104/2018-K

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-K

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) $2\sqrt{2}$ cm^2
    (D) 4π 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. ಗೆರೆ ಎಳೆದ ಪದದ ವಚನವನ್ನು ಬರೆಯಿರಿ.

ಕಾಡಿನ ನಡುವೆ ಎತ್ತರತ್ತರಕ್ಕೆ ಬೆಳೆದ ಹುಲುಸಾದ ಹುಲ್ಲನ್ನು <u>ಜಿಂಕೆ</u>ಯ ಹೊಟ್ಟೆ ತುಂಬಾ ತಿಂದಿತು.

    (A) ಅವನು   (B) ಅವಳು

    (C) ಅವರು   (D) ಆದು

82. ಕೆಳಗೆ ನೀಡಿದ ಒಗಟಿಗೆ ಸರಿಯಾದ ಉತ್ತರವನ್ನು ಬರೆಯಿರಿ.

ನಿನ್ನ ಹೊಟ್ಟೆಯ ಮೇಲೆ ನನ್ನ ಹೊಟ್ಟೆ.

    (A) ಆಕಾಶ ಮತ್ತು ಭೂಮಿ   (B) ತಾವರೆ ಮತ್ತು ಕೊಳ

    (C) ಚಂದ್ರ, ಮತ್ತು ಸೂರ್ಯ   (D) ರಾಗಿಕಲ್ಲು

83. ಕೆಳಗೆ ನೀಡಿದ ಪದವನ್ನು ವಿಂಗಡಿಸಿ ಬರೆಯಿರಿ.

ಬೆಸಗೊಂಡಳೆಲ್ಲಿರ್ದೇಯೆಲೆತಾಯೆ

    (A) ಬೆಸ + ಕೊಂಡ + ಳೆಲ್ಲಿರ್ದೇ + ಎಲೆ + ತಾಯೆ

    (B) ಬೆಸಗು + ಒಂಡಳು + ಎಲ್ಲಿರ್ದೇ + ಎಲೆ + ತಾಯೆ

    (C) ಬೆಸಗೊಂಡಳೆಲ್ಲಿ + ಇರ್ದೇ + ಎಲೆ + ತಾಯೆ

    (D) ಬೆಸ + ಕೊಂಡಳು + ಎಲ್ಲಿ + ಇರ್ದೇ + ಎಲೆ + ತಾಯೆ

84. ಕೆಳಗಿನ ವಾಕ್ಯವನ್ನು ಸಂಯೋಜಿಸಿರಿ.

ರಾಮನು ಕಾಡಿಗೆ ಹೋದನು. ಸೀತೆಯೂ ಕಾಡಿಗೆ ಹೋದಳು.

    (A) ರಾಮನೂ ಸೀತೆಯೂ ಕಾಡಿಗೆ ಹೋದರು

    (B) ರಾಮನ ಜತೆಗೆ ಸೀತೆಯೂ ಕಾಡಿಗೆ ಹೋದಳು

    (C) ರಾಮನು ಸೀತೆಯೂ ಜೊತೆಯಾಗಿ ಕಾಡಿಗೆ ಹೋದರು

    (D) ರಾಮನು ಕಾಡಿಗೆ ಹೋದಾಗ, ಸೀತೆಯೂ ಹೋದಳು

85. ಕೆಳಗಿನ ಪ್ಯಾರವನ್ನು ಓದಿ ಕೊಟ್ಟ ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿರಿ.

ಮಲಯಾಳವು ಕೇರಳದ ರಾಜ್ಯ ಭಾಷೆಯಾಗಿದೆ. ಇದು ದ್ರಾವಿಡ ಭಾಷಾವರ್ಗಕ್ಕೆ ಸೇರಿದೆ. ತುಂಜತ್ತು ಉಳುತ್ತಚ್ಚನ್ ಅವರಿಂದ ರೂಪಿಸಲ್ಪಟ್ಟ ಭಾಷೆಯಾಗಿದೆ ಇದು. ಸಂಸ್ಕೃತದಿಂದ ಪ್ರಭಾವಿಸಲ್ಪಟ್ಟ ಭಾಷೆಗಳಲ್ಲಿ ಈ ಭಾಷೆಯೂ ಒಂದು.

    (A) ಮಲಯಾಳವು _____ ಭಾಷಾವರ್ಗಕ್ಕೆ ಸೇರಿದೆ.

    (B) ಮಲಯಾಳವು _____ ರಾಜ್ಯ ಭಾಷೆಯಾಗಿದೆ.

    (C) ಈ ಭಾಷೆಯನ್ನು _____ ರೂಪಿಸಿದರು.

    (D) ಈ ಭಾಷೆಯು _____ ದಿಂದ ಪ್ರಭಾವಿಸಲ್ಪಟ್ಟಿದೆ.

86. ಸರಿಯಾದ ಪದವನ್ನು ಆರಿಸಿ ಬರೆಯಿರಿ.

    (A) ಪರಮಾರ್ಥ

    (B) ಪರಮಾರ್ತ

    (C) ಪರಮಾರತ

    (D) ಪರಮ ತರ್ಥ

87. ವಿರೋಧ ಪದವನ್ನು ತಿಳಿಸಿರಿ.

ಸ್ವಾತಂತ್ರ್ಯ

    (A) ಸ್ವತಂತ್ರ

    (B) ಸ್ವಾತಂತ್ರ್ಯತೆ

    (C) ಸ್ವತಂತ್ರನಾಗು

    (D) ಪಾರಾತಂತ್ರ್ಯ

88. ಪರ್ಯಾಯ ಪದವನ್ನು ತಿಳಿಸಿರಿ.

ದೀಪ್ತಿ

    (A) ದೀಪ

    (B) ದೀವಟಿಕೆ

    (C) ನಕ್ಷತ್ರ

    (D) ಕಾಂತಿ

89. ಸಂಧಿ ಪದ ಮಾಡಿರಿ.

ಸರ್ವ + ಉತ್ತಮ

    (A) ಸರ್ವಉತ್ತಮ

    (B) ಸರ್ವತ್ತಮ

    (C) ಸರ್ವದಲ್ಲಿ ಉತ್ತಮ

    (D) ಸರ್ವೋತ್ತಮ

90. ಈ ಪದಕ್ಕೆ ಸರಿಯಾದ ಅರ್ಥ ಬರೆಯಿರಿ.

ದಾಂಡಿಗ

    (A) ದೃಢಕಾಯ

    (B) ದಾಡಿಗ

    (C) ದೋಣಿಗ

    (D) ಅಂಬಿಗ

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

SPACE FOR ROUGH WORK