

# 133/2017

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.

133/2017-A





133/2017

Maximum : 100 Marks

Time : 1 hour and 15 minutes

1. Which article of Indian constitution deals with the election of Indian President ?  
(A) Article 52 (B) Article 51  
(C) Article 53 (D) Article 54
2. Player of the Match of Women's World Cup Final, 2017.  
(A) Anya Shrubsole (B) Harmeet Kaur  
(C) S.J. Taylor (D) Tammy Beaumont
3. 45<sup>th</sup> Chief Justice of India.  
(A) Dipak Misra (B) J.S. Khehar  
(C) T.S. Takhur (D) P.D. Dinakaran
4. Magsaysay award winner of 2017 Abdon Nababan.  
(A) Singapore (B) Indonesia  
(C) Japan (D) Philippines
5. Rajiv Gandhi Khel Ratna Winner of 2017.  
(A) Devendra Jhahria (B) M.S. Dhoni  
(C) Deepa Karmakar (D) M. Bhoopathi
6. Who wrote the book *Vedanatasaram* ?  
(A) Dr. Ayyathan Gopalan (B) Chattampi Swamikal  
(C) Sree Narayana Guru (D) T.K. Madhavan
7. *Deepika* monthly was a publication of \_\_\_\_\_.  
(A) Islamiya (B) Malayala Manorama  
(C) Library Movement (D) Namboothiri Movement
8. *Lalithopaharam Kilipattu* was a work of \_\_\_\_\_.  
(A) V.T. Bhattathirippadu (B) A.K. Gopalan  
(C) K.P. Karuppan (D) P. Krishna Pillai
9. *Kavi Chanda* a work of \_\_\_\_\_.  
(A) V.T. Bhattathirippadu (B) A.K. Gopalan  
(C) Sree Narayana Guru (D) T.K. Madhavan

A

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[P.T.O.]

10. Whom did Sir Hugh Rose, the commander of the British army during the revolt of 1857, refer as the “best and bravest of the military leaders of the rebels” ?  
 (A) Tantiya Tope (B) Rani Lakshmi Bai  
 (C) Nana Saheb (D) Kunwar Singh
11. Who raised the patriotism to the pedestal of mother worship and said : I know my country as my mother. I adore her. I worship her ?  
 (A) Aurobindo Ghosh (B) B.G. Tilak  
 (C) Bhagat Singh (D) S.C. Bose
12. Both the transfer of power and the partition of India were carried through in \_\_\_\_\_ days.  
 (A) 72 (B) 94  
 (C) 68 (D) 84
13. Total number of days spent by Gandhi in prison was  
 (A) 2120 (B) 2089  
 (C) 3650 (D) 2338
14. Who constituted the scientific man power committee.  
 (A) Nehru (B) Indira Gandhi  
 (C) Rajiv Gandhi (D) Morarji Desai
15. The earliest written record mentioning Kerala is \_\_\_\_\_  
 (A) Aitereya Aranyaka (B) Indica  
 (C) Edicts of Asoka (D) Kalpasutra
16. In which year C.W.R.D.M. was established ?  
 (A) 1975 (B) 1978  
 (C) 1984 (D) 1985
17. Which one of the following is not a part of Ramsar sites ?  
 (A) Ashtamudi (B) Sasthamkotta  
 (C) Vembanad (D) Vellayani
18. *Swadhar* a programme related to \_\_\_\_\_.  
 (A) Women (B) Children  
 (C) Police (D) Cinema
19. *Socrates* is a work of \_\_\_\_\_.  
 (A) Ramakrishna Pillai (B) Kumaranasan  
 (C) Chattampi Swamikal (D) Sree Narayana Guru
20. On July 3, 2017 foundation stone of the India’s biggest Global Skill Park was laid in  
 (A) Kolkata (B) Bhopal  
 (C) Jaipur (D) Nagpur

21. Glucose is  
(A) Triose sugar (B) Tetrose sugar  
(C) Pentose sugar (D) Hexose sugar
22. Which is the major fatty acid present in the palm oil ?  
(A) Oleic acid (B) Palmitic acid  
(C) Palmitoleic acid (D) Stearic acid
23. Reichert-Meissl value means  
(A) The measure of non-volatile water insoluble fatty acids.  
(B) The measure of volatile water soluble fatty acids.  
(C) The measure of non-volatile water soluble fatty acids.  
(D) The measure of volatile water insoluble fatty acids.
24. What is the pH of bile salt ?  
(A) 7.6 (B) 7.7  
(C) 7.8 (D) 7.9
25. Carboxypeptidase enzyme is present in  
(A) Saliva (B) Pancreatic juice  
(C) Intestinal juice (D) Blood
26. Active chemical form of vitamin B<sub>6</sub> is  
(A) Pantothen-5-phosphate (B) Nicotine-5-phosphate  
(C) Thiamine-5-phosphate (D) Pyridoxal-5-phosphate
27. Best dietary source of zinc  
(A) Oyster (B) Pork  
(C) Mushroom (D) Beef
28. Which is the parent substance of carnitine that transports fatty acids within mitochondria ?  
(A) Methionine (B) Leucine  
(C) Histidine (D) Lysine
29. Which one of the following is not an essential amino acid ?  
(A) Tryptophan (B) Serine  
(C) Phenyl alanine (D) Leucine

30. Kwashiorkor is  
(A) Protein deficiency disease (B) Vitamin E deficiency disease  
(C) Iron deficiency disease (D) Glucose deficiency disease
31. MPN stands for  
(A) Most Portable Number (B) Most Probable Normality  
(C) Most Probable Number (D) Most Predictive Number
32. Leavening agent used in the preparation of bread  
(A) Yeast (B) Baking powder  
(C) Baking soda (D) None of the above
33. E. coli is  
(A) Gram positive bacteria (B) Gram negative bacteria  
(C) All of the above (D) None of the above
34. Spoilage of oil is called  
(A) Caramelisation (B) Fermentation  
(C) Rancidity (D) Putrefaction
35. Number of degrees of centigrade required for a thermal death time to traverse through one log cycle is called  
(A) D value (B) F value  
(C) X value (D) Z value
36. Flagella, a motile organ of bacteria, made up of a protein called  
(A) Patulin (B) Flagellin  
(C) Pili (D) Villi
37. Micro-organisms responsible for food borne illness.  
(A) Clostridium botulinum (B) Bacillus cereus  
(C) Both (A) and (B) (D) None of the above
38. Minimum water activity for halophilic bacteria is  
(A) 0.65 (B) 0.75  
(C) 0.85 (D) 0.95

39. Examples for physical methods of microbial sterilization
- (A) Heat and radiation (B) Radiation and filtration  
(C) Both (A) & (B) (D) None of the above
40. Attenuated vaccine means
- (A) Organism that are grown in culture and then killed.  
(B) Live organism with very low virulence.  
(C) Vaccine made from a toxin that has been made harmless.  
(D) Manmade substances very similar to bacteria or viruses.
41. Mitochondria is an organelle present inside animal cell which producing universal form of energy i.e., ATP. Hence the mitochondria is called
- (A) Power house of the cell (B) Generator of the cell  
(C) Power generator of the cell (D) Energy house of the cell
42. Mechanism of breakdown of complex molecules into smaller pieces in living organism associated with the release of energy.
- (A) Anabolism (B) Digestion  
(C) Absorption (D) Catabolism
43. Human body has four major tissues. Which one of the following is not a human tissue ?
- (A) Epithelium (B) Muscle  
(C) Brain (D) Nerves
44. The transport of food materials through esophagus into the stomach is by means of series of contractions. This movement is called
- (A) Diffusion (B) Peristalsis  
(C) Active transport (D) Homeostasis
45. First part of small intestine into which the pancreatic juice is secreted is called
- (A) Ilium (B) Jejunum  
(C) Duodenum (D) Pharynx
46. Aorta helps to
- (A) Receive oxygenated blood from the lungs.  
(B) Carry blood to the lungs.  
(C) Receive deoxygenated blood from the body.  
(D) Carry blood away from the heart and to all parts of the body.

47. After the completion of blood coagulation, the clot has to be dissolved to facilitate repair of tissues. This dissolution of clot happens by the action of
- (A) Thrombin (B) Plasmin  
(C) Actin (D) Integrin
48. Human Immunodeficiency Virus (HIV) attacks and destructs
- (A) B cells (B) M cells  
(C) T cells (D) V cells
49. White blood cells or Leukocytes kill micro-organisms by engulfing them. This process is called
- (A) Autolysis (B) Engulfing  
(C) Lysing (D) Phagocytosis
50. Which one of the following is called 'Voice Box' ?
- (A) Larynx (B) Pharynx  
(C) Esophagus (D) Stapium
51. Which is called 'functional unit of kidney' ?
- (A) Neuron (B) Bowman's capsule  
(C) Nephron (D) Urethra
52. What is the approximate glomerular filtration rate of a healthy individual ?
- (A) 75 ml/minute (B) 125 ml/minute  
(C) 175 ml/minute (D) 225 ml/minute
53. Percentage of water content in blood plasma
- (A) 82 (B) 87  
(C) 92 (D) 97
54. The gray matter of spinal code is composed of how many numbers of laminae ?
- (A) 5 (B) 9  
(C) 13 (D) 19
55. Pituitary gland is a major gland present in human body. The pituitary gland is controlled by
- (A) Thalamus (B) Hypothalamus  
(C) Medula (D) All of the above



56. Major function of the enzyme glucagon is
- (A) To increase glucose level in the blood.
  - (B) To decrease glucose level in the blood.
  - (C) To increase glycogen level in the blood.
  - (D) To decrease glycogen level in the blood.
57. The process of production of sperm by male sex organ is called
- (A) Spermatolysis
  - (B) Spermatoneogenesis
  - (C) Spermatosis
  - (D) Spermatogenesis
58. Which one of the following is not a contraceptive method ?
- (A) Cistogamy
  - (B) Vasectomy
  - (C) Intrurine device
  - (D) Abstinence
59. A cup-like structure at the beginning of renal tubule in the human kidney is called
- (A) Henle's loop
  - (B) Bowman's capsule
  - (C) Arteriole
  - (D) Renal column
60. Water loss from human body occurs through
- (A) Kidney and skin
  - (B) Lungs and large intestine
  - (C) All of the above
  - (D) None of the above
61. Water exchange between plasma and interstitial fluid is controlled by
- (A) Osmotic pressure
  - (B) Hygroscopicity
  - (C) Surface tension
  - (D) Diffusion
62. Inability to digest milk sugar in some adult is called
- (A) Diarrhoea
  - (B) Milk sugar syndrome
  - (C) Lactose intolerance
  - (D) Pellagra
63. Milk is deficient in
- (A) Iron and Vitamin C
  - (B) Iron and Potassium
  - (C) Vitamin C and Potassium
  - (D) Potassium and Vitamin D

64. Meat and fish are found in large quantities in  
 (A) Balanced diets at high cost (B) Balanced diets at medium cost  
 (C) Balanced diets at low cost (D) All of the above
65. Functioning of renal system during geriatric period will  
 (A) remain same (B) increase  
 (C) decrease (D) depends on individuals
66. Which one of the following is not a food fallacy ?  
 (A) Garlic cures high blood pressure.  
 (B) White shelled eggs are more nutritious than brown shelled eggs.  
 (C) Good way to diet is to skip breakfast.  
 (D) None of the above
67. A number of women organizations have to be established in each block under applied nutritional programme. These woman organizations are called  
 (A) Mahila samithis (B) Mahila samajam  
 (C) Kudumbasree (D) Grama samithi
68. Urinary calculi is found in peoples consuming foods rich in  
 (A) Oxalates (B) Sulphates  
 (C) Minerals (D) One of the above
69. A diet used in the treatment of peptic ulcer.  
 (A) Liemens diet (B) Mentleuin diet  
 (C) Siminarin diet (D) Lenhartz diet
70. Match the following :
- |                       |   |                    |
|-----------------------|---|--------------------|
| (1) Atherosclerosis   | – | (a) Uric acid      |
| (2) Blood pressure    | – | (b) Wheat protein  |
| (3) Diabetes mellitus | – | (c) Insulin        |
| (4) Celiac disease    | – | (d) Diabolic       |
|                       | – | (e) Sedentary life |
- |     |     |     |     |     |
|-----|-----|-----|-----|-----|
|     | (1) | (2) | (3) | (4) |
| (A) | (e) | (d) | (c) | (b) |
| (B) | (b) | (d) | (c) | (a) |
| (C) | (e) | (c) | (d) | (a) |
| (D) | (c) | (e) | (a) | (b) |

71. During pregnancy, how much additional energy is required on 3<sup>rd</sup> trimester ?  
(A) 100 kcal/day (B) 200 kcal/day  
(C) 300 kcal/day (D) 400 kcal/day
72. Which one of the following is not a factor which affects while planning of a meal ?  
(A) Age and sex  
(B) Weather and occupation  
(C) Economy and physiological needs  
(D) None of the above
73. ICMR stands for  
(A) Indian Council of Medical Research  
(B) International Council of Medical Research  
(C) Indian Centre for Medical Research  
(D) International Centre for Medical Research
74. What is the reference body weight of an adult man having 18-29 years of age while calculating RDA ?  
(A) 50 kg (B) 55 kg  
(C) 60 kg (D) 65 kg
75. The method of cooking using a temperature below 100 °C for long period is called  
(A) Boiling (B) Steaming  
(C) Braising (D) Barbecue
76. “Bench Proof” means  
(A) Soaking of food in a seasoned liquid mixture for a certain length of time.  
(B) Sweet or savoury dishes made of ingredients that are blended and folded together.  
(C) A technique by which thin strips of back fat or vegetables are inserted into a piece of meat.  
(D) The rising stage just before baking, that occurs after the dough is formed and moulded
77. Sauteing is a  
(A) Dry heat cooking method  
(B) Wet heat cooking method  
(C) Moist heat cooking method  
(D) Combination cooking method

78. A dip made from Bengal gram with garlic and tahini  
 (A) Hummus (B) Guacamole  
 (C) Vinaigrettes (D) Salsa
79. A cold sauce that is an emulsion of oil and vinegar stabilized with egg yolk and mustard is called  
 (A) Egg yolk soup (B) Escarole  
 (C) Mayonnaise (D) Mesclun
80. What are the main components in a salad ?  
 (A) Base, body, dressing and garnish  
 (B) Base, texture, dressing and garnish  
 (C) Base, texture, suspension and garnish  
 (D) Recipe, texture, dressing and garnish
81. Vegetables purees are used in the preparation of soups as a  
 (A) Stabilizing agent (B) Thickening agent  
 (C) Emulsifying agent (D) Colouring agent
82. A soup made from clear stock which does not thickened is called  
 (A) Thin soup (B) Thick soup  
 (C) Clear soup (D) Cream soup
83. A substance added in foods to bring out the natural flavours inside the food.  
 (A) Monosodium glutamate (B) Sodium chloride  
 (C) Potassium chloride (D) Sucrose
84. Which one of the following will be usually the most expensive and becomes the base of the menu while planning menu ?  
 (A) Main dish (B) Side dish  
 (C) Starter (D) Appetizer
85. While cooking cereals, the starch granules will absorb water and becomes swell. The process is called  
 (A) Retrogradation (B) Gelatinization  
 (C) Swelling (D) Birefringence

86. Table d' hote means
- (A) a menu that is made up for a certain time period and is then repeated; a cycle usually varies from three to seven or more days.
  - (B) a menu that offers the same dishes everyday for a long period of time.
  - (C) a food offered with a separate price for each food item on the menu.
  - (D) a type of menu in which one price is given for an entire meal.
87. A combination of English and meal formal service in which the main course of the meal is served at the table by the host and the remainder of the meal is served in individual portions from the kitchen.
- (A) Modified English service
  - (B) Family service
  - (C) Compromise service
  - (D) Meal service
88. A chef who supervises the other chefs in a kitchen and reports to the executive chef.
- (A) Sous chef
  - (B) Head chef
  - (C) Main chef
  - (D) Supervisor chef
89. Dice means
- (A) To cut into no specified shape
  - (B) To cut into uniform slices
  - (C) To cut finely with a grater
  - (D) To cut into small uniform cubes
90. Chylomicron is a type of
- (A) Lipoprotein
  - (B) Cholesterol
  - (C) Micro-organism
  - (D) Triglyceride
91. Protein sparing action is one of the major functions of
- (A) Protein
  - (B) Fats
  - (C) Carbohydrates
  - (D) Minerals
92. Micro-organism used in the preparation of lager beer.
- (A) Rhizopus stolonifer
  - (B) Saccharomyces pastorianus
  - (C) Aspergillus oryzae
  - (D) Pencillium sacchrolyticum

93. In a DNA double helical structure, nucleotides are joined with each other by  
(A) Nucleoamino bond (B) Nucleoether bond  
(C) Phosphodiester bond (D) Phosphodiether bond
94. Log phase in a bacterial growth curve is otherwise called  
(A) Stationery phase (B) Exponential phase  
(C) Death phase (D) None of the above
95. Micro-organism responsible for ropiness in bread  
(A) *Bacillus subtilis* (B) *Rhizopus nigrificans*  
(C) *Pencilium notatum* (D) *Bacillus viscolatis*
96. Burning feet syndrome is otherwise called as  
(A) Griersan-Gopalan syndrome  
(B) Andrews-Kesavan syndrome  
(C) Griersan-Kesavan syndrome  
(D) Andrews-Gopalan syndrome
97. A theory states that there are certain factors in the workplace that cause job satisfaction while a separate set of factors cause dissatisfaction  
(A) Maslow theory (B) Mc Gregor theory  
(C) Hygiene theory (D) Mc Clelland theory
98. Steatorrhea means  
(A) Fat in stool (B) Blood in stool  
(C) Watery stool (D) Dark stool
99. A parasite that causes food borne illness  
(A) *Listeria* (B) *Amoeba*  
(C) *Trichinella* (D) *Escherichia*
100. Anorexia means  
(A) Sleeplessness (B) Loss of appetite  
(C) Reduced haemoglobin (D) Mental retardation

**SPACE FOR ROUGH WORK**

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