effective literacy rate is :  
 (A) 45% (B) 60% (C) 75% (D) 90%
61. In a population which is growing at a very rapid phase the population will double in :  
 (A) 70-139 years (B) 47-70 years (C) 35-47 years (D) 15-20 years
62. The protocol that envisages prevention of depletion of ozone layer :  
 (A) Kentucky Protocol (B) Melbourne Protocol  
 (C) Montreal Protocol (D) Kyoto Protocol
63. The total set of greenhouse gas emissions caused by an individual, event, organisation, product expressed as CO<sub>2</sub> equivalent :  
 (A) Carbon foot print (B) Carbon credit  
 (C) Carbon accounting (D) Carbon hole
64. The sustainable development goal associated with gender equality is :  
 (A) Goal 1 (B) Goal 3 (C) Goal 5 (D) Goal 7

65. The method of cleaning sand bed in rapid sand filter is :  
 (A) Cleaning (B) Scraping (C) Back washing (D) Back scraping
66. In determining the amount of bleaching powder required for a well using horrocks apparatus, it was found that blue colour was seen in the 3<sup>rd</sup> cup. Water in the well is 4550 litres. The amount of bleaching powder required is :  
 (A) 60 grams (B) 12 grams (C) 120 grams (D) 30 grams
67. Pick the true statement about measles vaccine :  
 (A) Vaccine loses 25% of potency when kept at 20 degrees for 1 hour  
 (B) Both vaccine and diluent must be frozen  
 (C) Best immunological response to measles vaccine is seen in children at 12 months  
 (D) 2<sup>nd</sup> dose of measles vaccine should be introduced in a population with MCV1 coverage <50%
68. Pick the true statement about antigenic changes in influenza virus :  
 (A) Drift causes pandemics  
 (B) Shift is due to point mutation  
 (C) Shift is a gradual antigenic change over time  
 (D) Most antigenically stable among influenza viruses is Type C
69. The vaccine used for prevention of rubella :  
 (A) SA 14-14-2 (B) RA27/3  
 (C) A/California/7 (D) 17D vaccine
70. Rema aged 3 years presents to your OP with diarrhea of 2 days duration. She is drinking fluids. Her weight is 10 kg. Her requirements of ORS in the 1<sup>st</sup> 4 hours is :  
 (A) 300 ml (B) 350 ml (C) 500 ml (D) 750 ml
71. The dose of hepatitis B immunoglobulin to be given to a sexual contact of hepatitis B patient is :  
 (A) Not given, Give vaccine since sexual route  
 (B) 0.01 ml/kg  
 (C) 0.03 ml/kg  
 (D) 0.06 ml/kg
72. The dose of Zinc to be given to child with diarrhea aged 9 months is :  
 (A) 10 mg for 5 days (B) 10 mg for 14 days  
 (C) 20 mg for 5 days (D) 20 mg for 14 days

73. Hook worm infection may be regarded as a potential danger when Chandler's index is :  
 (A) Below 150 (B) 150-200 (C) 200-250 (D) 250-300
74. The total osmolarity and concentration of sodium in low osmolarity ORS is :  
 (A) 250 m mol/ltr and 100 m mol/ltr (B) 245 m mol/ltr and 50 m mol/ltr  
 (C) 311 m mol/ltr and 90 m mol/ltr (D) 245 m mol/ltr and 75 m mol/ltr
75. Children vaccinated with measles vaccine from a sub center developed abrupt onset of fever, vomiting and diarrhea 4 hours after immunization. During investigation of AEFI it was found that vaccine was used 5 hours after reconstitution. This can be classified as :  
 (A) Vaccine product related reaction  
 (B) Vaccine quality related reaction  
 (C) Immunisation error related  
 (D) Immunization anxiety related
76. Likert scale is :  
 (A) Nominal scale (B) Ordinal scale (C) Interval scale (D) Ratio scale
77. The chances of passing a congenital defect A by affected parents to their children is 0.15. They plan to have 2 children. What is the probability of both the children having the genetic disease ?  
 (A) 0.3 (B) 0.45 (C) 0.0225 (D) 0.225
78. The odds of an event occurring is 5. What is the probability of that event occurring ?  
 (A) 0.83 (B) 0.75 (C) 0.2 (D) 0.05
79. When the relative deviate in a standard normal curve is  $-2$  the proportion of area from the middle of the curve to the designated value is :  
 (A) 34.1% (B) 47.7% (C) 68.2% (D) 95.4%
80. When mean of a distribution is 85 and median is 98 the distribution is :  
 (A) Symmetrical (B) Positively Skewed  
 (C) Negatively Skewed (D) SD needed to find out Skewedness
81. A case control study done to prove association of fatty food intake and breast cancer showed an odds ratio of 4.3 (95% C.I-0.9-8.5). It means :  
 (A) Fatty food intake causes breast cancer  
 (B) Fatty food intake protects against breast cancer  
 (C) No significant relation between fatty food intake and breast cancer  
 (D) Cannot be found out with limited data

82. AUDIT test is used in the screening for :
- (A) Smoking (B) Alcohol  
(C) Non alcoholic beverages (D) Trans fats
83. Supranational lab for Tuberculosis in India is :
- (A) National Tuberculosis Institute (NTI), Bangalore  
(B) National Institute of TB & Respiratory Diseases (NIRTD), New Delhi  
(C) Regional Medical Research Centre (RMRC), Bhubaneswar  
(D) National Institute for Research in Tuberculosis (NIRT), Chennai
84. The false statement about end TB strategy :
- (A) 95% reduction in TB deaths by 2035 compared to 2015  
(B) 90% reduction in TB incidence rate by 2035 compared to 2015  
(C) TB affected families facing catastrophic costs to 50% by 2030  
(D) TB affected families facing catastrophic costs to 0% by 2030
85. Regarding intradermal vaccination against polio using IPV, schedule followed in Kerala :
- (A) Single dose i.d at 6 weeks  
(B) Single dose i.d at 14 weeks  
(C) 2 doses i.d at 6 and 10 weeks  
(D) 2 doses i.d at 6 and 14 weeks
86. In case of adequate acute flaccid paralysis surveillance Non polio AFP rate in a population should be :
- (A)  $>1/10,000$  (B)  $>1/1,00,000$  (C)  $<1/10,000$  (D)  $<1/1,00,000$
87. The current vaccine against dengue is :
- (A) Monovalent vaccine (B) Bivalent vaccine  
(C) Trivalent vaccine (D) Tetravalent vaccine
88. Average number of children a woman would have if she were to pass through her reproductive years bearing children at the same rates as the women now in each age group is :
- (A) General fertility rate (B) Age specific fertility rate  
(C) Gross reproductive rate (D) Total fertility rate

89. In the National Programme of Nutritional Support to Primary Education the nutritional supplement given to upper primary level is :
- (A) 700 calories and 20 grams of protein  
 (B) 500 calories and 15 grams of protein  
 (C) 300 calories and 12 grams of protein  
 (D) 800 calories and 20 grams of protein
90. Current best measure of protein quality as per FAO and WHO :
- (A) Amino acid score  
 (B) Protein Digestibility Corrected Amino Acid Score (PDCAAS)  
 (C) Digestible Indispensable Amino Acid Score (DIAAS)  
 (D) Protein efficacy ratio
91. The deficiencies in milk are :
- (A) Iron and Vitamin C                      (B) Calcium and Vitamin C  
 (C) Iron and Vitamin D                      (D) Iron and Vitamin B<sub>12</sub>
92. Energy requirements of a person decreases by \_\_\_\_\_ every decade after age of 60.
- (A) 2%                      (B) 5%                      (C) 7%                      (D) 10%
93. The Z score weight for height of a child is -2.65. He is :
- (A) Normal                      (B) Mild stunting                      (C) Severe wasting                      (D) Mild wasting
94. Number of measles vaccine required to immunize the target children in a town of 5000 with a birth rate of 30/1000 and a IMR of 100/1000 live births assuming wastage of 30% is :
- (A) 135                      (B) 150                      (C) 190                      (D) 270
95. Percentage of people using, at least one method of contraception, regardless of the method used is :
- (A) Couple protection rate  
 (B) Contraceptive prevalence rate  
 (C) Effective couple protection rate  
 (D) Overall couple protection rate
96. A randomized controlled trial comparing efficacy of 2 drugs showed that difference is statistically significant with a P value of < 0.001 but in reality the 2 drugs do not differ in their efficacy. This is an example of :
- (A) Alfa error                      (B) Beta error                      (C) Theta error                      (D) Gamma error

97. An investigator wants to study the association between maternal intake of Protein (High, moderate and Low) and birth weight of children in grams. The statistical test to be used is :
- (A) Kruskal wallis test                      (B) Unpaired t-test  
(C) ANOVA                                      (D) Ranks test
98. Correlation coefficient of GFR and Serum creatinine was found to be 0.8. What percentage in variation of Serum creatinine can be explained with GFR ?
- (A) 16%                      (B) 80%                      (C) 64%                      (D) 88%
99. Funnel plot is used analyse :
- (A) Recall bias                                      (B) Confounding bias  
(C) Publication bias                              (D) Meta-analysis
100. Pick the false statement about VDPV in polio :
- (A) I-VDPV is a bigger threat than c-VDPV in eradication of polio  
(B) c-VDPV's are largely due to type 2 polio virus  
(C) Consistent with prolonged replication or transmission  
(D) Are diagnosed with rRT-PCR

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**SPACE FOR ROUGH WORK**

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