

# 24/2019-T

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. Blank sheets of paper is attached to the question booklet. These 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.

24/2019-T-A





**24/2019-T**

Maximum : 100 Marks

Time : 1 hour and 15 minutes

1. A man sold two mobile phones at ₹ 4,500 each. He sold one at a loss of 15% and the other at a gain of 15%. His loss or gain is \_\_\_\_\_.

- (A) 15% gain (B) 15% loss  
(C) 2.25% gain (D) 2.25% loss

2. John started from his home and walked 12 km. Then he took a right turn and walked 4 km. Then again, he took a right turn and walked 8 km and finally took another right turn and walked 1 km. How far is he from his home now ?

- (A) 25 km (B) 9 km  
(C) 5 km (D) 3 km

3. \_\_\_\_\_ % of 21.6 is 64.8

- (A)  $33\frac{1}{3}$  (B)  $66\frac{2}{3}$   
(C) 300 (D) 200

4.  $\frac{(2.27)^3 + 3 \times (1.23)^2 \times (2.27) + 3 \times (2.27)^2 \times (1.23) + (1.23)^3}{(2.27 + 1.23)} = ?$

- (A) 12.25 (B) 3.5  
(C) 42.875 (D) 15.625

5. The L.C.M. of squares of two numbers is 12544 and the H.C.F. of the squares is 4. If one of the numbers is 14, what is the other number ?

- (A) 13 (B) 16  
(C) 256 (D) 196

A

3

**24/2019-T**  
**[P.T.O.]**

6. The ratio of number of men and women in a committee is 5:6. If the percentage increase in the number of men and women by 20% and 10% respectively, what will be the new ratio ?
- (A) 6:7 (B) 10:11  
(C) 9:10 (D) Cannot be determined.
7. Machines A and B working together can do a piece of work in 6 days. Only A can do it in 8 days. In how many days B alone could finish the work ?
- (A) 24 (B) 12  
(C) 16 (D) 20
8. A train 110 m long is running with a speed of 90 km/hr. In what time will it pass a boy who is running at 9 km/hr in the direction opposite to that in which the train is going ?
- (A) 6 sec (B) 8 sec  
(C) 5 sec (D) 4 sec
9. Volume of a cube with total surface area  $\frac{3}{2} \text{ m}^2$  is \_\_\_\_\_.
- (A)  $\frac{1}{4} \text{ m}^3$  (B)  $\frac{27}{8} \text{ m}^3$   
(C)  $\frac{1}{8} \text{ m}^3$  (D)  $\frac{9}{4} \text{ m}^3$
10. The angle between the minute hand and the hour hand of a clock when the time is 4:20 is
- (A)  $10^\circ$  (B)  $5^\circ$   
(C)  $0^\circ$  (D)  $8^\circ$

11. A number, when divided by 5, leaves a remainder 3. When the square of the number is divided by 5, the remainder is :
- (A) 3 (B) 4  
(C) 0 (D) 1
12. If ALPHABET is coded as ZKOGZADS, then NUMERAL is coded as :
- (A) MTLQDZK (B) MTLQDZK  
(C) MTQLDZK (D) MTDQLZK
13.  $3 : 27 :: 11 : ?$
- (A) 121 (B) 1221  
(C) 1331 (D) 1441
14. In the following numbers, find the odd one out :
- 41, 43, 45, 47
- (A) 41 (B) 43  
(C) 45 (D) 47
15. A woman walks 40 metres to the east of her house, then turns left and goes another 20 metres. Then turning to the west goes again 10 metres and starts walking to her house. In which direction she is walking now ?
- (A) North-East (B) North-West  
(C) South-East (D) South-West
16. B, D, G, K, \_\_\_\_\_.
- (A) R (B) M  
(C) O (D) P
17. 2000 January 1<sup>st</sup> was Saturday. What was the day in 1900 January 1<sup>st</sup> ?
- (A) Saturday (B) Sunday  
(C) Monday (D) Tuesday
18. On arranging the words ; Physics, Philosophy, Philately, Physical Education, Physiology as in a dictionary, the last word will be :
- (A) Physical Education (B) Physiology  
(C) Philosophy (D) Physics
19. A is the brother of B. C is the sister of D. B is the son of C. How is A related to C ?
- (A) Nephew (B) Son  
(C) Brother (D) Father
20. Find the missing number :
- 37, 50, \_\_\_\_, 82, 101
- (A) 63 (B) 64  
(C) 65 (D) 66

21. Father of mutation theory  
 (A) Hugo De Vries (B) Gregor Mendel  
 (C) Stanley Miller (D) Morgan
22. The frequency of ultrasound wave is typically  
 (A) Above 20,000 kHz (B) Below 20 kHz  
 (C) Above 20 kHz (D) Below 2 kHz
23. How much quantity of CO<sub>2</sub> reaches atmosphere, when 1 kg methane is burnt ?  
 (A) 3.03 kg (B) 3.50 kg  
 (C) 1.25 kg (D) 2.75 kg
24. The Hormone that regulates the rhythm of life is  
 (A) Prolactin (B) Auxin  
 (C) Cortisol (D) Melatonin
25. Speed of sound is higher in which of the following mediums ?  
 (A) Liquids (B) Solids  
 (C) Gases (D) All of these
26. In human 47 number of chromosomes (44 + XXY) is resulted in  
 (A) Klinefelter's Syndrome (B) Down Syndrome  
 (C) Edward Syndrome (D) Turner's Syndrome
27. Which type of light waves/rays used in remote control and night vision camera ?  
 (A) Ultraviolet (B) X-rays  
 (C) Infrared (D) Microwaves
28. Archaeopteryx is a connecting link of the following animals :  
 (A) Pisces and Amphibians (B) Reptiles and Aves  
 (C) Aves and Mammals (D) Amphibians and Reptiles
29. Refrigeration is a process which  
 (A) Kills bacteria (B) Inactivates the bacteria  
 (C) Slows down the bacterial growth (D) Plasmolysis the bacteria
30. Reduction is addition of  
 (A) Hydrogen (B) Water  
 (C) Oxygen (D) Benzene

31. Who wrote 'Calcutta Chromosome' ?  
(A) Anita Nair (B) Vikram Seth  
(C) Shashi Tharoor (D) Amitav Ghosh
32. Which country has declared 2019 as year of Tolerance ?  
(A) Japan (B) France  
(C) UAE (D) Spain
33. The National Farmer's Day is celebrated on  
(A) December 23 (B) November 20  
(C) November 12 (D) December 22
34. Which state in India set up Adhyatmik Vibhag (Spiritual department) ?  
(A) Uttar Pradesh (B) Madhya Pradesh  
(C) Assam (D) Gujarat
35. Which African country has declared the new political capital 'Gitega' ?  
(A) Burundi (B) Nigeria  
(C) Ethiopia (D) Namibia
36. India's first Music Museum to be set up at  
(A) Mysuru (B) Thiruvaiyaru  
(C) Uduppi (D) Varanasi
37. Who is the Chief Minister of Rajasthan ?  
(A) Biplav Dev (B) Vasundhara Raje Scindia  
(C) Kamal Nath (D) Ashok Gehlot
38. Who is the author of the book 'Changing India' ?  
(A) Ramnath Kovind (B) Venkaiya Naidu  
(C) Manmohan Singh (D) Arun Jaitley
39. Who won the National Award for Best Actress at the National Film Award 2018 ?  
(A) Sridevi (B) Dipika Padukone  
(C) Divya Dutta (D) Anushka Shetty
40. Who is the recipient of Nobel Prize for Economics for the year 2018 ?  
(A) James P. Allison (B) George Smith  
(C) Tasuku Honjo (D) Paul Romer

41. Name the hill station founded and settled by the British during the course of Gurkha War 1815-16.
- (A) Shimla (B) Mount Abu  
(C) Darjeeling (D) Nainital
42. F.W. Stevens designed which railway station in India ?
- (A) Char Bagh, Lucknow (B) Dudhsagar, Goa  
(C) Victoria Terminus, Bombay (D) Ghum, West Bengal
43. Oudh Kisan Sabha in 1920 organised by
- (A) Jawaharlal Nehru (B) Baba Ramachandra  
(C) Mahatma Gandhi (D) Alluri Sitaram Raja
44. Swaraj flag designed at the time of Swadeshi Movement :
- (A) Motilal Nehru (B) Bal Gangadhar Tilak  
(C) Devendranath Tagore (D) Gandhiji
45. 'Poduvaipu Era' commenced on
- (A) 1330 (B) 1341  
(C) 1342 (D) 1345
46. The natural western boundary of the Indian Subcontinent :
- (A) The Hindukush mountain (B) Kanchenjunga  
(C) Gouri-Sankar (D) Nanga Parbat
47. The tributary of lost river Saraswati :
- (A) Beas (B) Ravi  
(C) Jhelum (D) Sutlej
48. Tsunami affected Kerala on
- (A) 26<sup>th</sup> December, 2005 (B) 26<sup>th</sup> December, 2004  
(C) 28<sup>th</sup> December, 2004 (D) 28<sup>th</sup> December, 2005
49. As part of globalisation cardamom was imported to India from which country ?
- (A) Sri Lanka (B) Malaysia  
(C) Vietnam (D) Gautemala
50. The longest serving governor of RBI :
- (A) Benegal Ram Rau (B) C.D. Desmukh  
(C) Manmohan Singh (D) C. Rangarajan



51. 65% of soils of Kerala  
 (A) Red soil (B) Black soil  
 (C) Acid saline (D) Laterite
52. Biological park in Kerala  
 (A) Thattekkad (B) Agastya Mountain Region  
 (C) Silent Valley (D) Chinnar
53. Not a feature of New Economic Policy  
 (A) Privatisation (B) Liberalisation  
 (C) Socialisation (D) Globalisation
54. Roof of the world  
 (A) Pamir (B) Karakoram  
 (C) Aksaichin (D) Godwin Austin
55. Programme introduced to alleviate poverty in urban areas  
 (A) NRY (B) SGRY  
 (C) SJSY (D) SJSRY
56. The population of India has been growing continuously and rapidly after which year ?  
 (A) 1931 (B) 1926  
 (C) 1885 (D) 1921
57. Not a feature of horizontal diversification of crops  
 (A) Value added products of low agricultural goods  
 (B) Cultivation of good variety of crops  
 (C) Mixed crop farming  
 (D) Cultivate more than one crop
58. Karve Committee is related to  
 (A) Public sector (B) Small scale industry  
 (C) Basic and heavy industry (D) Agriculture
59. The policy of the government to protect domestic industries from foreign competition during the planning period is known as  
 (A) Globalisation (B) Modernisation  
 (C) Import Substitution (D) Nationalisation
60. A stone image of Buddha discovered in Kerala from  
 (A) Kottayam (B) Karumadi  
 (C) Karakkal (D) Kallil

61. The Parliament of India consists of  
 (A) President and Prime Minister  
 (B) Rajya Sabha and Lok Sabha  
 (C) President, Rajya Sabha and Lok Sabha  
 (D) President, Prime Minister and Council of Ministers
62. The Charter of Fundamental Rights in Indian Constitution is adopted from the Constitution of  
 (A) America (B) Canada  
 (C) Britain (D) France
63. To whom a Governor address his resignation ?  
 (A) President (B) Prime Minister  
 (C) Chief Minister (D) Chief Justice of High Court
64. Largest Union Territory in India in area is  
 (A) Chandigarh (B) Lakshadweep  
 (C) Daman and Diu (D) Andaman and Nicobar Islands
65. The retirement age of Supreme Court Judges is  
 (A) 62 (B) 65  
 (C) 60 (D) 70
66. Choose the Central Service among the following :  
 (A) Indian Administrative Service (B) Indian Police Service  
 (C) Indian Railway Service (D) Sales Tax Officers
67. The Chairman and members of Union Public Service Commission are appointed by  
 (A) Prime Minister (B) President  
 (C) Governor (D) Chief Justice of Supreme Court
68. Identify the Constitutional Amendment through which a List of Fundamental Duties was inserted to Indian Constitution.  
 (A) 38<sup>th</sup> Amendment (B) 44<sup>th</sup> Amendment  
 (C) 52<sup>nd</sup> Amendment (D) 42<sup>nd</sup> Amendment
69. The Provision regarding the appointment and conditions of service of the Comptroller and Auditor General of India are laid down in  
 (A) Article - 148 (B) Article - 324  
 (C) Article - 74 (D) Article - 280
70. Directive Principles of State Policy are enumerated in  
 (A) Part III (B) Part II  
 (C) Part IV (D) Part IX

71. Fill in the blank :  
The shop-keeper, along with his helpers, \_\_\_\_\_ the shop at 10 O'clock everyday.  
(A) opens (B) open  
(C) is opening (D) are opening
72. Choose the meaning of the underlined word :  
A disinterested referee controlled the title clash.  
(A) impartial (B) inexperienced  
(C) experienced (D) corrupt
73. Fill in the blank :  
Creativity is a quality that \_\_\_\_\_ architect must possess.  
(A) an (B) a  
(C) all (D) the
74. Fill in the blank :  
The customers are quite pleased \_\_\_\_\_ the new product.  
(A) in (B) by  
(C) at (D) with
75. Choose the correct reported form of the following sentence :  
"Did you have your lunch ?", Mother told the child.  
(A) Mother asked the child whether did he have his lunch.  
(B) Mother asked the child whether he had his lunch.  
(C) Mother asked the child whether did you have your lunch.  
(D) Mother asked the child whether you had your lunch.
76. The Panchayat is constructing a community hall in our ward.  
Choose the correct passive form of the above sentence.  
(A) A community hall is constructed in our ward.  
(B) A community hall has been being constructed in our ward.  
(C) A community hall is being constructed in our ward.  
(D) A community hall has been constructed in our ward.
77. "Intrepid" means  
(A) Brave (B) Cowardly  
(C) Wise (D) Foolish
78. 'Ewe' is a female \_\_\_\_\_.  
(A) elephant (B) parrot  
(C) sheep (D) boar
79. Replace the underlined word with one which is OPPOSITE to its meaning :  
Only indigent customers use this product.  
(A) poor (B) quality-conscious  
(C) affluent (D) local
80. "Be abreast of something" means  
(A) keep away from (B) be better than  
(C) be similar to (D) be up to date with

81. 'மேதினி' என்ற சொல்லின் பொருள்
- (A) வானம்
  - (B) உலகம்
  - (C) நிலவு
  - (D) சூரியன்
82. சரியான சொல்லைத் தேர்ந்தெடுத்து எழுதுக.
- (A) செயர்கை
  - (B) செயற்க்கை
  - (C) செயர்க்கை
  - (D) செயற்கை
83. 'Fully filled pot does not spill' – என்பதற்கு இணையானத் தமிழ் பழமொழி
- (A) குறைகுடம் கூத்தாடும்.
  - (B) நிறைகுடம் ததும்பும்.
  - (C) நிறைகுடம் ததும்பாது.
  - (D) குறைகுடம் ததும்பாது.
84. வயலும் வயல் சார்ந்த இடமும்
- (A) மருதம்
  - (B) நெய்தல்
  - (C) குறிஞ்சி
  - (D) முல்லை
85. சினை ஆகு பெயருக்கு எடுத்துக்காட்டு எது?
- (A) வெற்றிலை நட்டான்.
  - (B) கலிங்கம் வென்றது.
  - (C) கார் அறுத்தான்.
  - (D) வெள்ளை அடித்தான்.

86. நெடிற்றொடர்க் குற்றியலுகரம் எது ?
- (A) குரங்கு  
(B) தோப்பு  
(C) காது  
(D) கொக்கு
87. "The bird flew away from the nest" – என்ற வாக்கியத்தின் சரியான மொழி பெயர்ப்பு
- (A) ஒரு பறவைக் கூட்டிலிருந்து பறந்து சென்றது.  
(B) பறவைக் கூட்டிலிருந்து பறந்து சென்றது.  
(C) பறவைக் கூட்டை விட்டுப் பறக்கின்றது.  
(D) கூட்டிலிருந்து அந்தப் பறவை பறந்தது.
88. 'கொற்கை' என்ற நூலுக்கான சாகிதிய அகாதமி விருது பெற்றவர்
- (A) இன்குலாப்  
(B) ஜோ. டி. குருஸ்  
(C) டி. செல்வராஜ்  
(D) நாஞ்சில் நாடான்
89. சி. கல்யாணசுந்தரம் என்ற இயற் பெயர்க் கொண்டவர்
- (A) வண்ணதாசன்  
(B) வாணிதாசன்  
(C) கண்ணதாசன்  
(D) பாரதிதாசன்
90. 'சூர்ப்பனகை' என்னும் கதாபாத்திரம் இடம் பெற்றக் காவியம்
- (A) மகாபாரதம்  
(B) சீவக சிந்தாமணி  
(C) சிலப்பதிகாரம்  
(D) கம்பராமயணம்

91. The initial term of registration of a trademark in India is  
(A) 10 years (B) 15 years  
(C) 20 years (D) 25 years
92. Which among the following statements are true about registers inside a CPU ?  
(i) Registers are part of primary memory.  
(ii) Registers are volatile.  
(A) Only (i) is true. (B) Only (ii) is true.  
(C) Both (i) and (ii) are true. (D) Both (i) and (ii) are false.
93. The exclusive rights granted for an invention is called  
(A) Copyright (B) Patent  
(C) Trademark (D) Industrial design
94. An Amendment to the Indian IT Act was passed by Parliament in  
(A) 2006 (B) 2007  
(C) 2008 (D) 2009
95. Which Section of Indian IT Act was invalidated by Supreme Court of India ?  
(A) Section - 66A (B) Section - 66B  
(C) Section - 66C (D) Section - 66D
96. Attempting to acquire username, passwords, etc. by claiming as the original website of a popular website is called :  
(A) Hacking (B) Trojan Horse  
(C) Denial of Service attack (D) Phishing
97. Who is considered as the Father of Internet ?  
(A) Tim Berners Lee (B) Douglas Engelbart  
(C) Vinton Gray Cerf (D) Marc L. Andreessen
98. Which among the following is not an operating system ?  
(A) Windows (B) Linux  
(C) macOS (D) Safari
99. TCP/IP stands for  
(A) Transfer Control Protocol/Internal Protocol  
(B) Transfer Control Protocol/Internet Protocol  
(C) Transmission Control Protocol/Internal Protocol  
(D) Transmission Control Protocol/Internet Protocol
100. The speed of data transmission in internet is measured in  
(A) bits per minute (B) bytes per minute  
(C) bits per second (D) bytes per second

**SPACE FOR ROUGH WORK**

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