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.
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) \(\frac{331}{3}\)                (B) \(\frac{662}{3}\)
   (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
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 $\frac{3}{2}$ m$^2$ is _____.

(A) $\frac{1}{4}$ m$^3$
(B) $\frac{27}{8}$ m$^3$
(C) $\frac{1}{8}$ m$^3$
(D) $\frac{9}{4}$ 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°
(B) 5°
(C) 0°
(D) 8°
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) MTLDQZK  (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 1st was Saturday. What was the day in 1900 January 1st?
   (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 CO₂ 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

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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 Hindu Kush      (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) 26th December, 2005  (B) 26th December, 2004
   (C) 28th December, 2004  (D) 28th 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) Bengal Ram Rau      (B) C.D. Desmukh
   (C) Manmohan Singh      (D) C. Rangarajan

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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 into Indian Constitution.
   (A) 38th Amendment (B) 44th Amendment
   (C) 52nd Amendment (D) 42nd 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

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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. എന്ന ഒരു അക്വൈലീറ്റിറ്റിൽ തീയതി തുറന്ന വാർത്ഥിമുണ്ടെങ്ങുന്നു വരെയാണെങ്കിലും അതിന്റെ തുറന്ന വാരം പിടിപ്പിക്കുക. കാരണം, ആശയഭാഗം അത്യധികം വിവരം അണ്ഡാമായി പിടിപ്പിക്കുകയാണ്
(A) എണ്ണംനിർത്തുക പിടിപ്പിക്കുക
(B) എണ്ണംനിർത്തുക പിടിപ്പിക്കുക
(C) എണ്ണംകൊണ്ട് പിടിപ്പിക്കുക
(D) എണ്ണംമുറിക്കുക

82. ‘ഖറോയകുട്ടിയുടെ’ കൊടുക്കാൻ എങ്ങിനെ ഉപയോഗിക്കുന്നതാണ് കാരണം?
(A) കായലംകൊണ്ട് പിടിപ്പിക്കുക
(B) ചിലവോലക്ക്
(C) കായലംകൊണ്ട് ചിലവോലക്ക്
(D) ചിലവോലം കൊണ്ട്

83. നീക്കപ്പെട്ട പ്രാണികൾ കാണാം.
(A) കായലം നീക്കപ്പെട്ട പ്രാണികൾ പിടിപ്പിക്കുക
(B) കായലം നീക്കപ്പെട്ട പ്രാണികൾ പിടിപ്പിക്കുക
(C) പിടിപ്പിക്കും കായലം നീക്കപ്പെട്ട പ്രാണികൾ
(D) പിടിപ്പിക്കും കായലം നീക്കപ്പെട്ട പ്രാണികൾ

84. ‘കായലംപെട്ട നിയവ കൊടുക്കുകാൻ’ എന്താണെന്ന് ഉറപ്പുകൊടുക്കുക?
(A) നല്ലനിർത്തുക
(B) ശ്രമിക്കുക
(C) കൊടുക്കുക
(D) അന്തരീക്ഷം

85. കായലും കൊടുക്കാൻ നീക്കപ്പെട്ട പ്രാണികൾ മാത്ര
(A) കായലും
(B) കായലും
(C) കായലും
(D) കായലും

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86. ഒരു ലോകത്തിലെ സാംസ്കാരിക സാംസ്കാരിക സംവിധാനങ്ങളിൽ അകലെ ഓരോ നിർദ്ദേശങ്ങളും
   (A) രാഷ്ട്രീയ വാദം
   (B) വ്യാവസായിക
   (C) സാംസ്കാരിക
   (D) സാമൂഹ്യശാസ്ത്ര വിഷयം

87. ആഭരണാംശ രൂപത്തിലെ സാംസ്കാരിക വിഭാഗങ്ങളിലേക്ക സഞ്ചരിക്കുന്ന സാംസ്കാരിക
   (A) സംസ്ഥാന ബാൻക്
   (B) സംസ്ഥാന മുൻപായൻ
   (C) സാംസ്കാരിക സാമൂഹ്യക്ഷേത്രം
   (D) സാമൂഹ്യ വിശ്വാസ

88. 2017 സെൻട്രൽ ഫോർമെയിൽ ബിസിനസ്സിങ്ങ് കോർപ്പസ് 'ഭൂരിമല കേന്ദ്ര അസീസ്' അനുബന്ധിച്ചു?
   (A) ഭൂരിമല കേന്ദ്രം
   (B) രാജ്യ മുൻപായൻ
   (C) സംസ്ഥാന സാമൂഹ്യക്ഷേത്രം
   (D) സാംസ്കാരിക സാമൂഹ്യക്ഷേത്രം

89. എല്ലാ കാലാവസ്ഥകളിലും ഉപയോഗിക്കാനുള്ള ഒരു വിശേഷണം
   (A) A mole of the eye
   (B) A dot of the eye
   (C) Apple of the eye
   (D) A small point of eye

90. സാമൂഹ്യീകരണെടുപ്പിന്റെ പ്രധാന അവസാനവിഭാഗം: ഒരു സ്വാതന്ത്ര്യം
   (A) Add oil on the fire
   (B) Oil to add the fire
   (C) Add flame to the fuel
   (D) To add fuel to the flame
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