

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

A

UG-EE-June, 2024

SET-Z

SUBJECT : BCA (4 Year)

10377

Sr. No.

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 _____

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(Signature of the Candidate)

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UG-EE-June, 2024/(BCA-4 Yr.)(SET-Z)/(A)

SEAL

1. What is the symbol of Gold ?
(1) Ag (2) Au
(3) Ca (4) G
2. Who invented the telephone ?
(1) Marie Curie (2) Mark Marturello
(3) Alexander Graham Bell (4) Nikola Tesla
3. What is the national animal of India ?
(1) Dolphi (2) Parrot
(3) Lion (4) Bengal Tiger
4. What is the minimum age for becoming a Lok Sabha candidate ?
(1) 27 (2) 25
(3) 26 (4) 28
5. Who was the first election commissioner of India ?
(1) Sukumar Sen (2) Rajiv Kumar
(3) Om Birla (4) Dhananjaya
6. What is a "free throw" commonly associated with ?
(1) Football (2) Badminton
(3) Basketball (4) Cricket
7. Which day is celebrated as World Press Freedom Day ?
(1) 10 April (2) 15 February
(3) 18 December (4) 3 May

8. Who is the author of the famous book "We the People" ?
- (1) Kushwant Singh (2) Charles Dickens
(3) Emily Bronte (4) Nani Palkhivala
9. Who appoints the Advocate General of each state of India ?
- (1) President (2) Governor of a state
(3) Prime Minister (4) Solicitor General
10. Who has been appointed as the new Chief of Research and Analysis Wing(RAW) ?
- (1) Ravi Sinha (2) Tapan Kumar Deka
(3) Ravindra Kaushik (4) Ajay Kumar Singh
11. If PINK is coded as 1691411, then RED will be coded as :
- (1) 1963 (2) 1853
(3) 1854 (4) 1954
12. Which of the following is the odd one from the given alternatives ?
- (1) Diving (2) Driving
(3) Swimming (4) Sailing
13. Which of the following pairs of words are differently related ?
- (1) Kind : cruel (2) Stale : fresh
(3) slow : sluggish (4) Truth : lie
14. Drama : Stage :: Tennis :
- (1) Court (2) Net
(3) Tournament (4) Racket

UG-EE-June, 2024/(BCA-4 Yr.)(SET-Z)/(A)

15. The day before yesterday was Saturday. What will be the day after tomorrow ?
- (1) Wednesday (2) Monday
(3) Friday (4) Thursday
16. Look at the series: 36, 34, 30, 28, 24, .. What number should come next ?
- (1) 26 (2) 20
(3) 23 (4) 22
17. Which word is odd one out ?
- (1) fondness (2) Liking
(3) hate (4) Attachment
18. Pointing to a photograph of a boy Suresh said, "He is the son of the only son of my mother". How is Suresh related to that boy ?
- (1) Uncle (2) Brother
(3) Cousin (4) Father
19. The sum of ages of 4 friends A,B,C and D is 70 Years. What would be the total of their ages after 5 years later ?
- (1) 90 (2) 85
(3) 75 (4) 65
20. A man walks 1km to East and then he turns to South and walks 5 km. Again he turns to East and walks 2km. After this he turns to North and walks 9 km. Now, in which direction he is from starting point ?
- (1) North (2) South
(3) North-East (4) West

21. Which of the following compound is mainly used in hand sanitizer ?
- (1) Alcohol (2) Acetic acid
(3) Aldehyde (4) Ketone
22. Which of the following glands is present in the human mouth ?
- (1) Adrenal (2) Pituitary
(3) Gonads (4) Salivary
23. What is the basic unit of our neural system ?
- (1) Neutron (2) Neuron
(3) Nephron (4) Nucleon
24. Name the part of the body on which coronavirus affects the most ?
- (1) Heart (2) Liver
(3) Kidney (4) Lungs
25. About 70% part of the sun is made up of :
- (1) Hydrogen (2) Oxygen
(3) Carbon (4) Helium
26. A Universal donor person have a blood group :
- (1) A (2) AB
(3) O (4) B
27. Name an instrument which is used to measure the Density of milk ?
- (1) Lactometer (2) Hydrometer
(3) Barometer (4) Hygrometer

34. The LCM of 5, 8, 12, 20 will not be a multiple of
- (1) 3 (2) 9
(3) 8 (4) 5
35. A man sold 250 chairs and had a gain equal to the selling price of 50 chairs. His profit percentage is
- (1) 25% (2) 10%
(3) 5% (4) 50%
36. In an election between two candidates, one got 55% of total valid votes. 20% of the votes were invalid. If the total number of votes were 7500, the number of valid votes that the other candidates got were
- (1) 2700 (2) 2900
(3) 3000 (4) 3100
37. A man's basic pay for a 40h week is Rs. 20. Overtime is paid for at 25% above the basic rate. In a certain week, he worked overtime and his total wage as Rs. 25. He therefore, worked for a total of
- (1) 45h (2) 47h
(3) 48h (4) 50h
38. If the cost price of 36 books is equal to the selling price of 30 books, then the gain percentage is
- (1) 20% (2) 25%
(3) 16% (4) 30%

39. A dealer makes a profit of 20% by selling an article. What would be the percentage change in the profit percent if he had paid 20% less for it and the current paid 10% more for it ?
- (1) 225% (2) 125%
(3) 200% (4) 160%
40. The average weight of a class of 29 students is 40kg. If the weight of the teacher be included, the average rises by 500g. What is the weight of the teacher ?
- (1) 40.5 kg (2) 50.5 kg
(3) 45 kg (4) 55 kg
41. The averages of square of natural numbers from 1 to 35 is
- (1) 436 (2) 426
(3) 416 (4) 446
42. If A takes 4h to cover a distance and he is 2 times faster than B, then what time will B take to cover the same distance ?
- (1) 6 h (2) 8 h
(3) 9 h (4) None of them
43. A motor car does a journey in 9 h, the first half at 12 km/h and second half at 15km/h. Find the distance.
- (1) 120 km (2) 100 km
(3) 124 km (4) 96 km

44. A man is walking at a speed of 9 km/h. After every km he takes rest for 9 min. How much time will he take to cover a distance of 27 km ?
- (1) 6 h (2) 6 h 45 min
(3) 6 h 54 min (4) 6 h 35 min
45. At what rate of interest per annum will a sum becomes 5 times in 20 years at SI ?
- (1) 20% (2) 16%
(3) 25% (4) 10%
46. The difference between the compound interest and simple interest on a certain sum at 5% for 2 yr is Rs. 1.50. The sum is.....
- (1) Rs. 600 (2) Rs. 500
(3) Rs. 400 (4) Rs. 300
47. What principal will amount to Rs. 1352 in 2 years at 4% compound interest ?
- (1) Rs. 1520 (2) Rs. 1260
(3) Rs. 1250 (4) Rs. 1220
48. A and B can do a piece of work in 72 days; B and C can do it in 120 days; A and C can do it in 90 days. In what time can A alone do it ?
- (1) 150 days (2) 120 days
(3) 100 days (4) 80 days
49. A can do a certain job in 12 days. B is 60% more efficient than A. The number of days, it takes to do the same piece of work, is
- (1) 6 (2) $25/4$
(3) $15/2$ (4) 8

50. A pipe can fill a tank in 6 h. Due to leak in the bottom it is filled in 8 h. If the tank is full, how much time will the leak take to empty it ?
- (1) 24 h (2) 20 h
(3) 18 h (4) 12 h
51. Find the third proportional to the numbers 5 and 10.
- (1) 20 (2) 2.5
(3) 25 (4) 30
52. Ratio of boys to the girls in a class is 5 : 4. Which of the following cannot be the number of students in the class ?
- (1) 45 (2) 72
(3) 108 (4) 98
53. In an educational institution there are 15 more boys than girls. If the number of boys is increased by 20% and number of girls is increased by 15% there would be 29 more boys than girls. How many students are there in the institution ?
- (1) 250 (2) 255
(3) 230 (4) 220
54. Two oranges, three bananas and four apples cost Rs. 15. Three oranges, two bananas and one apple cost Rs.10. I bought 3 oranges, 3 bananas and 3 apples. How much did I pay ?
- (1) Rs. 15 (2) Rs. 8
(3) Rs. 10 (4) Cannot be determined

55. How many prime factors are there in the expression $(12)^{43} * (34)^{48} * (2)^{57}$?

(1) 282

(2) 237

(3) 142

(4) 61

Directions (Q. Nos. 56-60) : A survey film watching habits of people living in 5 cities I, II, III, IV and V is summarised below. The column (1) gives percentage of film-watchers in each city who see only film a week. The column (2) gives the total number of film-watchers who see more than one film per week. Read the table and answer the questions.

City	(1)	(2)
I	50	3200
II	30	3500
III	65	7000
IV	25	5400
V	80	2900

56. How many film-watchers in City II see only one film a week ?

(1) 900

(2) 1500

(3) 1600

(4) 3200

57. Which city has the highest number of film-watchers who see only film a week ?

(1) I

(2) II

(3) III

(4) IV

58. The city with the lowest number of film-watcher is

(1) I

(2) II

(3) IV

(4) V

59. The city with the highest number of film-watcher is
- (1) I (2) V
(3) IV (4) III
60. The total number of all film watchers in the five cities who see only one film a week is
- (1) 31100 (2) 29500
(3) 28600 (4) 28300
61. High-capacity computers used primarily for research purposes are :
- (1) Microcomputers (2) Minicomputers
(3) Mainframes (4) Supercomputers
62. Which piece of hardware do you need to connect to the internet ?
- (1) An ISP Account (2) A Modem
(3) A Browser (4) Internet Explorer
63. Which one of the following is *not* a network topology ?
- (1) Star (2) Bus
(3) Linear (4) Ring
64. Which of the following device could *not* be a part of a wired LAN based on star topology ?
- (1) Switch (2) Repeater
(3) Hub (4) Router

65. Which key strokes switch a user between simultaneously running applications in windows ?
- (1) FN + TAB (2) ALT + TAB
(3) CTRL + TAB (4) SHIFT + TAB
66. Which of the following operating systems use preemptive scheduling ?
- (1) Mac OS 8 (2) Window 3.x
(3) Windows 95 (4) DOS 6.0
67. What does URL stand for ?
- (1) Uniform Resource Locator
(2) Universal Resource Locator
(3) Uniform Retrieval Locator
(4) Universal Retrieval Locator
68. Which of the following is non-volatile memory ?
- (1) RAM (2) Cache
(3) CPU Register (4) ROM
69. Which port is typically used to connect a monitor to a computer ?
- (1) USB (2) Ethernet
(3) HDMI (4) Audio Jack
70. Which Linux command is used to change file permission ?
- (1) chmod (2) chperm
(3) perm (4) chown

71. In Windows, what is the shortcut key to open Task Manager ?
- (1) Ctrl + Alt + Delete (2) Ctrl + Shift + Esc
(3) Alt + F4 (4) Ctrl + Esc
72. Which part of an email address comes after the '@' symbol ?
- (1) Username (2) Domain name
(3) Subject (4) Service Provider Name
73. Which of the following is *not* a web browser ?
- (1) Google Chrome (2) Mozilla Firefox
(3) Microsoft Edge (4) Ubuntu
74. What is the purpose of "Bcc" (Blind Carbon Copy) field in an email ?
- (1) To send a copy of the email to additional recipients without their address being visible to other recipients
(2) To attach files to the email
(3) To set the priority of the email
(4) To format the email text
75. What does the acronym 'IM' stand for in internet communication ?
- (1) Instant Messaging (2) Internet Messaging
(3) International Messaging (4) Internal Messaging
76. Choose the correct antonym (opposite) for the word 'CORDIAL' given from the options below :
- (1) Unfriendly (2) Sweet
(3) Affable (4) Frigid

77. Choose the correct synonym for the word 'STRIFE' given from the options below :

(1) Concord

(2) Peace

(3) Truce

(4) Battle

78. Which of the following will be the correct sentence in passive voice ?

Active Voice : They sun-dried the fenugreek leaves to make spices.

(1) The spices were made by sun-dried fenugreek leaves.

(2) The fenugreek leaves were sun-dried to make spices.

(3) They made the spices by sun-drying the fenugreek leaves.

(4) The sun-dried fenugreek leaves were used for making species.

79. Which of the following will be the correct sentence in passive voice ?

Active Voice : I saw the thief leaving the house.

(1) The thief was seen to be leaving the house.

(2) Leaving the house, I saw the thief.

(3) The thief had been seen leaving the house

(4) The thief was seen leaving the house by me.

80. Spot the error :

Two hours after its (a) / take-off, the flight reached (b) / Mumbai Airport, when (c) / it stopped for a short Interval (d)

(1) a

(2) b

(3) c

(4) d

UG-EE-June, 2024/(BCA-4 Yr.)(SET-Z)/(A)

81. Spot the error :

While four of them surrendered, three others (a) / escaped under the cover of heavy firing at Handwara (b) / in the Kupwara district, about 70km from state capital Srinagar (c)

- (1) a (2) No Error
(3) b (4) c

82. Three of four words given in this question are spelt wrong. Select the word that is spelt correctly :

- (1) irelevant (2) irrelevent
(3) irrelevant (4) irrellevant

83. Fill in the blank with an appropriate preposition or conjunction. She is not very talented, she is highly successful.

- (1) yet (2) despite
(3) however (4) in spite

84. Fill in the blank with an appropriate preposition or conjunction he was an illiterate, he managed to achieve success through hardwork.

- (1) In spite of (2) Despite
(3) As if (4) Although

85. Fill in the blank with an appropriate tense.

Only one of the boys not done the home-work given yesterday.

- (1) have (2) has
(3) can (4) could

86. Select the correct transformation of the following direct speech to indirect.

He said, "I will go to college tomorrow".

- (1) He said that he would go to college the next day.
- (2) He says that he would go to college the next day.
- (3) He says that he would go to college tomorrow.
- (4) He said that he would go to college tomorrow.

87. Select the correct transformation of the following direct speech to indirect.

He said to me, "Why are you troubling me ?"

- (1) He asked me why am I troubling him.
- (2) He asked me why have I been troubling him.
- (3) He asked me why I was troubling him.
- (4) He asked me why was I troubling him.

88. Choose the correct spelling :

- | | |
|---------------|---------------|
| (1) Perceived | (2) Perceivd |
| (3) Perseived | (4) Percieved |

89. Out of given alternatives, choose the word which can be substituted for the given word/sentence.

The action or an instance of making a judgment about something.

- | | |
|----------------|------------------|
| (1) Assessment | (2) Conservation |
| (3) Evolving | (4) Chaos |

90. Out of given alternatives, choose the word which can be substituted for the given word/sentence.

The act of using someone or something unfairly for your own advantage.

- (1) Evolving (2) Severity
(3) Exploitation (4) Bolster

91. Out of given alternatives, choose the word which can be substituted for the given word/sentence.

Satisfactory or acceptable in quality or quantity.

- (1) Restoration (2) Adequate
(3) Recognizing (4) Spanning

92. The question below contains four scattered segments of a sentence. Indicate the sequence which correctly assembles the segments and completes the sentence :

(a) his contribution to the (b) completely ignored as soon

(c) as he retired from work (d) field of astronomy were

(1) a c b d (2) b a c d

(3) a b d c (4) a d b c

93. Rearrange the following jumbled sentences to make a meaningful one :

(P) are inhibiting progress

(Q) they look for creative

(R) rather than the conventional solution of outsourcing

(S) solutions to the problems that

(1) SRQP (2) PQRS

(3) QSPR (4) QRPS

94. In the given question, a short passage is given with one of the lines in the passage missing and represented by a blank. Select the best out of the five answer choices given, to make the passage complete and coherent.

As people return to life and work post the lockdown, some predictions point to a mad rush to do even more than before. Travel more, buy more, meet more people, eat out more -do more of more. Much more is anticipated from the State. Some see it as an opportunity to overtake China.

- (1) The government too is expected to do more to restore economic growth and livelihoods.
- (2) One pathway is to shift from a mindset of scarcity to a mindset of abundance.
- (3) Last but not least, let's unlock our spiritual treasure trove.
- (4) Neurosciences and behavioural sciences increasingly corroborate this ancient wisdom

95. In the given question, a short passage is given with one of the lines in the passage missing and represented by a blank. Select the best out of the five answer choices given, to make the passage complete and coherent.

The fragmentation of the anti-XYZ vote now gives a clear edge to the incumbent party. But beyond the arithmetic, the collapse of the possible alliance in Delhi sends out two messages. It reinforces XYZ's narrative that opposition parties are weak and squabbling, dominated by narrow interests And while seven seats may not be a lot, the battle in Delhi has always been symbolic and watched widely across the country. While calling it a bellwether state may be somewhat of an exaggeration, the party which wins Delhi has usually done well nationally.

- (1) with so much commons
- (2) without commons
- (3) with little in common
- (4) with ecstasy

UG-EE-June, 2024/(BCA-4 Yr.)(SET-Z)/(A)

Directions (Q. Nos. 96 to 100) : Read the following comprehension and answer the questions based on it.

A balanced diet means getting the right types and amounts of foods and drinks to supply nutrition and energy for maintaining body cells, tissues, and organs, and for supporting normal growth and development. Eating a balanced diet means choosing a wide variety of foods and drinks from all the food groups. It also means eating certain things in moderation, namely saturated fat, trans fat, cholesterol, refined sugar, salt and alcohol. The goal is to take in nutrients you need for health at the recommended levels. Your balanced diet must be planned at your own calorie level, and portion size is key. You want to get the most nutrients for the calories by choosing food with a high-nutrient density. Nutrient-dense foods provide substantial amounts of vitamins and minerals and relatively few calories, such as fresh fruit and vegetables, lean meat and fish, and whole grains and beans. Low-nutrient dense foods have few vitamins but lots of calories, such as candy bars, soda, donuts and onion rings. Nutrition guidelines recommend eating a wide variety of foods. But, there's a school of thought that eating variety of foods leads to overeating. There is the tendency to stay hungry longer and eat more food when flavors are diverse and keep changing because we fill up on fewer calories when flavor variety is controlled. We have seen this principle in action when we come home with a load of groceries and want to sample the wide variety of tasty foods.

96. Which two categories of food mentioned in the passage are opposite to each other in nutritional values ?

- (1) The two food categories are 'Nutrient-dense foods' and 'low-nutrient dense foods'.
- (2) The two food categories are 'A balanced diet' and 'A unbalanced diet'.
- (3) The two food categories are 'A high calorie food' and 'A low calorie food'.
- (4) The two food categories are 'A high sugar food' and 'A sugar-free food'.

97. Which word in the passage means the same as adequate ?

- | | |
|-----------------|-----------------|
| (1) Over-eating | (2) Refined |
| (3) Recommended | (4) Substantial |

98. A balanced diet means :

- (1) a diet consisting of the right kind and quantity of food for carrying out growth, development and body functions.
- (2) a diet consisting of a particular range of food stuffs which provide energy for body to carry out its functions.
- (3) a diet consisting of a large amount of calories required to carry out the body functions.
- (4) a diet consisting of vitamins and minerals which are necessary for the body.

99. How does eating a variety of foods lead to over-eating ?

- (1) People cannot manage the portion size of food items which can result in over eating.
- (2) People tend to indulge in tasting more flavors which can result in over-eating.
- (3) People tend to eat more of calorie laden food which results in over-eating.
- (4) People tend to eat more food thinking that it would make their diet balanced and this results in over-eating.

100. What does the phrase a school of thought' mean ?

- (1) It means a school which is started by great thinkers and philosophers.
- (2) It means a school where it is taught how to think and meditate.
- (3) It means a school where thoughts are put into practice.
- (4) It means a particular idea or set of ideas held by a specific group.

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1. Spot the error :

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- (1) a (2) No Error
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2. Three of four words given in this question are spelt wrong. Select the word that is spelt correctly :

- (1) irelevant (2) irrelevent
(3) irrelevant (4) irrellevant

3. Fill in the blank with an appropriate preposition or conjunction. She is not very talented, she is highly successful.

- (1) yet (2) despite
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4. Fill in the blank with an appropriate preposition or conjunction he was an illiterate, he managed to achieve success through hardwork.

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Only one of the boys not done the home-work given yesterday.

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The action or an instance of making a judgment about something.

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10. Out of given alternatives, choose the word which can be substituted for the given word/sentence.

The act of using someone or something unfairly for your own advantage.

- (1) Evolving (2) Severity
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11. In Windows, what is the shortcut key to open Task Manager ?

- (1) Ctrl + Alt + Delete (2) Ctrl + Shift + Esc
(3) Alt + F4 (4) Ctrl + Esc

12. Which part of an email address comes after the '@' symbol ?

- (1) Username (2) Domain name
(3) Subject (4) Service Provider Name

13. Which of the following is *not* a web browser ?

- (1) Google Chrome (2) Mozilla Firefox
(3) Microsoft Edge (4) Ubuntu

14. What is the purpose of "Bcc" (Blind Carbon Copy) field in an email ?

- (1) To send a copy of the email to additional recipients without their address being visible to other recipients
(2) To attach files to the email
(3) To set the priority of the email
(4) To format the email text

15. What does the acronym 'IM' stand for in internet communication ?

- (1) Instant Messaging (2) Internet Messaging
(3) International Messaging (4) Internal Messaging

16. Choose the correct antonym (opposite) for the word 'CORDIAL' given from the options below :

- (1) Unfriendly (2) Sweet
(3) Affable (4) Frigid

17. Choose the correct synonym for the word 'STRIFE' given from the options below :

- (1) Concord (2) Peace
(3) Truce (4) Battle

18. Which of the following will be the correct sentence in passive voice ?

Active Voice : They sun-dried the fenugreek leaves to make spices.

- (1) The spices were made by sun-dried fenugreek leaves.
(2) The fenugreek leaves were sun-dried to make spices.
(3) They made the spices by sun-drying the fenugreek leaves.
(4) The sun-dried fenugreek leaves were used for making species.

19. Which of the following will be the correct sentence in passive voice ?

Active Voice : I saw the thief leaving the house.

- (1) The thief was seen to be leaving the house.
(2) Leaving the house, I saw the thief.
(3) The thief had been seen leaving the house
(4) The thief was seen leaving the house by me.

20. Spot the error :

Two hours after its (a) / take-off, the flight reached (b) / Mumbai Airport, when (c) / it stopped for a short Interval (d)

- (1) a (2) b
(3) c (4) d

21. Out of given alternatives, choose the word which can be substituted for the given word/sentence.

Satisfactory or acceptable in quality or quantity.

- (1) Restoration (2) Adequate
(3) Recognizing (4) Spanning

22. The question below contains four scattered segments of a sentence. Indicate the sequence which correctly assembles the segments and completes the sentence :

- (a) his contribution to the (b) completely ignored as soon
(c) as he retired from work (d) field of astronomy were
(1) a c b d (2) b a c d
(3) a b d c (4) a d b c

23. Rearrange the following jumbled sentences to make a meaningful one :

(P) are inhibiting progress

(Q) they look for creative

(R) rather than the conventional solution of outsourcing

(S) solutions to the problems that

- (1) SRQP (2) PQRS
(3) QSPR (4) QRPS

24. In the given question, a short passage is given with one of the lines in the passage missing and represented by a blank. Select the best out of the five answer choices given, to make the passage complete and coherent.

As people return to life and work post the lockdown, some predictions point to a mad rush to do even more than before. Travel more, buy more, meet more people, eat out more -do more of more. Much more is anticipated from the State. Some see it as an opportunity to overtake China.

- (1) The government too is expected to do more to restore economic growth and livelihoods.
- (2) One pathway is to shift from a mindset of scarcity to a mindset of abundance.
- (3) Last but not least, let's unlock our spiritual treasure trove.
- (4) Neurosciences and behavioural sciences increasingly corroborate this ancient wisdom

25. In the given question, a short passage is given with one of the lines in the passage missing and represented by a blank. Select the best out of the five answer choices given, to make the passage complete and coherent.

The fragmentation of the anti-XYZ vote now gives a clear edge to the incumbent party. But beyond the arithmetic, the collapse of the possible alliance in Delhi sends out two messages. It reinforces XYZ's narrative that opposition parties are weak and squabbling, dominated by narrow interests And while seven seats may not be a lot, the battle in Delhi has always been symbolic and watched widely across the country. While calling it a bellwether state may be somewhat of an exaggeration, the party which wins Delhi has usually done well nationally.

- | | |
|---------------------------|---------------------|
| (1) with so much commons | (2) without commons |
| (3) with little in common | (4) with ecstasy |

UG-EE-June, 2024/(BCA-4 Yr.)(SET-Z)/(B)

Directions (Q. Nos. 26 to 30) : Read the following comprehension and answer the questions based on it.

A balanced diet means getting the right types and amounts of foods and drinks to supply nutrition and energy for maintaining body cells, tissues, and organs, and for supporting normal growth and development. Eating a balanced diet means choosing a wide variety of foods and drinks from all the food groups. It also means eating certain things in moderation, namely saturated fat, trans fat, cholesterol, refined sugar, salt and alcohol. The goal is to take in nutrients you need for health at the recommended levels. Your balanced diet must be planned at your own calorie level, and portion size is key. You want to get the most nutrients for the calories by choosing food with a high-nutrient density. Nutrient-dense foods provide substantial amounts of vitamins and minerals and relatively few calories, such as fresh fruit and vegetables, lean meat and fish, and whole grains and beans. Low-nutrient dense foods have few vitamins but lots of calories, such as candy bars, soda, donuts and onion rings. Nutrition guidelines recommend eating a wide variety of foods. But, there's a school of thought that eating variety of foods leads to overeating. There is the tendency to stay hungry longer and eat more food when flavors are diverse and keep changing because we fill up on fewer calories when flavor variety is controlled. We have seen this principle in action when we come home with a load of groceries and want to sample the wide variety of tasty foods.

26. Which two categories of food mentioned in the passage are opposite to each other in nutritional values ?

- (1) The two food categories are 'Nutrient-dense foods' and 'low-nutrient dense foods'.
- (2) The two food categories are 'A balanced diet' and 'A unbalanced diet'.
- (3) The two food categories are 'A high calorie food' and 'A low calorie food'.
- (4) The two food categories are 'A high sugar food' and 'A sugar-free food'.

27. Which word in the passage means the same as adequate ?

- | | |
|-----------------|-----------------|
| (1) Over-eating | (2) Refined |
| (3) Recommended | (4) Substantial |

28. A balanced diet means :

- (1) a diet consisting of the right kind and quantity of food for carrying out growth, development and body functions.
- (2) a diet consisting of a particular range of food stuffs which provide energy for body to carry out its functions.
- (3) a diet consisting of a large amount of calories required to carry out the body functions.
- (4) a diet consisting of vitamins and minerals which are necessary for the body.

29. How does eating a variety of foods lead to over-eating ?

- (1) People cannot manage the portion size of food items which can result in over eating.
- (2) People tend to indulge in tasting more flavors which can result in over-eating.
- (3) People tend to eat more of calorie laden food which results in over-eating.
- (4) People tend to eat more food thinking that it would make their diet balanced and this results in over-eating.

30. What does the phrase a school of thought' mean ?

- (1) It means a school which is started by great thinkers and philosophers.
- (2) It means a school where it is taught how to think and meditate.
- (3) It means a school where thoughts are put into practice.
- (4) It means a particular idea or set of ideas held by a specific group.

31. What is the symbol of Gold ?

- | | |
|--------|--------|
| (1) Ag | (2) Au |
| (3) Ca | (4) G |

32. Who invented the telephone ?

- | | |
|---------------------------|---------------------|
| (1) Marie Curie | (2) Mark Marturello |
| (3) Alexander Graham Bell | (4) Nikola Tesla |

33. What is the national animal of India ?

- | | |
|------------|------------------|
| (1) Dolphi | (2) Parrot |
| (3) Lion | (4) Bengal Tiger |

34. What is the minimum age for becoming a Lok Sabha candidate ?

- | | |
|--------|--------|
| (1) 27 | (2) 25 |
| (3) 26 | (4) 28 |

35. Who was the first election commissioner of India ?

- | | |
|-----------------|-----------------|
| (1) Sukumar Sen | (2) Rajiv Kumar |
| (3) Om Birla | (4) Dhananjaya |

36. What is a "free throw" commonly associated with ?

- | | |
|----------------|---------------|
| (1) Football | (2) Badminton |
| (3) Basketball | (4) Cricket |

37. Which day is celebrated as World Press Freedom Day ?

- | | |
|-----------------|-----------------|
| (1) 10 April | (2) 15 February |
| (3) 18 December | (4) 3 May |

38. Who is the author of the famous book "We the People" ?

- | | |
|--------------------|---------------------|
| (1) Kushwant Singh | (2) Charles Dickens |
| (3) Emily Bronte | (4) Nani Palkhiyala |

39. Who appoints the Advocate General of each state of India ?
- (1) President (2) Governor of a state
(3) Prime Minister (4) Solicitor General
40. Who has been appointed as the new Chief of Research and Analysis Wing(RAW) ?
- (1) Ravi Sinha (2) Tapan Kumar Deka
(3) Ravindra Kaushik (4) Ajay Kumar Singh
41. Find the third proportional to the numbers 5 and 10.
- (1) 20 (2) 2.5
(3) 25 (4) 30
42. Ratio of boys to the girls in a class is 5 : 4. Which of the following cannot be the number of students in the class ?
- (1) 45 (2) 72
(3) 108 (4) 98
43. In an educational institution there are 15 more boys than girls. If the number of boys is increased by 20% and number of girls is increased by 15% there would be 29 more boys than girls. How many students are there in the institution ?
- (1) 250 (2) 255
(3) 230 (4) 220
44. Two oranges, three bananas and four apples cost Rs. 15. Three oranges, two bananas and one apple cost Rs.10. I bought 3 oranges, 3 bananas and 3 apples. How much did I pay ?
- (1) Rs. 15 (2) Rs. 8
(3) Rs. 10 (4) Cannot be determined

45. How many prime factors are there in the expression $(12)^{43} * (34)^{48} * (2)^{57}$?

- (1) 282 (2) 237
(3) 142 (4) 61

Directions (Q. Nos. 46-50) : A survey film watching habits of people living in 5 cities I, II, III, IV and V is summarised below. The column (1) gives percentage of film-watchers in each city who see only film a week. The column (2) gives the total number of film-watchers who see more than one film per week. Read the table and answer the questions.

City	(1)	(2)
I	50	3200
II	30	3500
III	65	7000
IV	25	5400
V	80	2900

46. How many film-watchers in City II see only one film a week ?

- (1) 900 (2) 1500
(3) 1600 (4) 3200

47. Which city has the highest number of film-watchers who see only film a week ?

- (1) I (2) II
(3) III (4) IV

48. The city with the lowest number of film-watcher is

- (1) I (2) II
(3) IV (4) V

49. The city with the highest number of film-watcher is
- (1) I (2) V
(3) IV (4) III
50. The total number of all film watchers in the five cities who see only one film a week is
- (1) 31100 (2) 29500
(3) 28600 (4) 28300
51. High-capacity computers used primarily for research purposes are :
- (1) Microcomputers (2) Minicomputers
(3) Mainframes (4) Supercomputers
52. Which piece of hardware do you need to connect to the internet ?
- (1) An ISP Account (2) A Modem
(3) A Browser (4) Internet Explorer
53. Which one of the following is *not* a network topology ?
- (1) Star (2) Bus
(3) Linear (4) Ring
54. Which of the following device could *not* be a part of a wired LAN based on star topology ?
- (1) Switch (2) Repeater
(3) Hub (4) Router

55. Which key strokes switch a user between simultaneously running applications in windows ?
- (1) FN + TAB (2) ALT + TAB
(3) CTRL + TAB (4) SHIFT + TAB
56. Which of the following operating systems use preemptive scheduling ?
- (1) Mac OS 8 (2) Window 3.x
(3) Windows 95 (4) DOS 6.0
57. What does URL stand for ?
- (1) Uniform Resource Locator
(2) Universal Resource Locator
(3) Uniform Retrieval Locator
(4) Universal Retrieval Locator
58. Which of the following is non-volatile memory ?
- (1) RAM (2) Cache
(3) CPU Register (4) ROM
59. Which port is typically used to connect a monitor to a computer ?
- (1) USB (2) Ethernet
(3) HDMI (4) Audio Jack
60. Which Linux command is used to change file permission ?
- (1) chmod (2) chperm
(3) perm (4) chown

61. Which of the following compound is mainly used in hand sanitizer ?
- (1) Alcohol (2) Acetic acid
(3) Aldehyde (4) Ketone
62. Which of the following glands is present in the human mouth ?
- (1) Adrenal (2) Pituitary
(3) Gonads (4) Salivary
63. What is the basic unit of our neural system ?
- (1) Neutron (2) Neuron
(3) Nephron (4) Nucleon
64. Name the part of the body on which coronavirus affects the most ?
- (1) Heart (2) Liver
(3) Kidney (4) Lungs
65. About 70% part of the sun is made up of :
- (1) Hydrogen (2) Oxygen
(3) Carbon (4) Helium
66. A Universal donor person have a blood group :
- (1) A (2) AB
(3) O (4) B
67. Name an instrument which is used to measure the Density of milk ?
- (1) Lactometer (2) Hydrometer
(3) Barometer (4) Hygrometer

75. The day before yesterday was Saturday. What will be the day after tomorrow ?
- (1) Wednesday (2) Monday
(3) Friday (4) Thursday
76. Look at the series: 36, 34, 30, 28, 24, .. What number should come next ?
- (1) 26 (2) 20
(3) 23 (4) 22
77. Which word is odd one out ?
- (1) fondness (2) Liking
(3) hate (4) Attachment
78. Pointing to a photograph of a boy Suresh said, "He is the son of the only son of my mother". How is Suresh related to that boy ?
- (1) Uncle (2) Brother
(3) Cousin (4) Father
79. The sum of ages of 4 friends A,B,C and D is 70 Years. What would be the total of their ages after 5 years later ?
- (1) 90 (2) 85
(3) 75 (4) 65
80. A man walks 1km to East and then he turns to South and walks 5 km. Again he turns to East and walks 2km. After this he turns to North and walks 9 km. Now, in which direction he is from starting point ?
- (1) North (2) South
(3) North-East (4) West

81. The averages of square of natural numbers from 1 to 35 is
- (1) 436 (2) 426
(3) 416 (4) 446
82. If A takes 4h to cover a distance and he is 2 times faster than B, then what time will B take to cover the same distance ?
- (1) 6 h (2) 8 h
(3) 9 h (4) None of them
83. A motor car does a journey in 9 h, the first half at 12 km/h and second half at 15km/h. Find the distance.
- (1) 120 km (2) 100 km
(3) 124 km (4) 96 km
84. A man is walking at a speed of 9 km/h. After every km he takes rest for 9 min. How much time will he take to cover a distance of 27 km ?
- (1) 6 h (2) 6 h 45 min
(3) 6 h 54 min (4) 6 h 35 min
85. At what rate of interest per annum will a sum becomes 5 times in 20 years at SI ?
- (1) 20% (2) 16%
(3) 25% (4) 10%
86. The difference between the compound interest and simple interest on a certain sum at 5% for 2 yr is Rs. 1.50. The sum is.....
- (1) Rs. 600 (2) Rs. 500
(3) Rs. 400 (4) Rs. 300

87. What principal will amount to Rs. 1352 in 2 years at 4% compound interest ?
- (1) Rs. 1520 (2) Rs. 1260
(3) Rs. 1250 (4) Rs. 1220
88. A and B can do a piece of work in 72 days; B and C can do it in 120 days; A and C can do it in 90 days. In what time can A alone do it ?
- (1) 150 days (2) 120 days
(3) 100 days (4) 80 days
89. A can do a certain job in 12 days. B is 60% more efficient than A. The number of days, it takes to do the same piece of work, is
- (1) 6 (2) $25/4$
(3) $15/2$ (4) 8
90. A pipe can fill a tank in 6 h. Due to leak in the bottom it is filled in 8 h. If the tank is full, how much time will the leak take to empty it ?
- (1) 24 h (2) 20 h
(3) 18 h (4) 12 h
91. The sum of first 20 odd counting numbers is :
- (1) 20 (2) 100
(3) 400 (4) 313
92. The positive integer which is nearest to 1000 and divisible by 2, 3, 4, 5 and 6 is
- (1) 1020 (2) 1040
(3) 960 (4) 1030

93. How many times is the HCF of 48, 36, 72 and 24 contained in their LCM ?
- (1) 12 (2) 10
(3) 24 (4) 14
94. The LCM of 5, 8, 12, 20 will not be a multiple of
- (1) 3 (2) 9
(3) 8 (4) 5
95. A man sold 250 chairs and had a gain equal to the selling price of 50 chairs. His profit percentage is
- (1) 25% (2) 10%
(3) 5% (4) 50%
96. In an election between two candidates, one got 55% of total valid votes. 20% of the votes were invalid. If the total number of votes were 7500, the number of valid votes that the other candidates got were
- (1) 2700 (2) 2900
(3) 3000 (4) 3100
97. A man's basic pay for a 40h week is Rs. 20. Overtime is paid for at 25% above the basic rate. In a certain week, he worked overtime and his total wage as Rs. 25. He therefore, worked for a total of
- (1) 45h (2) 47h
(3) 48h (4) 50h

98. If the cost price of 36 books is equal to the selling price of 30 books, then the gain percentage is
- (1) 20% (2) 25%
- (3) 16% (4) 30%
99. A dealer makes a profit of 20% by selling an article. What would be the percentage change in the profit percent if he had paid 20% less for it and the current paid 10% more for it?
- (1) 225% (2) 125%
- (3) 200% (4) 160%
100. The average weight of a class of 29 students is 40kg. If the weight of the teacher be included, the average rises by 500g. What is the weight of the teacher?
- (1) 40.5 kg (2) 50.5 kg
- (3) 45 kg (4) 55 kg

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

C

SET-Z

UG-EE-June, 2024

SUBJECT : BCA (4 Year)

10379

Sr. No.

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.**
- 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.
- 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.
- 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.
- 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.
- 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.**
- Use only **Black or Blue Ball Point Pen** of good quality in the OMR Answer-Sheet.
- 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-EE-June, 2024/(BCA-4 Yr.)(SET-Z)/(C)

SEAL

1. Which of the following compound is mainly used in hand sanitizer ?
 - (1) Alcohol
 - (2) Acetic acid
 - (3) Aldehyde
 - (4) Ketone

2. Which of the following glands is present in the human mouth ?
 - (1) Adrenal
 - (2) Pituitary
 - (3) Gonads
 - (4) Salivary

3. What is the basic unit of our neural system ?
 - (1) Neutron
 - (2) Neuron
 - (3) Nephron
 - (4) Nucleon

4. Name the part of the body on which coronavirus affects the most ?
 - (1) Heart
 - (2) Liver
 - (3) Kidney
 - (4) Lungs

5. About 70% part of the sun is made up of :
 - (1) Hydrogen
 - (2) Oxygen
 - (3) Carbon
 - (4) Helium

6. A Universal donor person have a blood group :
 - (1) A
 - (2) AB
 - (3) O
 - (4) B

7. Name an instrument which is used to measure the Density of milk ?
 - (1) Lactometer
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14. Two oranges, three bananas and four apples cost Rs. 15. Three oranges, two bananas and one apple cost Rs.10. I bought 3 oranges, 3 bananas and 3 apples. How much did I pay ?
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15. How many prime factors are there in the expression $(12)^{43} * (34)^{48} * (2)^{57}$?
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Directions (Q. Nos. 16-20) : A survey film watching habits of people living in 5 cities I, II, III, IV and V is summarised below. The column (1) gives percentage of film-watchers in each city who see only film a week. The column (2) gives the total number of film-watchers who see more than one film per week. Read the table and answer the questions.

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18. The city with the lowest number of film-watcher is
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20. The total number of all film watchers in the five cities who see only one film a week is
- (1) 31100 (2) 29500
(3) 28600 (4) 28300
21. Spot the error :
- While four of them surrendered, three others (a) / escaped under the cover of heavy firing at Handwara (b) / in the Kupwara district, about 70km from state capital Srinagar (c)
- (1) a (2) No Error
(3) b (4) c
22. Three of four words given in this question are spelt wrong. Select the word that is spelt correctly :
- (1) irrelevant (2) irrelevant
(3) irrelevat (4) irrellevant
23. Fill in the blank with an appropriate preposition or conjunction. She is not very talented, she is highly successful.
- (1) yet (2) despite
(3) however (4) in spite

28. Choose the correct spelling :
- (1) Perceved (2) Perceived
(3) Perseived (4) Percieved
29. Out of given alternatives, choose the word which can be substituted for the given word/sentence.
The action or an instance of making a judgment about something.
- (1) Assessment (2) Conservation
(3) Evolving (4) Chaos
30. Out of given alternatives, choose the word which can be substituted for the given word/sentence.
The act of using someone or something unfairly for your own advantage.
- (1) Evolving (2) Severity
(3) Exploitation (4) Bolster
31. In Windows, what is the shortcut key to open Task Manager ?
- (1) Ctrl + Alt + Delete (2) Ctrl + Shift + Esc
(3) Alt + F4 (4) Ctrl + Esc
32. Which part of an email address comes after the '@' symbol ?
- (1) Username (2) Domain name
(3) Subject (4) Service Provider Name
33. Which of the following is *not* a web browser ?
- (1) Google Chrome (2) Mozilla Firefox
(3) Microsoft Edge (4) Ubuntu

- C
34. What is the purpose of "Bcc" (Blind Carbon Copy) field in an email ?
- (1) To send a copy of the email to additional recipients without their address being visible to other recipients
 - (2) To attach files to the email
 - (3) To set the priority of the email
 - (4) To format the email text
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37. Choose the correct synonym for the word 'STRIFE' given from the options below :
- (1) Concord
 - (2) Peace
 - (3) Truce
 - (4) Battle
38. Which of the following will be the correct sentence in passive voice ?
- Active Voice : They sun-dried the fenugreek leaves to make spices.
- (1) The spices were made by sun-dried fenugreek leaves.
 - (2) The fenugreek leaves were sun-dried to make spices.
 - (3) They made the spices by sun-drying the fenugreek leaves.
 - (4) The sun-dried fenugreek leaves were used for making species.

39. Which of the following will be the correct sentence in passive voice ?

Active Voice : I saw the thief leaving the house.

- (1) The thief was seen to be leaving the house.
- (2) Leaving the house, I saw the thief.
- (3) The thief had been seen leaving the house
- (4) The thief was seen leaving the house by me.

40. Spot the error :

Two hours after its (a) / take-off, the flight reached (b) / Mumbai Airport, when (c) / it stopped for a short Interval (d)

- (1) a
- (2) b
- (3) c
- (4) d

41. If PINK is coded as 1691411, then RED will be coded as :

- (1) 1963
- (2) 1853
- (3) 1854
- (4) 1954

42. Which of the following is the odd one from the given alternatives ?

- (1) Diving
- (2) Driving
- (3) Swimming
- (4) Sailing

43. Which of the following pairs of words are differently related ?

- (1) Kind : cruel
- (2) Stale : fresh
- (3) slow : sluggish
- (4) Truth : lie

44. Drama : Stage : : Tennis :

- | | |
|----------------|------------|
| (1) Court | (2) Net |
| (3) Tournament | (4) Racket |

45. The day before yesterday was Saturday. What will be the day after tomorrow ?

- | | |
|---------------|--------------|
| (1) Wednesday | (2) Monday |
| (3) Friday | (4) Thursday |

46. Look at the series: 36, 34, 30, 28, 24, .. What number should come next ?

- | | |
|--------|--------|
| (1) 26 | (2) 20 |
| (3) 23 | (4) 22 |

47. Which word is odd one out ?

- | | |
|--------------|----------------|
| (1) fondness | (2) Liking |
| (3) hate | (4) Attachment |

48. Pointing to a photograph of a boy Suresh said, "He is the son of the only son of my mother". How is Suresh related to that boy ?

- | | |
|------------|-------------|
| (1) Uncle | (2) Brother |
| (3) Cousin | (4) Father |

49. The sum of ages of 4 friends A,B,C and D is 70 Years. What would be the total of their ages after 5 years later ?

- | | |
|--------|--------|
| (1) 90 | (2) 85 |
| (3) 75 | (4) 65 |

50. A man walks 1km to East and then he turns to South and walks 5 km. Again he turns to East and walks 2km. After this he turns to North and walks 9 km. Now, in which direction he is from starting point ?
- (1) North (2) South
(3) North-East (4) West
51. The sum of first 20 odd counting numbers is :
- (1) 20 (2) 100
(3) 400 (4) 313
52. The positive integer which is nearest to 1000 and divisible by 2, 3, 4, 5 and 6 is
- (1) 1020 (2) 1040
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53. How many times is the HCF of 48, 36, 72 and 24 contained in their LCM ?
- (1) 12 (2) 10
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- (1) 3 (2) 9
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55. A man sold 250 chairs and had a gain equal to the selling price of 50 chairs. His profit percentage is
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56. In an election between two candidates, one got 55% of total valid votes. 20% of the votes were invalid. If the total number of votes were 7500, the number of valid votes that the other candidates got were
- (1) 2700 (2) 2900
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- (1) 45h (2) 47h
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58. If the cost price of 36 books is equal to the selling price of 30 books, then the gain percentage is
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60. The average weight of a class of 29 students is 40kg. If the weight of the teacher be included, the average rises by 500g. What is the weight of the teacher ?
- (1) 40.5 kg (2) 50.5 kg
(3) 45 kg (4) 55 kg

61. What is the symbol of Gold ?
(1) Ag (2) Au
(3) Ca (4) G
62. Who invented the telephone ?
(1) Marie Curie (2) Mark Marturello
(3) Alexander Graham Bell (4) Nikola Tesla
63. What is the national animal of India ?
(1) Dolphi (2) Parrot
(3) Lion (4) Bengal Tiger
64. What is the minimum age for becoming a Lok Sabha candidate ?
(1) 27 (2) 25
(3) 26 (4) 28
65. Who was the first election commissioner of India ?
(1) Sukumar Sen (2) Rajiv Kumar
(3) Om Birla (4) Dhananjaya
66. What is a "free throw" commonly associated with ?
(1) Football (2) Badminton
(3) Basketball (4) Cricket
67. Which day is celebrated as World Press Freedom Day ?
(1) 10 April (2) 15 February
(3) 18 December (4) 3 May

68. Who is the author of the famous book "We the People" ?
- (1) Kushwant Singh (2) Charles Dickens
(3) Emily Bronte (4) Nani Palkhivala
69. Who appoints the Advocate General of each state of India ?
- (1) President (2) Governor of a state
(3) Prime Minister (4) Solicitor General
70. Who has been appointed as the new Chief of Research and Analysis Wing(RAW) ?
- (1) Ravi Sinha (2) Tapan Kumar Deka
(3) Ravindra Kaushik (4) Ajay Kumar Singh
71. The averages of square of natural numbers from 1 to 35 is
- (1) 436 (2) 426
(3) 416 (4) 446
72. If A takes 4h to cover a distance and he is 2 times faster than B, then what time will B take to cover the same distance ?
- (1) 6 h (2) 8 h
(3) 9 h (4) None of them
73. A motor car does a journey in 9 h, the first half at 12 km/h and second half at 15km/h. Find the distance.
- (1) 120 km (2) 100 km
(3) 124 km (4) 96 km

74. A man is walking at a speed of 9 km/h. After every km he takes rest for 9 min. How much time will he take to cover a distance of 27 km ?
- (1) 6 h (2) 6 h 45 min
(3) 6 h 54 min (4) 6 h 35 min
75. At what rate of interest per annum will a sum becomes 5 times in 20 years at SI ?
- (1) 20% (2) 16%
(3) 25% (4) 10%
76. The difference between the compound interest and simple interest on a certain sum at 5% for 2 yr is Rs. 1.50. The sum is.....
- (1) Rs. 600 (2) Rs. 500
(3) Rs. 400 (4) Rs. 300
77. What principal will amount to Rs. 1352 in 2 years at 4% compound interest ?
- (1) Rs. 1520 (2) Rs. 1260
(3) Rs. 1250 (4) Rs. 1220
78. A and B can do a piece of work in 72 days; B and C can do it in 120 days; A and C can do it in 90 days. In what time can A alone do it ?
- (1) 150 days (2) 120 days
(3) 100 days (4) 80 days
79. A can do a certain job in 12 days. B is 60% more efficient than A. The number of days, it takes to do the same piece of work, is
- (1) 6 (2) $25/4$
(3) $15/2$ (4) 8

80. A pipe can fill a tank in 6 h. Due to leak in the bottom it is filled in 8 h. If the tank is full, how much time will the leak take to empty it ?

- (1) 24 h (2) 20 h
(3) 18 h (4) 12 h

81. Out of given alternatives, choose the word which can be substituted for the given word/sentence.

Satisfactory or acceptable in quality or quantity.

- (1) Restoration (2) Adequate
(3) Recognizing (4) Spanning

82. The question below contains four scattered segments of a sentence. Indicate the sequence which correctly assembles the segments and completes the sentence :

- (a) his contribution to the (b) completely ignored as soon
(c) as he retired from work (d) field of astronomy were
(1) a c b d (2) b a c d
(3) a b d c (4) a d b c

83. Rearrange the following jumbled sentences to make a meaningful one :

- (P) are inhibiting progress
(Q) they look for creative
(R) rather than the conventional solution of outsourcing
(S) solutions to the problems that
(1) SRQP (2) PQRS
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84. In the given question, a short passage is given with one of the lines in the passage missing and represented by a blank. Select the best out of the five answer choices given, to make the passage complete and coherent.

As people return to life and work post the lockdown, some predictions point to a mad rush to do even more than before. Travel more, buy more, meet more people, eat out more -do more of more. Much more is anticipated from the State. Some see it as an opportunity to overtake China.

- (1) The government too is expected to do more to restore economic growth and livelihoods.
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The fragmentation of the anti-XYZ vote now gives a clear edge to the incumbent party. But beyond the arithmetic, the collapse of the possible alliance in Delhi sends out two messages. It reinforces XYZ's narrative that opposition parties are weak and squabbling, dominated by narrow interests And while seven seats may not be a lot, the battle in Delhi has always been symbolic and watched widely across the country. While calling it a bellwether state may be somewhat of an exaggeration, the party which wins Delhi has usually done well nationally.

- (1) with so much commons
- (2) without commons
- (3) with little in common
- (4) with ecstasy

Directions (Q. Nos. 86 to 90) : Read the following comprehension and answer the questions based on it.

A balanced diet means getting the right types and amounts of foods and drinks to supply nutrition and energy for maintaining body cells, tissues, and organs, and for supporting normal growth and development. Eating a balanced diet means choosing a wide variety of foods and drinks from all the food groups. It also means eating certain things in moderation, namely saturated fat, trans fat, cholesterol, refined sugar, salt and alcohol. The goal is to take in nutrients you need for health at the recommended levels. Your balanced diet must be planned at your own calorie level, and portion size is key. You want to get the most nutrients for the calories by choosing food with a high-nutrient density. Nutrient-dense foods provide substantial amounts of vitamins and minerals and relatively few calories, such as fresh fruit and vegetables, lean meat and fish, and whole grains and beans. Low-nutrient dense foods have few vitamins but lots of calories, such as candy bars, soda, donuts and onion rings. Nutrition guidelines recommend eating a wide variety of foods. But, there's a school of thought that eating variety of foods leads to overeating. There is the tendency to stay hungry longer and eat more food when flavors are diverse and keep changing because we fill up on fewer calories when flavor variety is controlled. We have seen this principle in action when we come home with a load of groceries and want to sample the wide variety of tasty foods.

86. Which two categories of food mentioned in the passage are opposite to each other in nutritional values ?

- (1) The two food categories are 'Nutrient-dense foods' and 'low-nutrient dense foods'.
- (2) The two food categories are 'A balanced diet' and 'A unbalanced diet'.
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87. Which word in the passage means the same as adequate ?

- | | |
|-----------------|-----------------|
| (1) Over-eating | (2) Refined |
| (3) Recommended | (4) Substantial |

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|--------------------|--------------------|
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C

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- | | |
|------------------|-----------|
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- | | |
|----------|----------------|
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100. Which Linux command is used to change file permission ?

- | | |
|-----------|------------|
| (1) chmod | (2) chperm |
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(DO NOT OPEN THIS QUESTION BOOKLET BEFORE TIME OR UNTIL YOU
ARE ASKED TO DO SO)

D

SET-Z

UG-EE-June, 2024

SUBJECT : BCA (4 Year)

10376

Sr. No.

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.**
- 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.
- 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.
- 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.
- 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.
- 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.**
- Use only **Black or Blue Ball Point Pen** of good quality in the OMR Answer-Sheet.
- 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-EE-June, 2024/(BCA-4 Yr.)(SET-Z)/(D)

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21. In Windows, what is the shortcut key to open Task Manager ?
- (1) Ctrl + Alt + Delete (2) Ctrl + Shift + Esc
(3) Alt + F4 (4) Ctrl + Esc
22. Which part of an email address comes after the '@' symbol ?
- (1) Username (2) Domain name
(3) Subject (4) Service Provider Name
23. Which of the following is *not* a web browser ?
- (1) Google Chrome (2) Mozilla Firefox
(3) Microsoft Edge (4) Ubuntu

24. What is the purpose of "Bcc" (Blind Carbon Copy) field in an email ?
- (1) To send a copy of the email to additional recipients without their address being visible to other recipients
 - (2) To attach files to the email
 - (3) To set the priority of the email
 - (4) To format the email text
25. What does the acronym 'IM' stand for in internet communication ?
- (1) Instant Messaging
 - (2) Internet Messaging
 - (3) International Messaging
 - (4) Internal Messaging
26. Choose the correct antonym (opposite) for the word 'CORDIAL' given from the options below :
- (1) Unfriendly
 - (2) Sweet
 - (3) Affable
 - (4) Frigid
27. Choose the correct synonym for the word 'STRIFE' given from the options below :
- (1) Concord
 - (2) Peace
 - (3) Truce
 - (4) Battle
28. Which of the following will be the correct sentence in passive voice ?
- Active Voice : They sun-dried the fenugreek leaves to make spices.
- (1) The spices were made by sun-dried fenugreek leaves.
 - (2) The fenugreek leaves were sun-dried to make spices.
 - (3) They made the spices by sun-drying the fenugreek leaves.
 - (4) The sun-dried fenugreek leaves were used for making species.

29. Which of the following will be the correct sentence in passive voice ?

Active Voice : I saw the thief leaving the house.

- (1) The thief was seen to be leaving the house.
- (2) Leaving the house, I saw the thief.
- (3) The thief had been seen leaving the house
- (4) The thief was seen leaving the house by me.

30. Spot the error :

Two hours after its (a) / take-off, the flight reached (b) / Mumbai Airport, when (c) / it stopped for a short Interval (d)

- (1) a
- (2) b
- (3) c
- (4) d

31. Which of the following compound is mainly used in hand sanitizer ?

- (1) Alcohol
- (2) Acetic acid
- (3) Aldehyde
- (4) Ketone

32. Which of the following glands is present in the human mouth ?

- (1) Adrenal
- (2) Pituitary
- (3) Gonads
- (4) Salivary

33. What is the basic unit of our neural system ?

- (1) Neutron
- (2) Neuron
- (3) Nephron
- (4) Nucleon

34. Name the part of the body on which coronavirus affects the most ?
- (1) Heart (2) Liver
(3) Kidney (4) Lungs
35. About 70% part of the sun is made up of :
- (1) Hydrogen (2) Oxygen
(3) Carbon (4) Helium
36. A Universal donor person have a blood group :
- (1) A (2) AB
(3) O (4) B
37. Name an instrument which is used to measure the Density of milk ?
- (1) Lactometer (2) Hydrometer
(3) Barometer (4) Hygrometer
38. Which of the following is/are the symptoms of Black Fungus ?
- a. Facial Swelling b. Nasal Congestion
c. Headache
- (1) Only a (2) Only b
(3) Both b and c (4) a, b and c
39. Which of the following is used in pencils ?
- (1) Silicon (2) Graphite
(3) Charcoal (4) Phosphorous
40. The gas usually filled in the electric bulb :
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(3) perm (4) chown

51. Spot the error :

While four of them surrendered, three others (a) / escaped under the cover of heavy firing at Handwara (b) / in the Kupwara district, about 70km from state capital Srinagar (c)

- (1) a (2) No Error
(3) b (4) c

52. Three of four words given in this question are spelt wrong. Select the word that is spelt correctly :

- (1) irelevant (2) irrelevant
(3) irrelevant (4) irrellevant

53. Fill in the blank with an appropriate preposition or conjunction. She is not very talented, she is highly successful.

- (1) yet (2) despite
(3) however (4) in spite

54. Fill in the blank with an appropriate preposition or conjunction he was an illiterate, he managed to achieve success through hardwork.

- (1) In spite of (2) Despite
(3) As if (4) Although

55. Fill in the blank with an appropriate tense.

Only one of the boys not done the home-work given yesterday.

- (1) have (2) has
(3) can (4) could

56. Select the correct transformation of the following direct speech to indirect.

He said, "I will go to college tomorrow".

- (1) He said that he would go to college the next day.
(2) He says that he would go to college the next day.
(3) He says that he would go to college tomorrow.
(4) He said that he would go to college tomorrow.

57. Select the correct transformation of the following direct speech to indirect.

He said to me, "Why are you troubling me?"

- (1) He asked me why am I troubling him.
(2) He asked me why have I been troubling him.
(3) He asked me why I was troubling him.
(4) He asked me why was I troubling him.

58. Choose the correct spelling :

- (1) Perceved (2) Perceived
(3) Perseived (4) Percieved

59. Out of given alternatives, choose the word which can be substituted for the given word/sentence.

The action or an instance of making a judgment about something.

- (1) Assessment (2) Conservation
(3) Evolving (4) Chaos

60. Out of given alternatives, choose the word which can be substituted for the given word/sentence.

The act of using someone or something unfairly for your own advantage.

- (1) Evolving (2) Severity
(3) Exploitation (4) Bolster

61. The averages of square of natural numbers from 1 to 35 is

- (1) 436 (2) 426
(3) 416 (4) 446

62. If A takes 4h to cover a distance and he is 2 times faster than B, then what time will B take to cover the same distance ?

- (1) 6 h (2) 8 h
(3) 9 h (4) None of them

63. A motor car does a journey in 9 h, the first half at 12 km/h and second half at 15km/h. Find the distance.
- (1) 120 km (2) 100 km
(3) 124 km (4) 96 km
64. A man is walking at a speed of 9 km/h. After every km he takes rest for 9 min. How much time will he take to cover a distance of 27 km ?
- (1) 6 h (2) 6 h 45 min
(3) 6 h 54 min (4) 6 h 35 min
65. At what rate of interest per annum will a sum becomes 5 times in 20 years at SI ?
- (1) 20% (2) 16%
(3) 25% (4) 10%
66. The difference between the compound interest and simple interest on a certain sum at 5% for 2 yr is Rs. 1.50. The sum is.....
- (1) Rs. 600 (2) Rs. 500
(3) Rs. 400 (4) Rs. 300
67. What principal will amount to Rs. 1352 in 2 years at 4% compound interest ?
- (1) Rs. 1520 (2) Rs. 1260
(3) Rs. 1250 (4) Rs. 1220
68. A and B can do a piece of work in 72 days; B and C can do it in 120 days; A and C can do it in 90 days. In what time can A alone do it ?
- (1) 150 days (2) 120 days
(3) 100 days (4) 80 days

69. A can do a certain job in 12 days. B is 60% more efficient than A. The number of days, it takes to do the same piece of work, is
- (1) 6 (2) $25/4$
(3) $15/2$ (4) 8
70. A pipe can fill a tank in 6 h. Due to leak in the bottom it is filled in 8 h. If the tank is full, how much time will the leak take to empty it ?
- (1) 24 h (2) 20 h
(3) 18 h (4) 12 h
71. Find the third proportional to the numbers 5 and 10.
- (1) 20 (2) 2.5
(3) 25 (4) 30
72. Ratio of boys to the girls in a class is 5 : 4. Which of the following cannot be the number of students in the class ?
- (1) 45 (2) 72
(3) 108 (4) 98
73. In an educational institution there are 15 more boys than girls. If the number of boys is increased by 20% and number of girls is increased by 15% there would be 29 more boys than girls. How many students are there in the institution ?
- (1) 250 (2) 255
(3) 230 (4) 220

74. Two oranges, three bananas and four apples cost Rs. 15. Three oranges, two bananas and one apple cost Rs.10. I bought 3 oranges, 3 bananas and 3 apples. How much did I pay ?
- (1) Rs. 15 (2) Rs. 8
(3) Rs. 10 (4) Cannot be determined
75. How many prime factors are there in the expression $(12)^{43} * (34)^{48} * (2)^{57}$?
- (1) 282 (2) 237
(3) 142 (4) 61

Directions (Q. Nos. 76-80) : A survey film watching habits of people living in 5 cities I, II, III, IV and V is summarised below. The column (1) gives percentage of film-watchers in each city who see only film a week. The column (2) gives the total number of film-watchers who see more than one film per week. Read the table and answer the questions.

City	(1)	(2)
I	50	3200
II	30	3500
III	65	7000
IV	25	5400
V	80	2900

76. How many film-watchers in City II see only one film a week ?
- (1) 900 (2) 1500
(3) 1600 (4) 3200

77. Which city has the highest number of film-watchers who see only film a week ?
- (1) I (2) II
(3) III (4) IV
78. The city with the lowest number of film-watcher is
- (1) I (2) II
(3) IV (4) V
79. The city with the highest number of film-watcher is
- (1) I (2) V
(3) IV (4) III
80. The total number of all film watchers in the five cities who see only one film a week is
- (1) 31100 (2) 29500
(3) 28600 (4) 28300
81. What is the symbol of Gold ?
- (1) Ag (2) Au
(3) Ca (4) G
82. Who invented the telephone ?
- (1) Marie Curie (2) Mark Marturello
(3) Alexander Graham Bell (4) Nikola Tesla

- 83.** What is the national animal of India ?
(1) Dolphi (2) Parrot
(3) Lion (4) Bengal Tiger
- 84.** What is the minimum age for becoming a Lok Sabha candidate ?
(1) 27 (2) 25
(3) 26 (4) 28
- 85.** Who was the first election commissioner of India ?
(1) Sukumar Sen (2) Rajiv Kumar
(3) Om Birla (4) Dhananjaya
- 86.** What is a "free throw" commonly associated with ?
(1) Football (2) Badminton
(3) Basketball (4) Cricket
- 87.** Which day is celebrated as World Press Freedom Day ?
(1) 10 April (2) 15 February
(3) 18 December (4) 3 May
- 88.** Who is the author of the famous book "We the People" ?
(1) Kushwant Singh (2) Charles Dickens
(3) Emily Bronte (4) Nani Palkhivala
- 89.** Who appoints the Advocate General of each state of India ?
(1) President (2) Governor of a state
(3) Prime Minister (4) Solicitor General

D

90. Who has been appointed as the new Chief of Research and Analysis Wing(RAW) ?
- (1) Ravi Sinha (2) Tapan Kumar Deka
(3) Ravindra Kaushik (4) Ajay Kumar Singh
91. If PINK is coded as 1691411, then RED will be coded as :
- (1) 1963 (2) 1853
(3) 1854 (4) 1954
92. Which of the following is the odd one from the given alternatives ?
- (1) Diving (2) Driving
(3) Swimming (4) Sailing
93. Which of the following pairs of words are differently related ?
- (1) Kind : cruel (2) Stale : fresh
(3) slow : sluggish (4) Truth : lie
94. Drama : Stage :: Tennis :
- (1) Court (2) Net
(3) Tournament (4) Racket
95. The day before yesterday was Saturday. What will be the day after tomorrow ?
- (1) Wednesday (2) Monday
(3) Friday (4) Thursday
96. Look at the series: 36, 34, 30, 28, 24, .. What number should come next ?
- (1) 26 (2) 20
(3) 23 (4) 22

97. Which word is odd one out ?
- (1) fondness (2) Liking
(3) hate (4) Attachment
98. Pointing to a photograph of a boy Suresh said, "He is the son of the only son of my mother". How is Suresh related to that boy ?
- (1) Uncle (2) Brother
(3) Cousin (4) Father
99. The sum of ages of 4 friends A,B,C and D is 70 Years. What would be the total of their ages after 5 years later ?
- (1) 90 (2) 85
(3) 75 (4) 65
100. A man walks 1km to East and then he turns to South and walks 5 km. Again he turns to East and walks 2km. After this he turns to North and walks 9 km. Now, in which direction he is from starting point ?
- (1) North (2) South
(3) North-East (4) West

Answer keys of Bachelor of Computer Application (BCA) 4-Years entrance exam dated 24.06.2024

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

Sheeraj
24/06/24

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Answer keys of Bachelor of Computer Application (BCA) 4-Years entrance exam dated 24.06.2024

Q. NO.	A	B	C	D
51	1	4	3	2
52	4	2	1	3
53	4	3	1	1
54	1	2	2	4
55	1	2	1	2
56	2	3	1	1
57	3	1	3	3
58	2	4	1	2
59	4	3	4	1
60	1	1	4	3
61	4	1	2	2
62	2	4	3	2
63	3	2	4	1
64	2	4	2	3
65	2	1	1	1
66	3	3	3	1
67	1	1	4	3
68	4	4	4	2
69	3	2	2	3
70	1	3	1	1
71	2	3	2	1
72	2	2	2	4
73	4	3	1	4
74	1	1	3	1
75	1	1	1	1
76	1	4	1	2
77	4	3	3	3
78	3	4	2	2
79	4	1	3	4
80	3	3	1	1
81	2	2	2	2
82	3	2	4	3
83	1	1	3	4
84	4	3	1	2
85	2	1	3	1
86	1	1	1	3
87	3	3	4	4
88	2	2	1	4
89	1	3	2	2
90	3	1	4	1
91	2	3	4	3
92	4	1	2	2
93	3	1	3	3
94	1	2	2	1
95	3	1	2	1
96	1	1	3	4
97	4	3	1	3
98	1	1	4	4
99	2	4	3	1
100	4	4	1	3

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