A

(DO NOT OPEN THIS QUESTION BOOKLET BEFORE TIME OR UNTIL YOU ARE ASKED TO DO SO)

SET-Y

UG-4Yr.EE-June, 2025

SUBJECT : BCA

Sr. No. ....1.0.7.5.7.........

Time : 1¼ Hours   Max. Marks : 100   Total Questions : 100

Roll No. (in figures)_____ (in words) _____

Name _____ Date of Birth_____

Father's Name _____ Mother's Name_____

Date of Examination _____

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(Signature of the Candidate)   (Signature of the Invigilator)

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1. Who is known as the 'Father of the Indian Constitution' ?

    (1) Mahatma Gandhi

    (2) Jawaharlal Nehru

    (3) Sardar Vallabhbhai Patel

    (4) Bhim Rao Ambedkar

2. Which Indian state(s) is/are famous for the 'Kaziranga National Park', home to the one-horned rhinoceros ?

    (1) Uttarakhand   (2) Assam

    (3) UP- Haryana   (4) Rajasthan

3. The 'Quit India Movement' was launched in which year ?

    (1) 1930   (2) 1945

    (3) 1947   (4) 1942

4. Who is said to have invented the light bulb ?

    (1) Alexander Graham Bell

    (2) Marie Curie

    (3) Thomas Alva Edison

    (4) Nikola Tesla

5. The Gobi Desert is located in which continent ?

    (1) Africa   (2) North America

    (3) Asia   (4) South America

6. The 'Davis Cup' is associated with which of these following sports ?

(1) Football

(2) Cricket

(3) Hockey

(4) Tennis

7. The headquarters of the Reserve Bank of India is located in :

(1) New Delhi

(2) Kolkata

(3) Mumbai

(4) Chandigarh

8. The National Anthem of India, "Jana Gana Mana", was originally composed in which language ?

(1) Hindi

(2) Bengali

(3) Sanskrit

(4) Tamil

9. Who wrote the famous book 'Discovery of India' ?

(1) Mahatma Gandhi

(2) Rabindranath Tagore

(3) Jawaharlal Nehru

(4) Sardar Patel

10. Which country is said to be the largest democracy in the world ?

(1) USA   (2) China   (3) Russia   (4) India

11. Find the missing number in the series :

2, 5, 10, 17, ?, 37

(1) 24   (2) 26   (3) 28   (4) 30

12. In a certain code language, 'PALE' is coded as '2134' and 'EARTH' is coded as '41590'. How is 'PEARL' coded in that language ?

(1) 24153

(2) 25413

(3) 29413

(4) 24513

13. Find the odd one out :

(1) Lion

(2) Tiger

(3) Wolf

(4) Elephant

14. If today is Monday, what day will it be 61 days from now ?

(1) Saturday

(2) Sunday

(3) Monday

(4) Tuesday

15. A is the father of B. C is the daughter of B. D is the brother of B. E is the son of A. What is the relationship between C and D ?

(1) Nephew

(2) Aunt

(3) Niece

(4) Cousin

16. Arrange the following words in a meaningful sequence :

I.   Study

II. Job

III. Test/Examination

IV. Application

V.   Result

(1) I, III, V, IV, II

(2) I, IV, III, V, II

(3) I, II, III, IV, V

(4) IV, I, III, V, II

17. In a row of students, A is 12th from the left and B is 16th from the right. If they interchange their positions, A becomes 20th from the left. What is the total number of students in the row ?

(1) 34　　　　(2) 37　　　　(3) 36　　　　(4) 35

18. Select the related word from the given alternatives :

Book : Author :: Food : ?

(1) Utensils　　　　(2) Chef

(3) Hunger　　　　(4) Restaurant

19. Find the missing number in the series :

3, 7, 15, 31, ?, 127

(1) 60　　　　(2) 61　　　　(3) 63　　　　(4) 65

20. Pointing to a man, a woman said, "His mother is the only daughter of my mother.' How is the woman related to the man ?

(1) Mother　　　　(2) Sister

(3) Aunt　　　　(4) Grandmother

21. Which planet is known as the "Red Planet" ?

(1) Venus　　　　(2) Mars

(3) Jupiter　　　　(4) Saturn

22. Which gas do plants primarily absorb from the atmosphere for photosynthesis ?

(1) Oxygen　　　　(2) Nitrogen

(3) Carbon Dioxide　　　　(4) Hydrogen

23. Joule is the SI unit of which of the following ?

(1) Quality of jewellery　　　　(2) Resistance

(3) Power　　　　(4) Work done

24. Which of the following is a renewable source of energy ?

(1) Coal　　　　(2) Natural Gas

(3) Solar Energy　　　　(4) Petroleum

25. Graphite and diamond are ....

(1) Isomers　　　　(2) Isobars

(3) Isotopes　　　　(4) Allotropes

26. Deficiency of Vitamin D causes which disease ?

(1) Scurvy　　　　(2) Rickets

(3) Night Blindness　　　　(4) Beriberi

27. Which force is believed to keep planets in orbit around the Sun ?

(1) Electromagnetic force　　　　(2) Nuclear force

(3) Gravitational force　　　　(4) Frictional force

28. Which of the following is an example of a noble gas ?

(1) Oxygen　　　　(2) Nitrogen

(3) Carbon　　　　(4) Neon

29. Which gas is emitted as a result of a plant's respiration ?

    (1) Oxygen   (2) Greenhouse gases

    (3) Carbon dioxide   (4) Nitrogen

30. The phenomenon of light bending as it passes from one medium to another is called:

    (1) Reflection   (2) Refraction

    (3) Diffraction   (4) Dispersion

31. What is the sum of the first 21 whole numbers ?

    (1) 229   (2) 230   (3) 210   (4) 231

32. Which of the following is a prime number ?

    (1) 87   (2) 91   (3) 97   (4) All are prime

33. For two distinct natural numbers, which of the following is *true* ?

    (1) Their HCF and LCM can be the same.

    (2) Their HCF is always less than their LCM.

    (3) Their HCF is always more than their LCM.

    (4) None of the above may hold.

34. The product of two numbers is 2028, and their HCF is 13. What is their LCM ?

    (1) 156   (2) 13   (3) 2028   (4) 26364

35. Simplify :

$0.005 + (-0.5) + 0.05$

    (1) -0.445 (2) -0.505 (3) -0.105 (4) -0.65

36. What is 1.125 expressed as a common fraction ?

    (1) 1/4   (2) 1/8   (3) 3/16   (4) 9/8

37. Calculate :

0.25×0.04

    (1) 0.010   (2) 0.100   (3) 1.010   (4) 0.001

38. Which of the following is the smallest decimal fraction ?

    (1) 0.111   (2) 0.101   (3) 0.100   (4) 0.011

39. Convert 5/8 to a decimal.

    (1) 0.625   (2) 0.525   (3) 0.825   (4) 0.725

40. Calculate :

$15 \times 8 \div 4 + 6 - 3$

    (1) 33   (2) 36   (3) 29   (4) 27

41. Calculate :

$1/2 + 1/3 - 1/6$

    (1) 1/2   (2) 2/3   (3) 5/6   (4) 1/3

42. Simplify :

$3 \times (4 + 5) - 6/2$

    (1) 24   (2) 30   (3) 27   (4) 15

43. Find the value of square root of (0.0009).

    (1) 0.030

    (2) 0.081

    (3) 0.300

    (4) 0.0003

44. If $(X^2 - 1) = 195$, then X is :

    (1) 196

    (2) 44

    (3) 56

    (4) 14

45. The average of the first fifty whole numbers is :

    (1) 24

    (2) 25

    (3) 24.5

    (4) 1225

46. The average of 10, 8, X and 20 is 7. What is the value of X?

    (1) 10

    (2) –10

    (3) 7

    (4) 23

47. The average of 7 numbers is 30. If the average of the first three numbers is 25 and the average of the next three numbers is 35. What is the last number ?

    (1) 30

    (2) 20

    (3) 40

    (4) 25

48. The sum of X and Y is 25 and their difference is 13. Find X and Y.

    (1) 19, 6

    (2) 20, 5

    (3) 18, 7

    (4) 21, 4

49. Four-fifths of a number is –20. What is the number ?

    (1) –16

    (2) –25

    (3) 25

    (4) 16

50. The present age of a father is three times the present age of his son. After 10 years the father's age will be twice the son's age. What is the present age of the father?

    (1) 20 years

    (2) 50 years

    (3) 40 years

    (4) 30 years

51. Rahul is 5 years older than Rohan. If the sum of their ages is 35 years. What is Rahul's age ?

    (1) 15 years

    (2) 20 years

    (3) 25 years

    (4) 30 years

52. Express 145% as a fraction.

    (1) 29/20

    (2) 14/15

    (3) 40/45

    (4) 45/40

53. If 40 percent of a number is 57.2, then what is the number ?

    (1) 114.4

    (2) 134

    (3) 144.4

    (4) 143

54. A student obtains 135 with a percentage of 75. What is the maximum marks ?

    (1) 175

    (2) 180

    (3) 170

    (4) 165

55. If a seller increases selling price of a shirt by 10% of its base selling price Rs. 800 and offers a rebate of 10%. The new selling price will be :

    (1) Rs.800

    (2) Rs.792

    (3) Rs.880

    (4) Rs.808

56. If an item is sold for Rs. 455 at a loss of 9%. What was its cost price ?

    (1) Rs. 400

    (2) Rs. 495

    (3) Rs. 500

    (4) Rs. 550

57. If A : B = 3 : 4 and B : C = 8 : 9, then A : C is :

    (1) 1 : 2

    (2) 2 : 3

    (3) 3 : 2

    (4) 4 : 3

58. 'A' can do a piece of work in 10 days and 'B' can do it in 15 days. In how many days can 'A' and 'B' together complete the work ?

    (1) 75 days   (2) 12.5 days

    (3) 12 days   (4) 6 days

59. A 100 meters long train is moving at a speed of 72 km/hr. How long will it take to cross a pole ?

    (1) 5 seconds   (2) 10 seconds

    (3) 15 seconds   (4) 20 seconds

60. The difference between simple and compound interest (annually compounded) on a sum of Rs. 2,000 for 2 years at 5% per annum is :

    (1) Rs. 5   (2) Rs. 10

    (3) Rs. 20   (4) Rs. 50

61. The .... identifies a resource on the internet, such as a web page.

    (1) HTTP   (2) UUTP

    (3) URL   (4) HTML

62. Which of the following is a popular search engine ?

    (1) Chrome   (2) Firefox

    (3) MS Word   (4) Google

63. In a typical web address "www.example.com", what does the "com" indicate ?

    (1) Commercial organization

    (2) Company website

    (3) Community website

    (4) Communication protocol

64. What is a "bookmark" in a web browser used for ?

    (1) To save a page for offline reading

    (2) To mark a page for quick access

    (3) To print a page

    (4) To share a page on social media

65. What is phishing ?

    (1) A type of online game

    (2) An attempt to acquire sensitive information by disguising as a trustworthy entity

    (3) A method to speed up internet connection

    (4) A technique to create websites

66. Which of the following is a network security device (hardware or software) ?

    (1) Router   (2) Switch

    (3) Firewall   (4) Modem

67. The full form of Wi-Fi is :

    (1) Wireless Fidelity   (2) Wired Fibre

    (3) Wireless Filter   (4) Web-based Filter

68. Which of the following fields specify the email recipient(s) ?

(1) To

(2) Cc

(3) Bcc

(4) All of the above

69. In which lab did Timothy Berners Lee, the person behind HTTP work ?

(1) DRDO

(2) ISRO

(3) AT & T Lab

(4) CERN

70. What is "Spam" in the context of email ?

(1) Important official emails

(2) Unsolicited emails, often advertisements or scams

(3) Emails with large attachments

(4) Emails sent to yourself

71. Which part of the computer performs calculations and logical operations ?

(1) Monitor + Keyboard

(2) RAM + ROM

(3) CPU

(4) Calculator app

72. In normal setup of Windows, the area at the bottom of the screen that shows open applications is called :

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73. Which one of the following is not an operating system ?

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(2) Android

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(4) MS Office

74. Which of the following allows to adjust the date and time of your computer ?

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75. What does 'Draft' mean in email services ?

(1) An email that has been sent

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Read the following passage carefully and answer the questions no. (76-77) :

The history of coffee is as rich and complex as its flavour. Originating in the ancient coffee forests of Ethiopia, the legend says that goat herders first noticed the stimulating effects of the coffee plant when their goats became energetic after eating its berries. From Ethiopia, coffee travelled to the Arabian Peninsula, where it was first cultivated in Yemen. By the 15th century, coffee was being grown in the Yemeni district of Arabia and by the 16th century, it was known in Persia, Egypt, Syria, and Turkey.' Coffee was not just a drink but played an important role in social life. Coffee houses, known as *qahveh khaneh*, became centres for the exchange of information and for socializing.

Coffee reached Europe in the 17th century, where it initially faced suspicion, sometimes even being referred to as "the bitter invention of Satan." However, Pope Clement VIII after tasting it, reportedly approved it, and coffee soon became widely accepted. It became a popular beverage, replacing morning beers and wines, and contributed to increased sobriety and productivity. The first coffee houses in Europe opened in Venice in 1645. From Europe, coffee cultivation spread to the Dutch East Indies (Indonesia) and then to the Americas. Today, coffee is one of the world's most popular beverages, consumed globally in various forms.

76. Where is coffee believed to have originated ?

    (1) Arabian Peninsula   (2) Turkey

    (3) Yemen   (4) Ethiopia

77. What did goat herders reportedly observe about their goats after eating coffee berries ?

    (1) They became sleepy.

    (2) They became aggressive.

    (3) They refused to eat other plants.

    (4) They became energetic.

78. Arrange the following sentences to form a coherent paragraph.

    (A) She had no idea where to go or what to do.

    (B) After losing her way in the dense forest, a young girl felt lost.

    (C) Suddenly, she spotted a small, flickering light in the distance.

    (D) Hope surged through her as she cautiously moved towards it.

    (1) ABCD   (2) BACD

    (3) BCAD   (4) ADCB

79. Arrange the following sentences to form a coherent paragraph.

    (A) These tiny creatures play a crucial role in our ecosystem.

    (B) Bees are fascinating insects known for producing honey.

    (C) They are also vital for pollinating many plants and crops.

    (D) Without them, much of our food supply would be at risk.

    (1) BACD   (2) ADCB

    (3) BCAD   (4) CADB

80. Arrange the following sentences to form a coherent paragraph.

    (A) The internet has revolutionized communication.

    (B) It allows people to connect across vast distances instantly.

    (C) However, it also presents challenges like cyberbullying and misinformation.

    (D) Therefore, responsible usage is paramount.

    (1) ABCD   (2) ACBD

    (3) BADC   (4) CDBA

Directions (Q. 81-83): Choose the most appropriate sentence to complete the paragraph :

81. The rise of artificial intelligence has sparked a lot of debate. Some fear that AI could eventually replace human jobs, leading to widespread unemployment. Others argue that AI will create new types of jobs and enhance human productivity ....

    (1) AI is already used in self-driving cars.

    (2) This ongoing discussion highlights the complex implications of technological advancement.

    (3) Robots are becoming more common in factories.

    (4) Many people still prefer human interaction.

82. Exercise is crucial for maintaining good physical and mental health. Regular physical activity can reduce the risk of chronic diseases, improve mood, and boost energy levels .... It's important to find activities that you enjoy to make it a sustainable habit.

(1) Many people prefer indoor gyms.

(2) It also helps in weight management and strengthens bones.

(3) Eating healthy is also important for health.

(4) Some sports require special equipment.

83. Climate change is a pressing global issue. Rising global temperatures are leading to melting glaciers, rising sea levels, and more frequent extreme weather events. .... Immediate and collective action is needed to mitigate its effects.

(1) Weather forecasting has improved significantly.

(2) This phenomenon is largely attributed to human activities like burning fossil fuels.

(3) Renewable energy sources are becoming cheaper.

(4) Many countries are developing new technologies.

Directions (Q. 84-85): Choose the word closest in meaning to the given word (Synonym).

84. Abundant :

(1) Scarce   (2) Limited

(3) Rare   (4) Plentiful

85. Vigorous :

(1) Weak   (2) Energetic

(3) Slow   (4) Lethargic

Directions (Q. 86-87): Choose the word opposite in meaning to the given word (Antonym).

86. Ancient :

(1) Old   (2) Historic

(3) Past   (4) Modern

87. Optimist :

(1) Idealist   (2) Realist

(3) Pessimist   (4) Dreamer

88. Choose the correctly spelled word.

(1) Recieve   (2) Receive

(3) Recieve   (4) Recive

89. Choose the correctly spelled word.

(1) Occassion   (2) Occasion

(3) Ocassion   (4) Ocasione

90. Choose the correctly spelled word.

(1) Vaccum   (2) Vacuum

(3) Vaccuum   (4) Vaccumm

91. Choose the most appropriate one-word substitute for the given phrase.

A person who loves books.

(1) Philanthropist

(2) Bibliophile

(3) Cartographer

(4) Bookphobic

92. Choose the most appropriate one-word substitute for the given phrase.

One who knows many languages.

(1) Monolingual

(2) Bilingual

(3) Polyglot

(4) Linguist

93. Change the voice (Active-Passive): "She writes a letter."

(1) A letter is written by her.

(2) A letter was written by her.

(3) A letter has been written by her.

(4) A letter is being written by her.

94. . Change the voice (Active-Passive): "The ball was hit by the boy."

(1) The ball hit the boy.

(2) The boy hit the ball.

(3) The boy was hitting the ball.

(4) The ball has hit the boy.

95. Change the voice (Active-Passive): "They are building a new house."

(1) A new house is built by them.

(2) A new house was built by them.

(3) A new house is being built by them.

(4) A new house has been built by them.

96. Change the voice (Active-Passive): "The decision will be made by the committee."

(1) The committee will make the decision.

(2) The committee made the decision.

(3) The decision was made by the committee.

(4) The decision is made by the committee.

97. Change the speech (Direct-Indirect): "He said, 'I am going to school. '"

(1) He said that I was going to school.

(2) He said that he is going to school.

(3) He said that he was going to school.

(4) He said that he had gone to school.

98. Change the speech (Direct-Indirect): "She asked me if I could help her."

(1) She said to me, "Can you help me?"

(2) She said to me, "You can help me."

(3) She asked me, "Could you help her?"

(4) She asked me, "Can I help you?"

20

99. Change the speech (Direct-Indirect), choose the most appropriate: "He said to me, 'Don't go there:'"

   (1) He told me not to go there.

   (2) He asked me not to go there.

   (3) He ordered me not to go there.

   (4) He forbade me to go there.

100. Change the speech (Direct-Indirect): "She exclaimed with joy that she had won the prize."

   (1) She said, "I have won the prize!"

   (2) She said, "I won the prize!"

   (3) She said, "I had won the prize!"

   (4) She said, "Hurrah! I have won the prize!"

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Sr. No. ....10758.........

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    (1) Monitor + Keyboard   (2) RAM + ROM

    (3) CPU   (4) Calculator app

2. In normal setup of Windows, the area at the bottom of the screen that shows open applications is called :

    (1) Task Manager   (2) Desktop

    (3) Taskbar   (4) Control Panel

3. Which one of the following is not an operating system ?

    (1) Windows   (2) Android

    (3) Linux   (4) MS Office

4. Which of the following allows to adjust the date and time of your computer ?

    (1) File Explorer   (2) Task Manager

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5. What does 'Draft' mean in email services ?

    (1) An email that has been sent

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Read the following passage carefully and answer the questions no. (6-7) :

The history of coffee is as rich and complex as its flavour. Originating in the ancient coffee forests of Ethiopia, the legend says that goat herders first noticed the stimulating effects of the coffee plant when their goats became energetic after eating its berries. From Ethiopia, coffee travelled to the Arabian Peninsula, where it was first cultivated in Yemen. By the 15th century, coffee was being grown in the Yemeni district of Arabia and by the 16th century, it was known in Persia, Egypt, Syria, and Turkey.' Coffee was not just a drink but played an important role in social life. Coffee houses, known as *qahveh khaneh*, became centres for the exchange of information and for socializing.

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(A) These tiny creatures play a crucial role in our ecosystem.

(B) Bees are fascinating insects known for producing honey.

(C) They are also vital for pollinating many plants and crops.

(D) Without them, much of our food supply would be at risk.

(1) BACD   (2) ADCB

(3) BCAD   (4) CADB

10. Arrange the following sentences to form a coherent paragraph.

(A) The internet has revolutionized communication.

(B) It allows people to connect across vast distances instantly.

(C) However, it also presents challenges like cyberbullying and misinformation.

(D) Therefore, responsible usage is paramount.

(1) ABCD   (2) ACBD

(3) BADC   (4) CDBA

11. Rahul is 5 years older than Rohan. If the sum of their ages is 35 years. What is Rahul's age ?

(1) 15 years

(2) 20 years

(3) 25 years

(4) 30 years

12. Express 145% as a fraction.

(1) 29/20

(2) 14/15

(3) 40/45

(4) 45/40

13. If 40 percent of a number is 57.2, then what is the number ?

(1) 114.4

(2) 134

(3) 144.4

(4) 143

14. A student obtains 135 with a percentage of 75. What is the maximum marks ?

(1) 175

(2) 180

(3) 170

(4) 165

15. If a seller increases selling price of a shirt by 10% of its base selling price Rs. 800 and offers a rebate of 10%. The new selling price will be :

(1) Rs.800

(2) Rs.792

(3) Rs.880

(4) Rs.808

16. If an item is sold for Rs. 455 at a loss of 9%. What was its cost price ?

(1) Rs. 400

(2) Rs. 495

(3) Rs. 500

(4) Rs. 550

17. If $A : B = 3 : 4$ and $B : C = 8 : 9$, then $A : C$ is :

(1) $1 : 2$

(2) $2 : 3$

(3) $3 : 2$

(4) $4 : 3$

18. 'A' can do a piece of work in 10 days and 'B' can do it in 15 days. In how many days can 'A' and 'B' together complete the work ?

   (1) 75 days   (2) 12.5 days

   (3) 12 days   (4) 6 days

19. A 100 meters long train is moving at a speed of 72 km/hr. How long will it take to cross a pole ?

   (1) 5 seconds   (2) 10 seconds

   (3) 15 seconds   (4) 20 seconds

20. The difference between simple and compound interest (annually compounded) on a sum of Rs. 2,000 for 2 years at 5% per annum is :

   (1) Rs. 5   (2) Rs. 10

   (3) Rs. 20   (4) Rs. 50

21. What is the sum of the first 21 whole numbers ?

   (1) 229   (2) 230

   (3) 210   (4) 231

22. Which of the following is a prime number ?

   (1) 87   (2) 91

   (3) 97   (4) All are prime

UG-4Yr.-EE-June, 2025/(BCA)(SET-Y)/(B)   **P. T. O.**

23. For two distinct natural numbers, which of the following is *true* ?

    (1) Their HCF and LCM can be the same.

    (2) Their HCF is always less than their LCM.

    (3) Their HCF is always more than their LCM.

    (4) None of the above may hold.

24. The product of two numbers is 2028, and their HCF is 13. What is their LCM ?

    (1) 156   (2) 13   (3) 2028   (4) 26364

25. Simplify :

    $0.005 + (-0.5) + 0.05$

    (1) -0.445 (2) -0.505 (3) -0.105 (4) -0.65

26. What is 1.125 expressed as a common fraction ?

    (1) 1/4   (2) 1/8   (3) 3/16   (4) 9/8

27. Calculate :

    0.25×0.04

    (1) 0.010   (2) 0.100   (3) 1.010   (4) 0.001

28. Which of the following is the smallest decimal fraction ?

    (1) 0.111   (2) 0.101   (3) 0.100   (4) 0.011

29. Convert 5/8 to a decimal.

    (1) 0.625   (2) 0.525   (3) 0.825   (4) 0.725

30. Calculate :

$15 \times 8 \div 4 + 6 - 3$

(1) 33   (2) 36   (3) 29   (4) 27

31. Find the missing number in the series :

2, 5, 10, 17, ?, 37

(1) 24   (2) 26   (3) 28   (4) 30

32. In a certain code language, 'PALE' is coded as '2134' and 'EARTH' is coded as '41590'. How is 'PEARL' coded in that language ?

(1) 24153   (2) 25413

(3) 29413   (4) 24513

33. Find the odd one out :

(1) Lion   (2) Tiger

(3) Wolf   (4) Elephant

34. If today is Monday, what day will it be 61 days from now ?

(1) Saturday   (2) Sunday

(3) Monday   (4) Tuesday

35. A is the father of B. C is the daughter of B. D is the brother of B. E is the son of A. What is the relationship between C and D ?

(1) Nephew   (2) Aunt

(3) Niece   (4) Cousin

36. Arrange the following words in a meaningful sequence :

I.   Study

II. Job

III. Test/Examination

IV. Application

V. Result

(1) I, III, V, IV, II

(2) I, IV, III, V, II

(3) I, II, III, IV, V

(4) IV, I, III, V, II

37. In a row of students, A is 12th from the left and B is 16th from the right. If they interchange their positions, A becomes 20th from the left. What is the total number of students in the row ?

(1) 34

(2) 37

(3) 36

(4) 35

38. Select the related word from the given alternatives :

Book: Author :: Food: ?

(1) Utensils

(2) Chef

(3) Hunger

(4) Restaurant

39. Find the missing number in the series :

3, 7, 15, 31, ?, 127

(1) 60

(2) 61

(3) 63

(4) 65

40. Pointing to a man, a woman said, "His mother is the only daughter of my mother." How is the woman related to the man ?

(1) Mother

(2) Sister

(3) Aunt

(4) Grandmother

UG-4Yr.-EE-June, 2025/(BCA)(SET-Y)/(B)

41. Choose the most appropriate one-word substitute for the given phrase.

A person who loves books.

(1) Philanthropist

(2) Bibliophile

(3) Cartographer

(4) Bookphobic

42. Choose the most appropriate one-word substitute for the given phrase.

One who knows many languages.

(1) Monolingual

(2) Bilingual

(3) Polyglot

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43. Change the voice (Active-Passive): "She writes a letter."

(1) A letter is written by her.

(2) A letter was written by her.

(3) A letter has been written by her.

(4) A letter is being written by her.

44. . Change the voice (Active-Passive): "The ball was hit by the boy."

(1) The ball hit the boy.

(2) The boy hit the ball.

(3) The boy was hitting the ball.

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45. Change the voice (Active-Passive): "They are building a new house."

(1) A new house is built by them.

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46. Change the voice (Active-Passive): "The decision will be made by the committee."

(1) The committee will make the decision.

(2) The committee made the decision.

(3) The decision was made by the committee.

(4) The decision is made by the committee.

47. Change the speech (Direct-Indirect): "He said, 'I am going to school.'"

(1) He said that I was going to school.

(2) He said that he is going to school.

(3) He said that he was going to school.

(4) He said that he had gone to school.

48. Change the speech (Direct-Indirect): "She asked me if I could help her."

(1) She said to me, "Can you help me?"

(2) She said to me, "You can help me."

(3) She asked me, "Could you help her?"

(4) She asked me, "Can I help you?"

UG-4Yr.-EE-June, 2025/(BCA)(SET-Y)/(B)

49. Change the speech (Direct-Indirect), choose the most appropriate: "He said to me. 'Don't go there:"

(1) He told me not to go there.

(2) He asked me not to go there.

(3) He ordered me not to go there.

(4) He forbade me to go there.

50. Change the speech (Direct-Indirect): "She exclaimed with joy that she had won the prize."

(1) She said, "I have won the prize!"

(2) She said, "I won the prize!"

(3) She said, "I had won the prize!"

(4) She said, "Hurrah! I have won the prize!"

51. The .... identifies a resource on the internet, such as a web page.

(1) HTTP   (2) UUTP

(3) URL   (4) HTML

52. Which of the following is a popular search engine ?

(1) Chrome   (2) Firefox

(3) MS Word   (4) Google

53. In a typical web address "www.example.com", what does the "com" indicate ?

(1) Commercial organization

(2) Company website

(3) Community website

(4) Communication protocol

54. What is a "bookmark" in a web browser used for ?

(1) To save a page for offline reading

(2) To mark a page for quick access

(3) To print a page

(4) To share a page on social media

55. What is phishing ?

(1) A type of online game

(2) An attempt to acquire sensitive information by disguising as a trustworthy entity

(3) A method to speed up internet connection

(4) A technique to create websites

56. Which of the following is a network security device (hardware or software) ?

(1) Router   (2) Switch

(3) Firewall   (4) Modem

57. The full form of Wi-Fi is :

(1) Wireless Fidelity   (2) Wired Fibre

(3) Wireless Filter   (4) Web-based Filter

58. Which of the following fields specify the email recipient(s) ?

    (1) To   (2) Cc

    (3) Bcc   (4) All of the above

59. In which lab did Timothy Berners Lee, the person behind HTTP work ?

    (1) DRDO   (2) ISRO

    (3) AT & T Lab   (4) CERN

60. What is "Spam" in the context of email ?

    (1) Important official emails

    (2) Unsolicited emails, often advertisements or scams

    (3) Emails with large attachments

    (4) Emails sent to yourself

Directions (Q. 61-63): *Choose the most appropriate sentence to complete the paragraph :*

61. The rise of artificial intelligence has sparked a lot of debate. Some fear that AI could eventually replace human jobs, leading to widespread unemployment. Others argue that AI will create new types of jobs and enhance human productivity ....

    (1) AI is already used in self-driving cars.

    (2) This ongoing discussion highlights the complex implications of technological advancement.

    (3) Robots are becoming more common in factories.

    (4) Many people still prefer human interaction.

62. Exercise is crucial for maintaining good physical and mental health. Regular physical activity can reduce the risk of chronic diseases, improve mood, and boost energy levels .... It's important to find activities that you enjoy to make it a sustainable habit.

(1) Many people prefer indoor gyms.

(2) It also helps in weight management and strengthens bones.

(3) Eating healthy is also important for health.

(4) Some sports require special equipment.

63. Climate change is a pressing global issue. Rising global temperatures are leading to melting glaciers, rising sea levels, and more frequent extreme weather events. .... Immediate and collective action is needed to mitigate its effects.

(1) Weather forecasting has improved significantly.

(2) This phenomenon is largely attributed to human activities like burning fossil fuels.

(3) Renewable energy sources are becoming cheaper.

(4) Many countries are developing new technologies.

Directions (Q. 64-65): Choose the word closest in meaning to the given word (Synonym).

64. Abundant :

(1) Scarce   (2) Limited

(3) Rare   (4) Plentiful

UG-4Yr.-EE-June, 2025/(BCA)(SET-Y)/(B)

65. Vigorous :

(1) Weak

(2) Energetic

(3) Slow

(4) Lethargic

Directions (Q. 66-67): Choose the word opposite in meaning to the given word (Antonym).

66. Ancient :

(1) Old

(2) Historic

(3) Past

(4) Modern

67. Optimist :

(1) Idealist

(2) Realist

(3) Pessimist

(4) Dreamer

68. Choose the correctly spelled word.

(1) Recieve

(2) Receive

(3) Recieve

(4) Recive

69. Choose the correctly spelled word.

(1) Occassion

(2) Occasion

(3) Ocassion

(4) Ocasione

70. Choose the correctly spelled word.

(1) Vaccum

(2) Vacuum

(3) Vaccuum

(4) Vaccumm

71. Calculate :

$1/2 + 1/3 - 1/6$

(1) 1/2   (2) 2/3   (3) 5/6   (4) 1/3

72. Simplify :

$3 \times (4 + 5) - 6/2$

(1) 24   (2) 30   (3) 27   (4) 15

73. Find the value of square root of (0.0009).

(1) 0.030   (2) 0.081   (3) 0.300   (4) 0.0003

74. If $(X^2 - 1) = 195$, then X is :

(1) 196   (2) 44   (3) 56   (4) 14

75. The average of the first fifty whole numbers is :

(1) 24   (2) 25   (3) 24.5   (4) 1225

76. The average of 10, 8, X and 20 is 7. What is the value of X?

(1) 10   (2) −10   (3) 7   (4) 23

77. The average of 7 numbers is 30. If the average of the first three numbers is 25 and the average of the next three numbers is 35. What is the last number ?

(1) 30   (2) 20   (3) 40   (4) 25

78. The sum of X and Y is 25 and their difference is 13. Find X and Y.

(1) 19, 6   (2) 20, 5   (3) 18, 7   (4) 21, 4

UG-4Yr.-EE-June, 2025/(BCA)(SET-Y)/(B)

79. Four-fifths of a number is −20. What is the number ?

(1) −16

(2) −25

(3) 25

(4) 16

80. The present age of a father is three times the present age of his son. After 10 years the father's age will be twice the son's age. What is the present age of the father?

(1) 20 years

(2) 50 years

(3) 40 years

(4) 30 years

81. Which planet is known as the "Red Planet" ?

(1) Venus

(2) Mars

(3) Jupiter

(4) Saturn

82. Which gas do plants primarily absorb from the atmosphere for photosynthesis ?

(1) Oxygen

(2) Nitrogen

(3) Carbon Dioxide

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83. Joule is the SI unit of which of the following ?

(1) Quality of jewellery

(2) Resistance

(3) Power

(4) Work done

84. Which of the following is a renewable source of energy ?

(1) Coal

(2) Natural Gas

(3) Solar Energy

(4) Petroleum

UG-4Yr.-EE-June, 2025/(BCA)(SET-Y)/(B)   **P. T. O.**

18

85. Graphite and diamond are ....

(1) Isomers   (2) Isobars

(3) Isotopes   (4) Allotropes

86. Deficiency of Vitamin D causes which disease ?

(1) Scurvy   (2) Rickets

(3) Night Blindness   (4) Beriberi

87. Which force is believed to keep planets in orbit around the Sun ?

(1) Electromagnetic force   (2) Nuclear force

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88. Which of the following is an example of a noble gas ?

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90. The phenomenon of light bending as it passes from one medium to another is called:

(1) Reflection   (2) Refraction

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91. Who is known as the 'Father of the Indian Constitution' ?

(1) Mahatma Gandhi

(2) Jawaharlal Nehru

(3) Sardar Vallabhbhai Patel

(4) Bhim Rao Ambedkar

92. Which Indian state(s) is/are famous for the 'Kaziranga National Park', home to the one-horned rhinoceros ?

(1) Uttarakhand

(2) Assam

(3) UP- Haryana

(4) Rajasthan

93. The 'Quit India Movement' was launched in which year ?

(1) 1930

(2) 1945

(3) 1947

(4) 1942

94. Who is said to have invented the light bulb ?

(1) Alexander Graham Bell

(2) Marie Curie

(3) Thomas Alva Edison

(4) Nikola Tesla

95. The Gobi Desert is located in which continent ?

(1) Africa

(2) North America

(3) Asia

(4) South America

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96. The 'Davis Cup' is associated with which of these following sports ?

(1) Football

(2) Cricket

(3) Hockey

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97. The headquarters of the Reserve Bank of India is located in :

(1) New Delhi

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(3) Jawaharlal Nehru

(4) Sardar Patel

100. Which country is said to be the largest democracy in the world ?

(1) USA

(2) China

(3) Russia

(4) India

(DO NOT OPEN THIS QUESTION BOOKLET BEFORE TIME OR UNTIL YOU ARE ASKED TO DO SO)

C

UG-4Yr.EE-June, 2025

SET-Y

SUBJECT : BCA

Sr. No. *10759*

Time : **1¼ Hours**   Max. Marks : **100**   Total Questions : **100**

Roll No. (in figures)_____ (in words) _____

Name _____ Date of Birth_____

Father's Name _____ Mother's Name_____

Date of Examination _____

_____   _____
(Signature of the Candidate)   (Signature of the Invigilator)

CANDIDATES MUST READ THE FOLLOWING INFORMATION/INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.

1. *All questions are compulsory.*

2. The candidates *must return* the question booklet as well as OMR Answer-Sheet to the Invigilator concerned before leaving the Examination Hall, failing which a case of use of unfair-means / mis-behaviour will be registered against him / her, in addition to lodging of an FIR with the police. Further the answer-sheet of such a candidate will not be evaluated.

3. Keeping in view the transparency of the examination system, carbonless OMR Sheet is provided to the candidate so that a copy of OMR Sheet may be kept by the candidate.

4. Question Booklet along with answer key of all the A, B, C & D code shall be got uploaded on the University Website immediately after the conduct of Entrance Examination. Candidates may raise valid objection/complaint if any, with regard to discrepancy in the question booklet/answer key within 24 hours of uploading the same on the University Website. The complaint be sent by the students to the Controller of Examinations by hand or through email. Thereafter, no complaint in any case, will be considered.

5. The candidate *must not* do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the question booklet itself. Answers *must not* be ticked in the question booklet.

6. *There will be no negative marking. Each correct answer will be awarded one full mark. Cutting, erasing, overwriting and more than one answer in OMR Answer-Sheet will be treated as incorrect answer.*

7. Use only **Black** or **Blue Ball Point Pen** of good quality in the OMR Answer-Sheet.

8. *Before answering the questions, the candidates should ensure that they have been supplied correct and complete booklet. Complaints, if any, regarding misprinting etc. will not be entertained* **30** *minutes after starting of the examination.*

UG-4Yr.-EE-June, 2025/(BCA)(SET-Y)/(C)

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(2) She said, "I won the prize!"

(3) She said, "I had won the prize!"

(4) She said, "Hurrah! I have won the prize!"

41. The .... identifies a resource on the internet, such as a web page.

(1) HTTP   (2) UUTP

(3) URL   (4) HTML

42. Which of the following is a popular search engine ?

(1) Chrome   (2) Firefox

(3) MS Word   (4) Google

43. In a typical web address "www.example.com", what does the "com" indicate ?

    (1) Commercial organization

    (2) Company website

    (3) Community website

    (4) Communication protocol

44. What is a "bookmark" in a web browser used for ?

    (1) To save a page for offline reading

    (2) To mark a page for quick access

    (3) To print a page

    (4) To share a page on social media

45. What is phishing ?

    (1) A type of online game

    (2) An attempt to acquire sensitive information by disguising as a trustworthy entity

    (3) A method to speed up internet connection

    (4) A technique to create websites

46. Which of the following is a network security device (hardware or software) ?

    (1) Router   (2) Switch

    (3) Firewall   (4) Modem

47. The full form of Wi-Fi is :

    (1) Wireless Fidelity   (2) Wired Fibre

    (3) Wireless Filter   (4) Web-based Filter

48. Which of the following fields specify the email recipient(s) ?

    (1) To   (2) Cc

    (3) Bcc   (4) All of the above

49. In which lab did Timothy Berners Lee, the person behind HTTP work ?

    (1) DRDO   (2). ISRO

    (3) AT & T Lab   (4) CERN

50. What is "Spam" in the context of email ?

    (1) Important official emails

    (2) Unsolicited emails, often advertisements or scams

    (3) Emails with large attachments

    (4) Emails sent to yourself

51. What is the sum of the first 21 whole numbers ?

    (1) 229   (2) 230   (3) 210   (4) 231

52. Which of the following is a prime number ?

    (1) 87   (2) 91   (3) 97   (4) All are prime

53. For two distinct natural numbers, which of the following is *true* ?

    (1) Their HCF and LCM can be the same.

    (2) Their HCF is always less than their LCM.

    (3) Their HCF is always more than their LCM.

    (4) None of the above may hold.

54. The product of two numbers is 2028, and their HCF is 13. What is their LCM ?

    (1) 156   (2) 13   (3) 2028   (4) 26364

55. Simplify :

    $0.005 + (-0.5) + 0.05$

    (1) -0.445 (2) -0.505 (3) -0.105 (4) -0.65

56. What is 1.125 expressed as a common fraction ?

    (1) 1/4   (2) 1/8   (3) 3/16   (4) 9/8

57. Calculate :

    0.25×0.04

    (1) 0.010   (2) 0.100   (3) 1.010   (4) 0.001

58. Which of the following is the smallest decimal fraction ?

    (1) 0.111   (2) 0.101   (3) 0.100   (4) 0.011

59. Convert 5/8 to a decimal.

    (1) 0.625   (2) 0.525   (3) 0.825   (4) 0.725

60. Calculate :

    $15 \times 8 \div 4 + 6 - 3$

    (1) 33   (2) 36   (3) 29   (4) 27

12

61. Which part of the computer performs calculations and logical operations ?

(1) Monitor + Keyboard

(2) RAM + ROM

(3) CPU

(4) Calculator app

62. In normal setup of Windows, the area at the bottom of the screen that shows open applications is called :

(1) Task Manager

(2) Desktop

(3) Taskbar

(4) Control Panel

63. Which one of the following is not an operating system ?

(1) Windows

(2) Android

(3) Linux

(4) MS Office

64. Which of the following allows to adjust the date and time of your computer ?

(1) File Explorer

(2) Task Manager

(3) Control Panel

(4) Taskbar

65. What does 'Draft' mean in email services ?

(1) An email that has been sent

(2) A received spam email

(3) A deleted spam email

(4) An email saved but not yet sent

UG-4Yr.-EE-June, 2025/(BCA)(SET-Y)/(C)

Read the following passage carefully and answer the questions no. (66-67) :

The history of coffee is as rich and complex as its flavour. Originating in the ancient coffee forests of Ethiopia, the legend says that goat herders first noticed the stimulating effects of the coffee plant when their goats became energetic after eating its berries. From Ethiopia, coffee travelled to the Arabian Peninsula, where it was first cultivated in Yemen. By the 15th century, coffee was being grown in the Yemeni district of Arabia and by the 16th century, it was known in Persia, Egypt, Syria, and Turkey.' Coffee was not just a drink but played an important role in social life. Coffee houses, known as *qahveh khaneh*, became centres for the exchange of information and for socializing.

Coffee reached Europe in the 17th century, where it initially faced suspicion, sometimes even being referred to as "the bitter invention of Satan." However, Pope Clement VIII after tasting it, reportedly approved it, and coffee soon became widely accepted. It became a popular beverage, replacing morning beers and wines, and contributed to increased sobriety and productivity. The first coffee houses in Europe opened in Venice in 1645. From Europe, coffee cultivation spread to the Dutch East Indies (Indonesia) and then to the Americas. Today, coffee is one of the world's most popular beverages, consumed globally in various forms.

66. Where is coffee believed to have originated ?

    (1) Arabian Peninsula

    (2) Turkey.

    (3) Yemen

    (4) Ethiopia

67. What did goat herders reportedly observe about their goats after eating coffee berries ?

    (1) They became sleepy.

    (2) They became aggressive.

    (3) They refused to eat other plants.

    (4) They became energetic.

14

68. Arrange the following sentences to form a coherent paragraph.

(A) She had no idea where to go or what to do.

(B) After losing her way in the dense forest, a young girl felt lost.

(C) Suddenly, she spotted a small, flickering light in the distance.

(D) Hope surged through her as she cautiously moved towards it.

(1) ABCD   (2) BACD

(3) BCAD   (4) ADCB

69. Arrange the following sentences to form a coherent paragraph.

(A) These tiny creatures play a crucial role in our ecosystem.

(B) Bees are fascinating insects known for producing honey.

(C) They are also vital for pollinating many plants and crops.

(D) Without them, much of our food supply would be at risk.

(1) BACD   (2) ADCB

(3) BCAD   (4) CADB

70. Arrange the following sentences to form a coherent paragraph.

(A) The internet has revolutionized communication.

(B) It allows people to connect across vast distances instantly.

(C) However, it also presents challenges like cyberbullying and misinformation.

(D) Therefore, responsible usage is paramount.

(1) ABCD   (2) ACBD

(3) BADC   (4) CDBA

Directions (Q. 71-73): *Choose the most appropriate sentence to complete the paragraph :*

71. The rise of artificial intelligence has sparked a lot of debate. Some fear that AI could eventually replace human jobs, leading to widespread unemployment. Others argue that AI will create new types of jobs and enhance human productivity ....

    (1) AI is already used in self-driving cars.

    (2) This ongoing discussion highlights the complex implications of technological advancement.

    (3) Robots are becoming more common in factories.

    (4) Many people still prefer human interaction.

72. Exercise is crucial for maintaining good physical and mental health. Regular physical activity can reduce the risk of chronic diseases, improve mood, and boost energy levels .... It's important to find activities that you enjoy to make it a sustainable habit.

    (1) Many people prefer indoor gyms.

    (2) It also helps in weight management and strengthens bones.

    (3) Eating healthy is also important for health.

    (4) Some sports require special equipment.

73. Climate change is a pressing global issue. Rising global temperatures are leading to melting glaciers, rising sea levels, and more frequent extreme weather events. .... Immediate and collective action is needed to mitigate its effects.

    (1) Weather forecasting has improved significantly.

    (2) This phenomenon is largely attributed to human activities like burning fossil fuels.

    (3) Renewable energy sources are becoming cheaper.

    (4) Many countries are developing new technologies.

16

74. Abundant :

    (1) Scarce   (2) Limited

    (3) Rare   (4) Plentiful

75. Vigorous :

    (1) Weak   (2) Energetic

    (3) Slow   (4) Lethargic

76. Ancient :

    (1) Old   (2) Historic

    (3) Past   (4) Modern

77. Optimist :

    (1) Idealist   (2) Realist

    (3) Pessimist   (4) Dreamer

78. Choose the correctly spelled word.

    (1) Recieve   (2) Receive

    (3) Recieve   (4) Recive

79. Choose the correctly spelled word.

(1) Occassion

(2) Occasion

(3) Ocassion

(4) Ocasione

80. Choose the correctly spelled word.

(1) Vaccum

(2) Vacuum

(3) Vaccuum

(4) Vaccumm

81. Find the missing number in the series :

2, 5, 10, 17, ?, 37

(1) 24   (2) 26   (3) 28   (4) 30

82. In a certain code language, 'PALE' is coded as '2134' and 'EARTH' is coded as '41590'. How is 'PEARL' coded in that language ?

(1) 24153

(2) 25413

(3) 29413

(4) 24513

83. Find the odd one out :

(1) Lion

(2) Tiger

(3) Wolf

(4) Elephant

84. If today is Monday, what day will it be 61 days from now ?

(2) Sunday

(1) Saturday

(4) Tuesday

(3) Monday

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85. A is the father of B. C is the daughter of B. D is the brother of B. E is the son of A. What is the relationship between C and D ?

(1) Nephew

(2) Aunt

(3) Niece

(4) Cousin

86. Arrange the following words in a meaningful sequence :

I. Study

II. Job

III. Test/Examination

IV. Application

V. Result

(1) I, III, V, IV, II

(2) I, IV, III, V, II

(3) I, II, III, IV, V

(4) IV, I, III, V, II

87. In a row of students, A is 12th from the left and B is 16th from the right. If they interchange their positions, A becomes 20th from the left. What is the total number of students in the row ?

(1) 34

(2) 37

(3) 36

(4) 35

88. Select the related word from the given alternatives :

Book: Author :: Food: ?

(1) Utensils

(2) Chef

(3) Hunger

(4) Restaurant

89. Find the missing number in the series :

3, 7, 15, 31, ?, 127

(1) 60

(2) 61

(3) 63

(4) 65

UG-4Yr.-EE-June, 2025/(BCA)(SET-Y)/(C)

90. Pointing to a man, a woman said, "His mother is the only daughter of my mother.' How is the woman related to the man ?

(1) Mother

(2) Sister

(3) Aunt

(4) Grandmother

91. Rahul is 5 years older than Rohan. If the sum of their ages is 35 years. What is Rahul's age ?

(1) 15 years

(2) 20 years

(3) 25 years

(4) 30 years

92. Express 145% as a fraction.

(1) 29/20

(2) 14/15

(3) 40/45

(4) 45/40

93. If 40 percent of a number is 57.2, then what is the number ?

(1) 114.4

(2) 134

(3) 144.4

(4) 143

94. A student obtains 135 with a percentage of 75. What is the maximum marks ?

(1) 175

(2) 180

(3) 170

(4) 165

95. If a seller increases selling price of a shirt by 10% of its base selling price Rs. 800 and offers a rebate of 10%. The new selling price will be :

(1) Rs.800

(2) Rs.792

(3) Rs.880

(4) Rs.808

96. If an item is sold for Rs. 455 at a loss of 9%. What was its cost price ?

(1) Rs. 400

(2) Rs. 495

(3) Rs. 500

(4) Rs. 550

97. If A : B = 3 : 4 and B : C = 8 : 9, then A : C is :

(1) 1 : 2   (2) 2 : 3   (3) 3 : 2   (4) 4 : 3

98. 'A' can do a piece of work in 10 days and 'B' can do it in 15 days. In how many days can 'A' and 'B' together complete the work ?

(1) 75 days

(2) 12.5 days

(3) 12 days

(4) 6 days

99. A 100 meters long train is moving at a speed of 72 km/hr. How long will it take to cross a pole ?

(1) 5 seconds

(2) 10 seconds

(3) 15 seconds

(4) 20 seconds

100. The difference between simple and compound interest (annually compounded) on a sum of Rs. 2,000 for 2 years at 5% per annum is :

(1) Rs. 5

(2) Rs. 10

(3) Rs. 20

(4) Rs. 50

(DO NOT OPEN THIS QUESTION BOOKLET BEFORE TIME OR UNTIL YOU ARE ASKED TO DO SO)

D

SET-Y

UG-4Yr.EE-June, 2025

SUBJECT : BCA

Sr. No. *10760*

Time : 1¼ Hours   Max. Marks : **100**   Total Questions : **100**

Roll No. (in figures)_____ (in words) _____

Name _____ Date of Birth_____

Father's Name _____ Mother's Name_____

Date of Examination _____

_____   _____
(Signature of the Candidate)   (Signature of the Invigilator)

CANDIDATES MUST READ THE FOLLOWING INFORMATION/INSTRUCTIONS BEFORE STARTING THE QUESTION PAPER.

1. *All questions are compulsory.*

2. The candidates **must return** the question booklet as well as OMR Answer-Sheet to the Invigilator concerned before leaving the Examination Hall, failing which a case of use of unfair-means / mis-behaviour will be registered against him / her, in addition to lodging of an FIR with the police. Further the answer-sheet of such a candidate will not be evaluated.

3. Keeping in view the transparency of the examination system, carbonless OMR Sheet is provided to the candidate so that a copy of OMR Sheet may be kept by the candidate.

4. Question Booklet along with answer key of all the A, B, C & D code shall be got uploaded on the University Website immediately after the conduct of Entrance Examination. Candidates may raise valid objection/complaint if any, with regard to discrepancy in the question booklet/answer key within 24 hours of uploading the same on the University Website. The complaint be sent by the students to the Controller of Examinations by hand or through email. Thereafter, no complaint in any case, will be considered.

5. The candidate **must not** do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the question booklet itself. Answers **must not** be ticked in the question booklet.

6. *There will be no negative marking. Each correct answer will be awarded one full mark. Cutting, erasing, overwriting and more than one answer in OMR Answer-Sheet will be treated as incorrect answer.*

7. Use only **Black** or **Blue Ball Point Pen** of good quality in the OMR Answer-Sheet.

8. *Before answering the questions, the candidates should ensure that they have been supplied correct and complete booklet. Complaints, if any, regarding misprinting etc. will not be entertained* **30** *minutes after starting of the examination.*

UG-4Yr.-EE-June, 2025/(BCA)(SET-Y)/(D)

D

1. Find the missing number in the series :

   2, 5, 10, 17, ?, 37

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2. In a certain code language, 'PALE' is coded as '2134' and 'EARTH' is coded as '41590'. How is 'PEARL' coded in that language ?

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3. Find the odd one out :

   (1) Lion   (2) Tiger

   (3) Wolf   (4) Elephant

4. If today is Monday, what day will it be 61 days from now ?

   (1) Saturday   (2) Sunday

   (3) Monday   (4) Tuesday

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   (1) Nephew   (2) Aunt

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6. Arrange the following words in a meaningful sequence :

I.   Study

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V.   Result

(1) I, III, V, IV, II

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(3) I, II, III, IV, V

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7. In a row of students, A is 12th from the left and B is 16th from the right. If they interchange their positions, A becomes 20th from the left. What is the total number of students in the row ?

(1) 34

(2) 37

(3) 36

(4) 35

8. Select the related word from the given alternatives :

Book: Author :: Food: ?

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9. Find the missing number in the series :

3, 7, 15, 31, ?, 127

(1) 60

(2) 61

(3) 63

(4) 65

10. Pointing to a man, a woman said, "His mother is the only daughter of my mother." How is the woman related to the man ?

(1) Mother

(2) Sister

(3) Aunt

(4) Grandmother

11. Choose the most appropriate one-word substitute for the given phrase.

A person who loves books.

(1) Philanthropist

(2) Bibliophile

(3) Cartographer

(4) Bookphobic

12. Choose the most appropriate one-word substitute for the given phrase.

One who knows many languages.

(1) Monolingual

(2) Bilingual

(3) Polyglot

(4) Linguist

13. Change the voice (Active-Passive): "She writes a letter."

(1) A letter is written by her.

(2) A letter was written by her.

(3) A letter has been written by her.

(4) A letter is being written by her.

14. . Change the voice (Active-Passive): "The ball was hit by the boy."

(1) The ball hit the boy.

(2) The boy hit the ball.

(3) The boy was hitting the ball.

(4) The ball has hit the boy.

15. Change the voice (Active-Passive): "They are building a new house."

(1) A new house is built by them.

(2) A new house was built by them.

(3) A new house is being built by them.

(4) A new house has been built by them.

16. Change the voice (Active-Passive): "The decision will be made by the committee."

(1) The committee will make the decision.

(2) The committee made the decision.

(3) The decision was made by the committee.

(4) The decision is made by the committee.

17. Change the speech (Direct-Indirect): "He said, 'I am going to school.'"

(1) He said that I was going to school.

(2) He said that he is going to school.

(3) He said that he was going to school.

(4) He said that he had gone to school.

18. Change the speech (Direct-Indirect): "She asked me if I could help her."

(1) She said to me, "Can you help me?"

(2) She said to me, "You can help me."

(3) She asked me, "Could you help her?"

(4) She asked me, "Can I help you?"

19. Change the speech (Direct-Indirect), choose the most appropriate: "He said to me. 'Don't go there:"

(1) He told me not to go there.

(2) He asked me not to go there.

(3) He ordered me not to go there.

(4) He forbade me to go there.

20. Change the speech (Direct-Indirect): "She exclaimed with joy that she had won the prize."

(1) She said, "I have won the prize!"

(2) She said, "I won the prize!"

(3) She said, "I had won the prize!"

(4) She said, "Hurrah! I have won the prize!"

21. Which part of the computer performs calculations and logical operations ?

(1) Monitor + Keyboard (2) RAM + ROM

(3) CPU (4) Calculator app

22. In normal setup of Windows, the area at the bottom of the screen that shows open applications is called :

(1) Task Manager (2) Desktop

(3) Taskbar (4) Control Panel

23. Which one of the following is not an operating system ?

(1) Windows

(2) Android

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24. Which of the following allows to adjust the date and time of your computer ?

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Read the following passage carefully and answer the questions no. (26-27) :

The history of coffee is as rich and complex as its flavour. Originating in the ancient coffee forests of Ethiopia, the legend says that goat herders first noticed the stimulating effects of the coffee plant when their goats became energetic after eating its berries. From Ethiopia, coffee travelled to the Arabian Peninsula, where it was first cultivated in Yemen. By the 15th century, coffee was being grown in the Yemeni district of Arabia and by the 16th century, it was known in Persia, Egypt, Syria, and Turkey.' Coffee was not just a drink but played an important role in social life. Coffee houses, known as *qahveh khaneh*, became centres for the exchange of information and for socializing.

Coffee reached Europe in the 17th century, where it initially faced suspicion, sometimes even being referred to as "the bitter invention of Satan." However, Pope Clement VIII after tasting it, reportedly approved it, and coffee soon became widely accepted. It became a popular beverage, replacing morning beers and wines, and contributed to increased sobriety and productivity. The first coffee houses in Europe opened in Venice in 1645. From Europe, coffee cultivation spread to the Dutch East Indies (Indonesia) and then to the Americas. Today, coffee is one of the world's most popular beverages, consumed globally in various forms.

26. Where is coffee believed to have originated ?

(1) Arabian Peninsula

(2) Turkey

(3) Yemen

(4) Ethiopia

27. What did goat herders reportedly observe about their goats after eating coffee berries ?

(1) They became sleepy.

(2) They became aggressive.

(3) They refused to eat other plants.

(4) They became energetic.

28. Arrange the following sentences to form a coherent paragraph.

(A) She had no idea where to go or what to do.

(B) After losing her way in the dense forest, a young girl felt lost.

(C) Suddenly, she spotted a small, flickering light in the distance.

(D) Hope surged through her as she cautiously moved towards it.

(1) ABCD

(2) BACD

(3) BCAD

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29. Arrange the following sentences to form a coherent paragraph.

(A) These tiny creatures play a crucial role in our ecosystem.

(B) Bees are fascinating insects known for producing honey.

(C) They are also vital for pollinating many plants and crops.

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(A) The internet has revolutionized communication.

(B) It allows people to connect across vast distances instantly.

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31. Rahul is 5 years older than Rohan. If the sum of their ages is 35 years. What is Rahul's age ?

(1) 15 years   (2) 20 years

(3) 25 years   (4) 30 years

32. Express 145% as a fraction.

(1) 29/20   (2) 14/15

(3) 40/45   (4) 45/40

UG-4Yr.-EE-June, 2025/(BCA)(SET-Y)/(D)

33. If 40 percent of a number is 57.2, then what is the number ?

(1) 114.4   (2) 134   (3) 144.4   (4) 143

34. A student obtains 135 with a percentage of 75. What is the maximum marks ?

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(2) 91

(3) 97

(4) All are prime

43. For two distinct natural numbers, which of the following is *true* ?

(1) Their HCF and LCM can be the same.

(2) Their HCF is always less than their LCM.

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(4) None of the above may hold.

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(1) -0.445 (2) -0.505 (3) -0.105 (4) -0.65

46. What is 1.125 expressed as a common fraction ?

(1) 1/4   (2) 1/8   (3) 3/16   (4) 9/8

47. Calculate :

0.25×0.04

(1) 0.010   (2) 0.100   (3) 1.010   (4) 0.001

48. Which of the following is the smallest decimal fraction ?

(1) 0.111   (2) 0.101   (3) 0.100   (4) 0.011

49. Convert 5/8 to a decimal.

(1) 0.625   (2) 0.525   (3) 0.825   (4) 0.725

50. Calculate :

$15 \times 8 \div 4 + 6 - 3$

(1) 33   (2) 36   (3) 29   (4) 27

51. Which planet is known as the "Red Planet" ?

(1) Venus   (2) Mars

(3) Jupiter   (4) Saturn

D

52. Which gas do plants primarily absorb from the atmosphere for photosynthesis ?

    (1) Oxygen   (2) Nitrogen

    (3) Carbon Dioxide   (4) Hydrogen

53. Joule is the SI unit of which of the following ?

    (1) Quality of jewellery   (2) Resistance

    (3) Power   (4) Work done

54. Which of the following is a renewable source of energy ?

    (1) Coal   (2) Natural Gas

    (3) Solar Energy   (4) Petroleum

55. Graphite and diamond are ....

    (1) Isomers   (2) Isobars

    (3) Isotopes   (4) Allotropes

56. Deficiency of Vitamin D causes which disease ?

    (1) Scurvy   (2) Rickets

    (3) Night Blindness   (4) Beriberi

57. Which force is believed to keep planets in orbit around the Sun ?

    (1) Electromagnetic force   (2) Nuclear force

    (3) Gravitational force   (4) Frictional force

58. Which of the following is an example of a noble gas ?

(1) Oxygen

(2) Nitrogen

(3) Carbon

(4) Neon

59. Which gas is emitted as a result of a plant's respiration ?

(1) Oxygen

(2) Greenhouse gases

(3) Carbon dioxide

(4) Nitrogen

60. The phenomenon of light bending as it passes from one medium to another is called:

(1) Reflection

(2) Refraction

(3) Diffraction

(4) Dispersion

61. Calculate :

1/2 + 1/3 – 1/6

(1) 1/2

(2) 2/3

(3) 5/6

(4) 1/3

62. Simplify :

3 × (4 + 5) – 6/2

(1) 24

(2) 30

(3) 27

(4) 15

63. Find the value of square root of (0.0009).

(1) 0.030

(2) 0.081

(3) 0.300

(4) 0.0003

P. T. O.

64. If $(X^2 - 1) = 195$, then X is :

   (1) 196   (2) 44   (3) 56   (4) 14

65. The average of the first fifty whole numbers is :

   (1) 24   (2) 25   (3) 24.5   (4) 1225

66. The average of 10, 8, X and 20 is 7. What is the value of X ?

   (1) 10   (2) –10   (3) 7   (4) 23

67. The average of 7 numbers is 30. If the average of the first three numbers is 25 and the average of the next three numbers is 35. What is the last number ?

   (1) 30   (2) 20   (3) 40   (4) 25

68. The sum of X and Y is 25 and their difference is 13. Find X and Y.

   (1) 19, 6   (2) 20, 5   (3) 18, 7   (4) 21, 4

69. Four-fifths of a number is –20. What is the number ?

   (1) –16   (2) –25   (3) 25   (4) 16

70. The present age of a father is three times the present age of his son. After 10 years the father's age will be twice the son's age. What is the present age of the father?

   (1) 20 years   (2) 50 years   (3) 40 years   (4) 30 years

71. The .... identifies a resource on the internet, such as a web page.

   (1) HTTP   (2) UUTP

   (3) URL   (4) HTML

72. Which of the following is a popular search engine ?

    (1) Chrome

    (2) Firefox

    (3) MS Word

    (4) Google

73. In a typical web address "www.example.com", what does the "com" indicate ?

    (1) Commercial organization

    (2) Company website

    (3) Community website

    (4) Communication protocol

74. What is a "bookmark" in a web browser used for ?

    (1) To save a page for offline reading

    (2) To mark a page for quick access

    (3) To print a page

    (4) To share a page on social media

75. What is phishing ?

    (1) A type of online game

    (2) An attempt to acquire sensitive information by disguising as a trustworthy entity

    (3) A method to speed up internet connection

    (4) A technique to create websites

76. Which of the following is a network security device (hardware or software) ?

    (1) Router

    (2) Switch

    (3) Firewall

    (4) Modem

77. The full form of Wi-Fi is :

(1) Wireless Fidelity

(2) Wired Fibre

(3) Wireless Filter

(4) Web-based Filter

78. Which of the following fields specify the email recipient(s) ?

(1) To

(2) Cc

(3) Bcc

(4) All of the above

79. In which lab did Timothy Berners Lee, the person behind HTTP work ?

(1) DRDO

(2) ISRO

(3) AT & T Lab

(4) CERN

80. What is "Spam" in the context of email ?

(1) Important official emails

(2) Unsolicited emails, often advertisements or scams

(3) Emails with large attachments

(4) Emails sent to yourself

81. Who is known as the 'Father of the Indian Constitution' ?

(1) Mahatma Gandhi

(2) Jawaharlal Nehru

(3) Sardar Vallabhbhai Patel

(4) Bhim Rao Ambedkar

82. Which Indian state(s) is/are famous for the 'Kaziranga National Park', home to the one-horned rhinoceros ?

(1) Uttarakhand   (2) Assam

(3) UP- Haryana   (4) Rajasthan

83. The 'Quit India Movement' was launched in which year ?

(1) 1930   (2) 1945

(3) 1947   (4) 1942

84. Who is said to have invented the light bulb ?

(1) Alexander Graham Bell   (2) Marie Curie

(3) Thomas Alva Edison   (4) Nikola Tesla

85. The Gobi Desert is located in which continent ?

(1) Africa   (2) North America

(3) Asia   (4) South America

86. The 'Davis Cup' is associated with which of these following sports ?

(1) Football   (2) Cricket

(3) Hockey   (4) Tennis

87. The headquarters of the Reserve Bank of India is located in :

(1) New Delhi   (2) Kolkata

(3) Mumbai   (4) Chandigarh

88. The National Anthem of India, "Jana Gana Mana", was originally composed in which language ?

    (1) Hindi

    (2) Bengali

    (3) Sanskrit

    (4) Tamil

89. Who wrote the famous book 'Discovery of India' ?

    (1) Mahatma Gandhi

    (2) Rabindranath Tagore

    (3) Jawaharlal Nehru

    (4) Sardar Patel

90. Which country is said to be the largest democracy in the world ?

    (1) USA   (2) China   (3) Russia   (4) India

Directions (Q. 91-93): Choose the most appropriate sentence to complete the paragraph :

91. The rise of artificial intelligence has sparked a lot of debate. Some fear that AI could eventually replace human jobs, leading to widespread unemployment. Others argue that AI will create new types of jobs and enhance human productivity ....

    (1) AI is already used in self-driving cars.

    (2) This ongoing discussion highlights the complex implications of technological advancement.

    (3) Robots are becoming more common in factories.

    (4) Many people still prefer human interaction.

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92. Exercise is crucial for maintaining good physical and mental health. Regular physical activity can reduce the risk of chronic diseases, improve mood, and boost energy levels .... It's important to find activities that you enjoy to make it a sustainable habit.

(1) Many people prefer indoor gyms.

(2) It also helps in weight management and strengthens bones.

(3) Eating healthy is also important for health.

(4) Some sports require special equipment.

93. Climate change is a pressing global issue. Rising global temperatures are leading to melting glaciers, rising sea levels, and more frequent extreme weather events. .... Immediate and collective action is needed to mitigate its effects.

(1) Weather forecasting has improved significantly.

(2) This phenomenon is largely attributed to human activities like burning fossil fuels.

(3) Renewable energy sources are becoming cheaper.

(4) Many countries are developing new technologies.

Directions (Q. 94-95): Choose the word closest in meaning to the given word (Synonym).

94. Abundant :

(1) Scarce   (2) Limited

(3) Rare   (4) Plentiful

UG-4Yr.-EE-June, 2025/(BCA)(SET-Y)/(D)   P. T. O.

95. Vigorous :

(1) Weak
(2) Energetic

(3) Slow
(4) Lethargic

Directions (Q. 96-97): Choose the word opposite in meaning to the given word (Antonym).

96. Ancient :

(1) Old
(2) Historic

(3) Past
(4) Modern

97. Optimist :

(1) Idealist
(2) Realist

(3) Pessimist
(4) Dreamer

98. Choose the correctly spelled word.

(1) Recieve
(2) Receive

(3) Recieve
(4) Recive

99. Choose the correctly spelled word.

(1) Occassion
(2) Occasion

(3) Ocassion
(4) Ocasione

100. Choose the correctly spelled word.

(1) Vaccum
(2) Vacuum

(3) Vaccuum
(4) Vaccumm

UG-4Yr.-EE-June, 2025/(BCA)(SET-Y)/(D)

Answer keys of Bachelor of Computer Application (BCA) 4-year entrance test dated 21.06.2025

Q. No.	A	B	C	D
1	4	3	2	2
2	2	3	1	1
3	4	4	1	4
4	3	3	4	1
5	3	4	3	3
6	4	4	2	2
7	3	4	1	4
8	2	2	1	2
9	3	1	2	3
10	4	1	4	1
11	2	2	2	2
12	1	1	3	3
13	4	4	4	1
14	1	2	3	2
15	3	2	4	3
16	2	3	2	1
17	4	2	3	3
18	2	4	4	1
19	3	1	3	4
20	1	1	2	4
21	2	3	4	3
22	3	3	2	3
23	4	2	4	4
24	3	1	3	3
25	4	1	3	4
26	2	4	4	4
27	3	1	3	4
28	4	4	2	2
29	3	1	3	1
30	2	1	4	1
31	3	2	2	2
32	3	1	3	1
33	2	4	1	4
34	1	1	2	2
35	1	3	3	2
36	4	2	1	3
37	1	4	3	2
38	4	2	1	4
39	1	3	4	1
40	1	1	4	1
41	2	2	3	3
42	1	3	4	3
43	1	1	1	2
44	4	2	2	1
45	3	3	2	1
46	2	1	3	4
47	1	3	1	1
48	1	1	4	4
49	2	4	4	1
50	4	4	2	1

Q. No.	A	B	C	D
51	2	3	3	2
52	1	4	3	3
53	4	1	2	4
54	2	2	1	3
55	2	2	1	4
56	3	3	4	2
57	2	1	1	3
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67	1	3	4	1
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93	1	4	4	2
94	2	3	2	4
95	3	3	2	2
96	1	4	3	4
97	3	3	2	3
98	1	2	4	2
99	4	3	1	2
100	4	4	1	2