

104/2018-T

Question Booklet
Alpha Code

A

Question Booklet
Serial Number

Total No. of Questions: 100

Time : 75 Minutes

Maximum : 100 Marks

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.

104/2018-T-A



1. The largest natural number which exactly divides the product of any four consecutive natural numbers is
 - (A) 120
 - (B) 24
 - (C) 12
 - (D) 6

2. If 520 mangoes can be bought for ₹ 600, how many can be bought for ₹ 1500 ?
 - (A) 1040
 - (B) 1200
 - (C) 1300
 - (D) 1560

3. In an examination 86% of the candidates passed and 224 failed. How many candidates appeared for the exam ?
 - (A) 800
 - (B) 1540
 - (C) 1600
 - (D) 3136

4. Raju & Tom together can do a work in 10 days. Tom & Appu together can do it in 12 days. Appu & Raju together can do it in 15 days. In how many days will they finish it if all the three work together ?
 - (A) 8 days
 - (B) 4 days
 - (C) 4.5 days
 - (D) 9.5 days

5. Area of the largest triangle that can be inscribed in a semicircle of radius 2 cm is
 - (A) 2 cm^2
 - (B) 4 cm^2
 - (C) $2\sqrt{2} \text{ cm}^2$
 - (D) $4 \pi \text{ cm}^2$

6. If Maya goes to office at a speed of 40 km/hr, she reaches 5 minutes late. If she travels at the speed of 60 km/hr, she is 10 minutes early. What is the distance to office from her home ?
- (A) 30 km
(B) 40 km
(C) 50 km
(D) 35 km
7. How much time will a train of length 171 metres take to cross a tunnel of length 229 metres, if it is running at a speed of 30 km/hr ?
- (A) 1 minute
(B) 36 seconds
(C) 30 seconds
(D) 32 seconds
8. At what time between 4 and 5 will the hands of a clock be at right angles ?
- (A) $38\frac{3}{11}$ minutes past 4
(B) $38\frac{9}{13}$ minutes past 4
(C) $38\frac{2}{11}$ minutes past 4
(D) $38\frac{5}{13}$ minutes past 4
9. Today 10th May 2018 is a Thursday. What day of the week will it be on 25th December, 2018 ?
- (A) Wednesday
(B) Sunday
(C) Monday
(D) Tuesday
10. The ratio between the ages of Appu and Ryan at present is 3 : 4. Five years ago the ratio of their ages was 2 : 3. What is the present age of Appu ?
- (A) 15 years
(B) 20 years
(C) 12 years
(D) 30 years

11. What day of the week will be on 8th June 2215 ?
(A) Friday (B) Thursday
(C) Monday (D) Sunday
12. What will come in the place of “?” :
EG, HJ, KM, NP, ?
(A) QS (B) QR
(C) QT (D) RS
13. Find $10 + 10 \times 10 \div 10 - 10$
(A) 0 (B) 10
(C) 100 (D) 1
14. The simple interest on a sum of money is equal to the principal and number of years is equal to the rate percent per annum. Find the rate percent.
(A) 15% (B) 20%
(C) 12% (D) 10%
15. How long will a 150 m long train running at a speed of 60 kmph take to cross the bridge of 300 m long ?
(A) 37 seconds (B) 35 seconds
(C) 25 seconds (D) 27 seconds
16. The ratio of ages of Monu and Sonu at present is 4 : 1. Eight years ago Monu's age was 10 times the age of Sonu. What is the present age of Monu ?
(A) 48 (B) 44
(C) 46 (D) 42
17. What will be the next term 7, 12, 19, _____ ?
(A) 26 (B) 28
(C) 30 (D) 24
18. Rony walked 20 m towards North, then he turned right and walks 30 m. Then he turns right and walks 35 m. Then he turns left and walks 15 m. Finally he turns left and walks 15 m. How many metres is he from the starting position ?
(A) 45 m (B) 35 m
(C) 55 m (D) 15 m
19. A tank can be filled by pipe A in 6 hours and by pipe B in 3 hours, each pump working on its own. When the tank is full and a drainage hole is open, the water is drained in 4 hours. If initially the tank was empty and someone started the two pump together, but left the drainage hole open, how long does it take for the tank to be filled ?
(A) 6 hours (B) 8 hours
(C) 4 hours (D) 12 hours
20. What are the last two digit of the number 7^{45} ?
(A) 07 (B) 23
(C) 49 (D) 43

21. The gas in a balloon of volume 2 L is released into an empty vessel of volume 7 L. What will be the volume of the gas ?
(A) 2 L (B) 7 L
(C) 9 L (D) 5 L
22. Identify the element which shows variable valency.
(A) Helium (B) Magnesium
(C) Sodium (D) Iron
23. The speed of chemical reaction between gases increases with increase in pressure due to an increase in
(A) Number of molecules (B) Volume
(C) Concentration (D) Distance between molecules
24. The scientific principle behind the working of a transformer is
(A) Mutual induction (B) Transmission
(C) Rectification (D) Amplification
25. The outermost shell configuration of an element is $4s^24p^3$. The period to which the element belongs is
(A) 5 (B) 8
(C) 3 (D) 4
26. Nucleus is discovered by
(A) Robert Brown (B) Golgi
(C) Bowman (D) Fountain
27. Relationship between sea anemone and hermit crab is
(A) Symbiosis (B) Mutualism
(C) Commensalism (D) None of these
28. Acid rain is due to
(A) O_3 and dust (B) SO_2 and NO_2
(C) SO_3 and CO (D) CO_2 and CO
29. Green house effect is mainly due to
(A) CH_4 (B) SO_2
(C) CFC (D) CO_2
30. Which of the following is a water soluble Vitamin ?
(A) Calciferol (B) Tocoferol
(C) Ascorbic acid (D) Phyloquinone

31. Dada Saheb Phalke Award of 2017 was given to
 (A) Vinod Khanna (B) Rajesh Khanna
 (C) Rishi Kapoor (D) None of these
32. Which Article of the Indian Constitution empowers the President of India to declare financial emergency ?
 (A) Article 358 (B) Article 359
 (C) Article 360 (D) Article 363
33. Kerala Government's Kamala Surayya Award of 2017 for literary work was given to
 (A) Lalitha Sadasivam (B) K.P. Sudheera
 (C) P. Valsala (D) K.R. Meera
34. 'The Grand Design' is a work of
 (A) Stephen Hawking (B) John Gribbin
 (C) Marika Taylor (D) Dennis W. Sciama
35. Among the following who is not the recipient of Nobel prize in Chemistry in 2017 ?
 (A) Jacques Dubochet (B) Joachim Frank
 (C) Richard Henderson (D) Barry C. Barish
36. In 2018, the Oscar Award for best actor was given to Gary Oldman for his performance in
 (A) The Shape of Water (B) The Post
 (C) Darkest Hour (D) Dunkirk
37. In 2019, FIFA under-20 World Cup will be held in
 (A) England (B) Poland
 (C) South Africa (D) Germany
38. E. Harikumar got Sahitya Akademi (India's National Academy of Letters) Award for his work
 (A) Kama Surabhi (B) Thiranjedutha Prabandhomgal
 (C) Karutha Thampratti (D) Dinosarinte Kutti
39. The Chairman of the Public Accounts Committee is being appointed by
 (A) The President (B) The Vice President
 (C) Prime Minister (D) The Speaker of the Lok Sabha
40. Choolannur Bird Sanctuary is located at
 (A) Palakkad (B) Idukki
 (C) Thrissur (D) Pathanamthitta

41. Who was the First Woman President of the Indian National Congress ?
(A) Sarojini Naidu (B) Bikaji Kama
(C) Kamla Nehru (D) Annie Besant
42. In which state of India Subansiri Hydropower Project is located ?
(A) Madhya Pradesh (B) Assam
(C) Karnataka (D) Rajasthan
43. In which of the following sessions of INC, was national Anthem sung for the first time ?
(A) 1911 (B) 1930
(C) 1947 (D) 1956
44. Which is the longest National Highway in India ?
(A) NH 56 (B) NH 46
(C) NH 44 (D) NH 45
45. Which is the oldest oil field of India ?
(A) Digboi (B) Ankleshwar
(C) Bombay High (D) Masimpur
46. Kerala Highway Research Institute is located in
(A) Kottayam (B) Kozhikode
(C) Ernakulam (D) Thiruvananthapuram
47. The Urdu poet who was the representative of second and third Round Table Conferences ?
(A) Khan Abdul Gaffar Khan (B) Muhammed Iqbal
(C) Mirza Galib (D) Sardar Jafri
48. Which dam is located in Karamanathodu, an offspring of the Kabini River ?
(A) Cheruthoni Dam (B) Malankara Dam
(C) Banasurasagar Dam (D) Pazhassi Dam
49. Who authored the book Sidhanubhoothi ?
(A) V.T. Bhattathirippad (B) Chattampi Swamikal
(C) Ayyankali (D) Brahmananda Sivayogi
50. Which one of the following passes connects Arunachal Pradesh with Tibet ?
(A) Zoji La Pass (B) Debsa Pass
(C) Bomdi La Pass (D) Shipki La Pass

51. Constitution of India was adopted by constituent assembly on
(A) 1948 January 26 (B) 1949 November 26
(C) 1950 January 26 (D) 1950 November 26
52. Which of the following temple is not in Karnataka ?
(A) Brahmeswar (B) Kollur Mookambika
(C) Sravanabelgola (D) Chamundeswary
53. Teesta river is the tributary of
(A) Ganga (B) Yamuna
(C) Brahmaputra (D) Narmada
54. In which year a major earthquake occurred in Latur region ?
(A) 1993 (B) 1997
(C) 1998 (D) 2001
55. Which Indian state has declared Jackfruit as official fruit of state ?
(A) Karnataka (B) Kerala
(C) Tamil Nadu (D) Orissa
56. Which of the following Article of the Indian Constitution guarantees complete equality of men and women ?
(A) Article 25 (B) Article 21
(C) Article 18 (D) Article 15
57. The wild life sanctuary which is a part of Nilagiri Biosphere Reserve ?
(A) Chinnar (B) Prambikkulam
(C) Muthanga (D) Chulannur
58. Original name of Vagbhatananda ?
(A) Kunjan Pillai (B) Nanu Asan
(C) Kumara Guru (D) Kunjikannan
59. Surya Sen was associated with which of the event during Indian Freedom Struggle ?
(A) Chittagong Armoury Raid (B) Khilafat Movement
(C) Kheda Sathyagraha (D) Kakori Conspiracy
60. Who is known as the mother of Indian Revolution ?
(A) Aruna Asaf Ali (B) Madam Bhikaji Cama
(C) Sarojini Naidu (D) Pritilata Vadekar

61. The concept of single citizenship has been adopted from which country ?
(A) USA (B) France
(C) Italy (D) UK
62. Who presides over the joint sitting of the two houses of the Parliament ?
(A) President (B) Vice President
(C) Speaker (D) Chief Justice
63. Name the President of the Constituent Assembly of India.
(A) Rajendra Prasad (B) B.R. Ambedkar
(C) Sachidananda Sinha (D) B.N. Rau
64. By which Constitutional Amendment Act was the voting age lowered from 21 years to 18 years ?
(A) 42nd Amendment 1976 (B) 44th Amendment 1978
(C) 52nd Amendment 1985 (D) 61st Amendment 1988
65. The ministers of the state government are administered the oath of office by
(A) President (B) Governor
(C) Attorney General (D) Chief Justice
66. The President of India can be impeached for violation of the Constitution vide which article ?
(A) Article 52 (B) Article 61
(C) Article 74 (D) Article 78
67. Which of the following is appointed by the Governor of a state ?
(A) Finance Commission (B) UPSC
(C) State Election Commission (D) Inter State Council
68. The jurisdiction of which of the following high courts extends to the Union Territory of Lakshadweep ?
(A) Kerala (B) Tamil Nadu
(C) Bombay (D) Delhi
69. Which of the following subjects is included in the Concurrent List ?
(A) Agriculture (B) Public Health & Sanitation
(C) Local Government (D) Forests
70. National Voters Day is observed on which date ?
(A) 15th August (B) 2nd October
(C) 25th January (D) 26th January

71. Identify the subject in the sentence :
The first three chapters of the book are written in a beautiful style.
(A) The first (B) The first three
(C) The first three chapters (D) The first three chapters of the book
72. Choose the correctly spelled word.
(A) Adress (B) Addverse
(C) Altogether (D) Anounce
73. Identify the correct form of the word :
I _____ down every afternoon after lunch.
(A) lie (B) lay
(C) lied (D) am lying
74. Give one word substitute for :
Write words or letters in the letters of a different alphabet.
(A) Transitory (B) Transliterate
(C) Translate (D) Transcommunicate
75. Give the correct verb form :
He asked if anyone _____ his glasses.
(A) had seen (B) have seen
(C) seen (D) saw
76. Give the correct form of verb :
Many a cup and saucer _____ been broken.
(A) have (B) has
(C) is (D) are
77. Identify the meaning of italicized word :
The brothers *fell out* over their father's property.
(A) Fell down (B) Sold
(C) Continue (D) Quarrelled
78. Give the antonym of the italicized word :
His behaviour *disgusted* everyone.
(A) Gusted (B) Pleased
(C) Irritated (D) Surprised
79. Choose the correct option.
I should be grateful if you _____ send me an application form.
(A) will (B) would
(C) may (D) can
80. Choose the preposition :
The rule is applicable _____ everyone.
(A) of (B) with
(C) to (D) about

81. மேகம் என்ற பொருளைத் தரும் சொல்
- (A) பரிதி
(B) முகில்
(C) வையம்
(D) திங்கள்
82. ஆண்பால் விசுதி எது?
- (A) அன்
(B) அள்
(C) அர்
(D) வை
83. எண்ணூறு எப்படிப் பிரியும்?
- (A) எண்+நூறு
(B) எ+நூறு
(C) எட்டு+நூறு
(D) எண்+ணூறு
84. சினையாகு பெயருக்கு எடுத்துக்காட்டு
- (A) வெற்றிலை நட்டான்
(B) ஊர் சிரித்தது
(C) வெள்ளை அடித்தான்
(D) பொங்கல் உண்டான்
85. *Ask him not to worry* – என்பதன் சரியான மொழி பெயர்ப்பு
- (A) கவலைக்கான காரணத்தைச் சொல்லுங்கள்
(B) ஏன் கவலைப்படுகிறாய் என்று கேள்
(C) அவன் ஏன் கவலையுடன் இருக்கிறான்
(D) கவலைப்படாதே என்று அவனிடம் சொல்

86. சூரியன் என்ற பொருளைத் தரும் ஒரு சொல்
- (A) திங்கள்
(B) செவ்வாய்
(C) வெள்ளி
(D) ஞாயிறு
87. ஐவகைத் தமிழ் இலக்கண வகையின் சரியான வரிசைப் படி எது?
- (A) சொல், எழுத்து, பொருள், யாப்பு, அணி
(B) எழுத்து, சொல், பொருள், யாப்பு, அணி
(C) அணி, பொருள், சொல், எழுத்து, யாப்பு
(D) யாப்பு, அணி, பொருள், எழுத்து, சொல்
88. முத்தமிழ் என்பது
- (A) இயல், இசை, நாடகம்
(B) இசை, பாட்டு, நாடகம்
(C) இயல், உரை, நாடகம்
(D) இயல், இசை, பாட்டு
89. "சள சளக்குமாம் சண்டைக்குப் போகுமாம் அடக்கிக் கொண்டால் அகிலம் உனக்கு" – என்ற விடுகதையின் விடை
- (A) கண்
(B) சொல்
(C) நாக்கு
(D) கோபம்
90. இரண்டு முதலாக பல சொற்கள் தொடர்ந்து நின்று பொருளைத் தருவது
- (A) சொல்வழக்கு
(B) சொற்றொடர்
(C) மரபுச் சொல்
(D) தொகை நிலைத்தொடர்

91. In computer Logical operations are performed by
(A) Control Unit (B) ALU
(C) Primary Memory (D) CPU
92. _____ is a volatile memory ?
(A) SRAM (B) DRAM
(C) Both (A) & (B) (D) None of these
93. Which protocol is used in WWW ?
(A) PPP (B) IP
(C) FTP (D) HTTP
94. Expand GUI.
(A) Graphical User Instance (B) Graphical User Intermediate
(C) Graphical User Interface (D) Graphical Used Instance
95. IC chips are used in which generation of computer ?
(A) Second Generation (B) Third Generation
(C) Fourth Generation (D) Both (A) & (B)
96. Microsoft PowerPoint is an example of
(A) Operating System (B) Display Device
(C) Application Software (D) System Software
97. Website is a collection of
(A) Webpage (B) HTML Page
(C) Both (A) & (B) (D) HTTP Page
98. Bing is a
(A) Website (B) Business software
(C) Search engine (D) Social Media
99. Moving from one webpage to another webpage is known as
(A) Attaching (B) Changing
(C) Downloading (D) Browsing
100. Which of the following come under cyber crime ?
(A) IPR (B) Plagiarism
(C) Pornography (D) All of the above

SPACE FOR ROUGH WORK

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