

**Model Questions for  
Bachelor in Computer Application (BCA)  
Set I**



**Tribhuvan University**  
**Faculty of Humanities & Social Sciences**  
**OFFICE OF THE DEAN**  
**2018**

**Bachelor in Computer Applications (BCA)**  
**Entrance Exam**

**Full Marks: 100**

**Time: 2 hrs.**

**Group A [English]**

**Circle the correct answer from among the given options (Multiple Choice Questions)**

1. The danger of volcanoes ..... not to be taken lightly.  
a) must                      b) might                      c) has                      d) have
2. Ramesh ..... here for the last seven years.  
a) worked                      b) is working                      c) has worked                      d) works
3. Supply the correct tag for the following statement.  
*Let us go, .....*  
a) shall we?                      b) will we?                      c) do we?                      d) don't we?
4. Two ladies had ..... hand bags stolen at the Kathmandu Mall.  
a) its                      b) her                      c) their                      d) they
5. They are as lucky as .....
6. Sincere people abide ..... their promise.  
a) by                      b) of                      c) at                      d) on
7. The new manager will ..... his position on August 30.  
a) take off                      b) take out                      c) take over                      d) take after
8. Choose the correct alternative for underlined phrase in the given sentence.  
*He got a Lion's share of the profits.*  
a) no share at all                      b) greater share of a things

- c) very small part    d) little profit
9. There is someone in the room ..... I certainly heard a great noise.  
a) and    b) but    c) for    d) so
10. Neither of them ..... a problem.  
a) anticipate    b) anticipates    c) have anticipated    d) are anticipating
11. Choose the correct passive voice for the following sentence.  
*We celebrate Democracy Day on Falgun seven.*  
a) Democracy Day is celebrated on Falgun seven by us.  
b) Democracy Day was celebrated on Falgun seven by us.  
c) Democracy Day has been celebrated on Falgun seven by us.  
d) Democracy Day had been celebrated on Falgun seven by us.
12. She is ..... obedient student.  
a) an    b) a    c) the    d) none of the above.
13. Choose the correct answer from among the given options.  
*I don't think I ..... be able to go.*  
a) will    b) should    c) can    d) could
14. Choose the correct single word for the group of words given below.  
*That which cannot be divided.*  
a) indelible    b) indivisible    c) insoluble    d) indefensible
15. Which of the following words is an abstract noun?  
a) desk    b) fear    c) class    d) needle
16. Which of the following words does not have a suffix?  
a) helpless    b) goodness    c) fearless    d) courage
17. The opposite meaning of 'accepted' is,  
a) liked    b) noted    c) provided    d) rejected
18. Choose the word nearest in meaning to 'emulate'.  
a) Imitate    b) Deny    c) Discuss    d) Reject
19. Choose the correct synonym for the underlined word in the following sentence.  
*Raman is a versatile boy.*  
a) bad    b) clumsy    c) gifted    d) lazy
20. Select the correct antonym for 'segregation'.  
a) appreciation    b) integration    c) cohesion    d) co-ordination
21. Fill in the gap with the correct word from among the given options.  
*The price of consumer goods ..... increasing.*  
a) are    b) is    c) were    d) has been
22. Which of the following sentences is incorrect in terms of subject verb agreement?  
a) Each of the women owns her home.    b) All of the women own their own homes.  
c) Here are two wrenches and a hammer.    d) Here is a hammer and two wrenches.
23. Which of the following sentences has the correct use of comma (,)?  
a) June 27, 2018, is a day I will never forget.  
b) Some people who go to school, enjoy the social life.

- c) He was late for dinner, we decided to eat without him.  
 d) We were glad to see him, because he had brought gifts.
24. Choose the part participate of the verb *quit*.  
 a) quited                      b) quit                      c) quitting                      d) has quit
25. Choose the correct alternative from among the given options.  
*We spent a ..... evening together.*  
 a) quite                      b) quit                      c) quiet                      d) quitter
26. Which of the following words needs capitalization?  
 a) winter                      b) ocean                      c) jewish                      d) university
27. Choose the correct preposition from among the given options.  
*He is occurred ..... cheating.*  
 a) for                      b) of                      c) on                      d) in
28. Select the correct alternative to fill in the gap in the following sentence.  
*He is coming here ..... six o'clock.*  
 a) upon                      b) on                      c) at                      d) to
29. Select the correct meaning of the idiom in,  
*In the good book of*  
 a) enjoying a pleasant moment.                      b) enjoying a favour of someone.  
 c) possessing a good book for reading.                      d) purchasing a good book.
30. Fill in the gap in the following sentence from among the given options.  
*I am ..... tired to go any further.*  
 a) to                      b) too                      c) so                      d) not
31. Which is the correct indirect speech for the direct speech given below?  
*Hari says, "I am very happy".*  
 a) Hari says he is very happy.                      b) Hari says he was very happy.  
 c) Hari said he is very happy.                      d) Hari said he was very happy.
32. Select the interrogative sentence from the given options below.  
 a) Shall I see you tomorrow?                      b) He has studied English for a long time.  
 c) They won't believe you.                      d) It will be dark soon.
33. Put the correct verb form in the gap below.  
*I ..... told you earlier if I had known.*  
 a) would                      b) would have                      c) had                      d) should
34. Choose the right pronoun from the given alternatives in the following sentence.  
*If everybody does ..... part, the game should go smoothly.*  
 a) his                      b) her                      c) his or her                      d) their
35. Which of the following word is an adverb?  
 a) good                      b) bad                      c) well                      d) melt

**Read the given passage and then choose the best answer to each question that follows.**

Recent advances in science and technology have made it possible for geneticists to find out abnormalities in the unborn foetus and take remedial action to rectify some defects which would otherwise prove to be fatal to the child. Though genetic engineering is still at its infancy, scientists can now predict with greater accuracy a genetic disorder. It is not yet an exact science. Since they are not in a position to predict when to change the genetic order of the gene in germs, they are optimistic and are holding out that in the near future they might be successful in achieving this feat. They have however, acquired the ability in manipulating tissue cells. Still, genetic misinformation can sometimes be damaging for it may adversely affect people psychologically. Genetic information may lead to a tendency to brand some people as inferiors. Genetic information can therefore be abused and its application in deciding the sex of the foetus and its subsequent abortion is now hotly debated on ethical lines. But on this issue, geneticists cannot be squarely blamed, through this charge has often been leveled at them. It is mainly detecting disorders, but scientists hope to reduce the costs when technology becomes more advanced in rich countries take the USA, UK and Japan. It remains to be seen if in the future this science will lead to the development of a race of supermen who will be able to obliterate disease from the world.

36. Which of the following is the same in meaning as in the word 'obliterate' used in the passage?  
 a) Wipe out                      b) Wipe off                      c) Very Literate                      d) Remove
37. Which of the following is term regarding the reasons for progress in genetic engineering?  
 a) Poor countries need genetic information.  
 b) It has become popular subject.  
 c) Economically and scientifically advanced countries can provide infrastructure for such research.  
 d) Human beings are interrelated in hereditary.
38. According to the passage the question of abortion is,  
 a) hotly debated                      b) ignored                      c) unanswered                      d) undecided
39. Which of the following is not true about the genetic engineering?  
 a) Acquired ability to detect disorder in unborn babies.  
 b) Possibility of abuse.  
 c) Increased tendency to manipulate gene cells.  
 d) Acquired ability to manipulate tissue cells.
40. According to the author of the passage, the present state of knowledge about heredity has made geneticists.  
 a) reckless                      b) optimistic                      c) introspective                      d) arrogant

### Group B [Mathematics]

41. A number is divided by 10 gives a remainder 7. If the same number is divided by 5, then what will be the remainder?  
 a) 1                      b) 2                      c) 3                      d) 4
42. Which one of the following value of 'n' gives the negative result on  $n^2 - 15$ ?  
 a) 7                      b) 5                      c) 3                      d) 4
43. If 'n' is an integer, then which one of the following expression must be even?  
 a)  $n(n + 1)$                       b)  $n^2 + 1$                       c)  $n(n + 2)$                       d)  $n(n + 4)$
44. What is the sum of first five prime numbers?

- a) 18                      b) 25                      c) 26                      d) 28
45. If you save 1 paisa today, 2 paisa next day, 4 paisa the succeeding day and so on, then what is the total saving on the week?  
a) 127 paisa              b) 64 paisa              c) 256 paisa              d) 128 paisa
46. What is the value of  $\sum_{n=10}^{10} (-1)^n$  ?  
a) 0                      b) -1                      c) 1                      d) 10
47. If 6 is subtracted from the cube of a number and the result is 21, then what is the value of that number?  
a) 2                      b) 3                      c) 4                      d) 5
48. If the product of two consecutive even number is 288, then what are these numbers from following?  
a) 14, 12              b) 14, 16              c) 16, 18              d) 22, 24
49. The total of ages of A and B is 3:5, if B is 8 years elder to A, then what is the age of the A?  
a) 12 yrs.              b) 15 yrs.              c) 18 yrs.              d) 21 yrs.
50. If the root of the equation  $x^2 - 6x + c = 0$  is 3, then what is the value of c?  
a) 3                      b) 6                      c) 8                      d) 9
51. Which one of the following is true for the roots of the equation  $x^2 - 8x + 16 = 0$ ?  
a) imaginary & unequal              b) rational & unequal  
c) real & equal                      d) real & unequal
52. If the matrix is of order 5 x 3, then how many elements will be single column?  
a) 5                      b) 3                      c) 4                      d) 15
53. If  $x - 5 = 1$ , then what is the value of  $x + 7$ ?  
a) 5                      b) 7                      c) 8                      d) 13
54. If  $5x + 13 = 31$ , what is the value of  $\sqrt{(5x + 31)}$  ?  
a) 5                      b) 6                      c) 7                      d) 8
55. What is the correct value of  $\frac{5^4 - 5^3}{4}$  .  
a)  $5^3$                       b)  $\frac{1}{5}$                       c)  $5^4$                       d)  $\frac{5}{4}$
56. If  $a^x = b$ ,  $b^y = c$  and  $c^z = a$ , then what is the value of  $xyz$ ?  
a) c                      b) a                      c) b                      d) 1
57. If  $6p + 6q = 36$ , then what is the average value of a and b?  
a) 2                      b) 3                      c) 4                      d) 5
58. If  $p + q = r$ , then what is the average value of p, q and r?  
a)  $\frac{r}{3}$                       b)  $\frac{(p + q)}{3}$                       c)  $\frac{2r}{3}$                       d)  $\frac{r}{2}$
59. What is the slope of the line whose equation is  $2x - 4y = 9$ ?  
a) 1                      b)  $\frac{1}{2}$                       c) 2                      d) 3
60. Which one of the following is correct for the acute angle of right angled triangle?  
a) complementary      b) supplementary      c) adjacent              d) equal

61. There are 60 students in a class. If 60% of them are girls, then how many boys in the class?  
a) 24                      b) 36                      c) 18                      d) 40
62. Last year Hari was 4 feet tall, and this year he is 5 feet tall. What is the percent increase of his height?  
a) 10%                      b) 15%                      c) 20%                      d) 25%
63. What is the difference between  $\frac{3}{5}$  of 80 and 30% of 80?  
a) 12                      b) 18                      c) 24                      d) 20
64. The cost of 6 pens is equal to the cost of the 10 pencils. If the cost of 4 pencils is Rs. 120, then what is the cost of 4 pens?  
a) 100                      b) 200                      c) 300                      d) 400
65. If the cost of 7 kg sugar is Rs. 210, how much sugar can be purchased for Rs. 330?  
a) 11kg                      b) 12kg                      c) 13kg                      d) 14kg
66. Ganga can read 48 pages per hour. At this rate, how many pages she can read in 80 minutes?  
a) 60                      b) 72                      c) 48                      d) 64
67. Two numbers are in the ratio of 6:7 and their sum is 117, then what are these numbers?  
a) 56, 58                      b) 63, 54                      c) 54, 63                      d) 48, 56
68. If  $5:7 = 15:x$ , then what is the value of  $x$ ?  
a) 18                      b) 21                      c) 24                      d) 35
69. If cost price of 8 pens and selling price of 10 pens is equal, then what is loss percentage?  
a) 20%                      b) 15%                      c) 10%                      d) 25%
70. If the 20% discount is given on computer book costing Rs. 300, then what will be selling price?  
a) Rs. 240                      b) Rs. 220                      c) Rs. 260                      d) Rs. 250
71. A watch is bought at Rs. 250 and sold at Rs. 300, then what is the profit percentage?  
a) 10%                      b) 15%                      c) 20%                      d) 25%
72. What is the population doubling time if the population growth rate is 2% per annum?  
a) 60 yrs.                      b) 50 yrs.                      c) 40 yrs.                      d) 30 yrs.
73. What is the rate percentage per annum that a sum of money trebles itself in 25 years?  
a) 2%                      b) 4%                      c) 6%                      d) 8%
74. What is the cardinal number of a vowel set  $V = \{a, e, i, o, u\}$ ?  
a) 4                      b) 5                      c) 6                      d) 7
75. What is the minimum value of  $n(P \cap Q)$ ? When  $n(U) = 100$ ,  $n(P) = 70$ , and  $n(Q) = 45$ ?  
a) 15                      b) 55                      c) 30                      d) 45
76. Which one of the following is true for prime number?  
a) no factors                      b) only one factor                      c) only two factors                      d) more than two factors
77. Which one of the following interval notation is correct for  $\{x:5 \leq x \leq 15\}$ ?  
a)  $[5, \infty]$                       b)  $[\infty, 15]$                       c)  $[6, 14]$                       d)  $[5, 15]$
78. What is the value of 'x' when it is multiplied by 6 and added to 3 times its own number gives 63?  
a) 6                      b) 7                      c) 8                      d) 9

79. What is the value of  $(\sqrt{5} + \sqrt{5})^2$  ?  
 a) 20                                      b) 25                                      c) 10                                      d) 60
80. What is the number of seconds in  $1\frac{1}{3}$  hour?  
 a) 1200 sec                                      b) 2400 sec                                      c) 3600 sec                                      d) 4800 sec
81. In a kilometer race A beats B by 100 meters and B beats C by 150 meters. In the same race, by how many meters does A beats C?  
 a) 150 m                                      b) 100 m                                      c) 250 m                                      d) 200 m
82. The area of 4 walls of square room is  $120 \text{ m}^2$ . If the height is 5 m, then what is the area of its floor?  
 a)  $26 \text{ m}^2$                                       b)  $56 \text{ m}^2$                                       c)  $25 \text{ m}^2$                                       d)  $36 \text{ m}^2$
83. What is the probability of death?  
 a) 1                                      b)  $\frac{1}{2}$                                       c) 0                                      d)  $\infty$
84. What is the chance to give the birth by a pregnant lady on Tuesday?  
 a)  $\frac{3}{7}$                                       b)  $\frac{1}{7}$                                       c) 1                                      d)  $\frac{1}{2}$
85. If the BACHELOR is written as 12345678, then how will BCA be written?  
 a) 123                                      b) 432                                      c) 147                                      d) 132
86. Which one of the following is missing alphabet in given table?
- |   |   |   |
|---|---|---|
| T | Q | N |
| P | O | S |
| M | ? | R |
- a) L                                      b) U                                      c) S                                      d) V
87. Saru ranks 8<sup>th</sup> from the top and 20<sup>th</sup> from the bottom in class, then how many students are there in class room?  
 a) 28                                      b) 27                                      c) 20                                      d) 29
88. Find the value of 'x' in series 1, 1, 2, 3, 5, 8, 13, x?  
 a) 21                                      b) 22                                      c) 23                                      d) 20
89. How many squares in the following figure?
- |  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |
- a) 13                                      b) 14                                      c) 15                                      d) 16
90. What is the value of  $\cos 0^0$ ?  
 a)  $\frac{1}{2}$                                       b)  $\frac{1}{\sqrt{2}}$                                       c) 0                                      d) 1

**Group C [General Knowledge]**

91. When did the new constitute of Nepal "Nepal Ko Sambidhan" was released?

- a) 2072 Ashoj 4      b) 2072 Ashoj 3      c) 2072 Ashoj 2      d) 2072 Ashoj 1
92. Who is known as "Father of Computer"?
- a) Charles Babbage    b) Bill Gates            c) Mark Zuckerberg    d) John V Neumann
93. Which one of the following discipline is not awarded by noble prize?
- a) Literature            b) Economics            c) Physics                d) Computer Science
94. Which one of the following belongs to SSD?
- a) RAM                    b) ROM                    c) Cache Memory        d) Mass Storage
95. Who won the FIFA World Cup 2018 held in Russia?
- a) England                b) Croatia                c) France                 d) Germany
96. Which one of the following is not an output device?
- a) OCR                    b) Plotter                 c) Monitor                d) Printer
97. What is the scientific name of human?
- a) Rana Tigrina          b) Homosepian            c) Felis Catus            d) Rattus
98. Which one of the following is the deepest river of the Nepal?
- a) Karnali                b) Koshi                    c) Mahakali                d) Gandaki
99. Who was the first prime minister of Nepal?
- a) Janga Bahadur Rana                    b) Matrika Prasad Koirala  
c) Bhimsen Thapa                            d) Mathabar Sing Thapa
100. Who is the writer of the Nepal novel "Basain"?
- a) Lil Bahadur Kshetri                    b) Ramlal Joshi  
c) Gopal Prasad Rimal                    d) Lokendra Bahadur Chand

**Best of Luck**