

Tribhuvan University
Faculty of Humanities and Social Sciences Bachelor
of Arts in Computer Application Program (BCA).
Entrance Examination 2077
Full Marks: 100
Time: 2 hrs.

Attempt all questions:

Grammar (40 × 1 = 40)

Group: I (English)

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

1. Above Board
 - a. boasting person
 - b. honest and straightforward
 - c. a man with arrogance
 - d. a dishonest person
2. Call a spade a spade
 - a. to disrespect
 - b. to say in anger
 - c. to speak plainly
 - d. to manipulate
3. Roots and branch
 - a. entirely
 - b. step by step
 - c. part by part
 - d. bare truth
4. Broadly speaking letters may be said to
Into two categories.
 - a. belong
 - b. fall
 - c. split
 - d. convert
5. The last decade has beenfor
management, education and development.
 - a. dogmatic
 - b. paradoxical
 - c. praiseworthy
 - d. outstanding
6. Bandy words
 - a. to argue
 - b. to request
 - c. to give respect
 - d. to be polite
7. Ever and Anon
 - a. true promise
 - b. false promise
 - c. frequent
 - d. sometimes
8. The Synonym of "Spurious" is .
 - a. false
 - b. harmful
 - c. poisonous
 - d. foreign
9. Which one is appropriate synonym of "annex"
 - a. add
 - b. low
 - c. copy
 - d. initial
10. Which one is appropriate synonym of "Concert"
 - a. beauty
 - b. power
 - c. agreement
 - d. none of these
11. The antonym of "engage" is :
 - a. abstain
 - b. liberate
 - c. release
 - d. join
12. Give the antonym of "Fable"
 - a. truth
 - b. fact
 - c. reality
 - d. actuality
13. What is the antonym of "Moist"?
 - a. parched
 - b. dry
 - c. hard
 - d. crisp

Old Question For BCA Entrance Preparation

43. The set $\{X: X^2 + X + 1 = 0, X \in R\}$ is :
 a. $\{1, \sqrt{3}\}$ b. $\{-1, \sqrt{3}\}$
 c. $\{\}$ d. $\{-1, 0\}$
44. Every rational number is also
 a. natural number b. a whole number
 c. an integer number d. areal number
45. If $f(u) = \frac{u}{u-1}$, then $f(a)/f(a+1)$ is:
 a. $f(-a)$ b. $f\left(\frac{1}{a}\right)$
 c. $f(a^2)$ d. $f\left(\frac{-a}{a+1}\right)$
46. Average of even number between 20 to 100
 a. 60 b. 40
 c. 50 d. 70
47. The value of $\cot 30^\circ$ is :
 a. $\frac{1}{2}$ b. $2/\sqrt{3}$
 c. $\sqrt{3}$ d. 1
48. If $AB=C$ exists, which of the following order of matrices is possible?
 a. A_2X_3, B_3X_2, C_2X_3 b. A_3X_2, B_2X_3, C_2X_2
 c. A_3X_2, B_2X_3, C_3X_3 d. A_3X_3, B_2X_3, C_3X_3
49. The area of 4 walls of square room is $120m^2$. If the height is 5m, the area of its floor is
 a. $56m^2$ b. $36m^2$
 c. $46m^2$ d. $26m^2$
50. The value of $\begin{vmatrix} 48 & 1 & 6 \\ 32 & 5 & 4 \\ 16 & 3 & 2 \end{vmatrix}$ is:
 a. 1 b. 2
 c. 0 d. 4
51. Raman salary was decreased by 50% and subsequently increased by 50%. He has a loss of :
 A. 0% b. 25%
 c. 0.25% d. 2.5%
52. If $a = 4b$, what percent of $2a$ is $2b$?
 a. 10% b. 20%
 c. 25% d. 26%
53. What 3 percent is 250 out of 1 kg?
 a. 25% b. 35%
 c. 24% d. 30%
54. The equation of the straight line passing through (2,4) and having slope -2 is :
 a. $2x + y = 8$ b. $2x - y = 4$
 c. $x + 2y = 8$ d. $x - 2y = 4$
55. A sum reckoned at 12% SI amounts to Rs. 2409 in 4 years, the sum is :
 a. 1625 b. 1635
 c. 1640 d. 1652
56. Ram gains the cost price of 10 books by selling 50 books. His profit percentage is :
 a. Rs 30% b. 25%
 c. 20% d. 16%
57. $\cos 45^\circ =$
 a. 1 b. 0 c. $\sqrt{2}$ d. $\frac{1}{2}$
58. The cost price of 10 articles is equal to the selling price of 9 articles, the profit percent is
 a. 33.33% b. 40.5 %
 c. 45% d. 49%
59. The area of a triangular field whose three sides are 300, 400 and 500m (in m^2) is :
 a. 6000 b. 5000
 c. 400 d. 200
60. The number of bricks, each 4cm x 3cm x 2cm are required to construct a wall having the dimension 11cm x 96cm x 64cm is :
 a. 2815 b. 281600
 c. 218500 d. 2185
61. The value of $\sec 60^\circ$ is :
 a. $\frac{1}{2}$ b. $\frac{\sqrt{3}}{2}$
 c. 2 d. $\frac{1}{\sqrt{3}}$
62. The rate percentage per annum that a sum of money trebles itself in 25 years is :
 a. 25 % b. 10%
 c. 4% d. 8%
63. The percent age of mother and her daughter are 30 years and 14 years respectively. The number of years ago that the product of their age was 192 is :
 a. 5 b. 6
 c. 7 d. 9
64. If 5 is subtracted from the square of a number and the result is 20, the number is :
 a. ± 5 b. ± 6
 c. ± 7 d. ± 9
65. A rope is 40 ft. long is cut into two pieces, if one pieces, if one piece is 18 ft. longer than the other. What is the length, in feet, of the shorter piece ?
 a. 11 b. 12
 c. 13 d. 14
66. If $M = \begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix}$, $M^2 - rM - 1 = 0$, the value of r is :
 a. -2 b. -4
 c. 4 d. 2
67. The inequality $-6 \leq 2X + 5 \leq 7$ is equivalent to :
 a. $-6 \leq X \leq 1$ b. $-6 < X < 1$
 c. $-7 \leq X \leq 5$ d. $-6 \leq X \leq 1$
68. If $f(x) = 3x + 5$, then value of $\frac{f(x+h) - f(x)}{h}$ is :
 a. 2 b. 3
 c. 4 d. 5
69. The difference of two irrational number is :
 a. always an irrational number
 b. always a rational number
 c. always a real number
 d. All of above
70. If $p+q+r = 4$ and $p+q+r = 8$, the value of $p+q =$
 a. 2 b. 4
 c. 6 d. 8

71. If $\frac{a}{4} = \frac{b}{5} = \frac{c}{9}$ then, $\frac{a+b+c}{c}$ is :
 a. 4 b. 2
 c. 7 d. none
72. If 60% of 450 = 15x, the value of x is :
 a. 6 b. 18
 c. 36 d. 72
73. The system of equation $-4x+6y+2z=8$ and $2x-3y-z=-14$ have :
 a. unique solution b. no solution
 c. infinity many solutions d. none of these
74. The area of rectangle field is $493m^2$ and its perimeter is 92 meter. The length and breadth(in m) are :
 a. 7,4 b. 9,7
 c. 29,17 d. 19,13
75. While solving the value of x is $x^3 - 3x^2 + 3x - 1 = 0$.
 a. 2 b. 1
 c. both d. none
76. The side of triangle are 3cm, 4cm and 5cm. it is :
 a. a right angle triangle
 b. an isosceles triangle
 c. an equilateral triangle
 d. none of these
77. Which of the following represents all solutions of the inequality $x^2 < 2x$?
 a. $-1 < x < 1$ b. $1 < x < 3$
 c. $0 < x < 2$ d. $4 < x < 6$
78. If the term $2x$, $x+10$ and $3x+2$ be in AP, the value of x is
 a. 7 b. 10
 c. 6 d. 5
79. If $t_n = 3n - 2$, the value of S_5 is :
 a. 35 b. 40
 c. 45 d. 50
80. If $S_n = 1 + 2 + 3 + \dots + n = 20$ the sum of the series $S_n = 1^3 + 2^3 + 3^3 + \dots + n^3$ is :
 a. 400 b. 500
 c. 450 d. 1000
81. While selling a pen for Rs. 50, there is a loss of 5%, for what price should it be sold to gain 5%?
 a. 55.26 b. 52.63
 c. 55 d. 56.32
82. A man sold 250 chairs and had gain equal to the selling price of 50 chairs. His profit percent is:
 a. 5% b. 10%
 c. 25% d. 50%
83. A watch is bought at Rs. 250 and sold at Rs. 300, the gain percent is :
 a. 25% b. 20%
 c. 50% d. none
84. The list of price of an article is 25% above the selling price and cost price is 40% below the list price, then rate of discount is :
 a. 15 % b. 20%

- c. 25% d. 40%
85. If $A = \begin{pmatrix} n & 0 \\ 0 & 1 \end{pmatrix}$ and A^2 is identity matrix, the value of n is :
 a. 1 b. 2
 c. 0 d. 3
86. If $A = \begin{pmatrix} 1 & 2 \\ 3 & -4 \end{pmatrix}$, $Q = \begin{pmatrix} x & 3 \\ 2 & -1 \end{pmatrix}$, determinant of $2p-3q$ is -5, the value of x is equal to :
 a. $-\frac{1}{2}$ b. $\frac{1}{2}$
 c. $-\frac{1}{3}$ d. $-\frac{1}{4}$
87. The simple interest on Rs. 1250 for 5 years at 8% p.a is :
 a. 480 b. 1000
 c. 500 d. 625
88. If a sum of money doubles itself in 8 years at simple interest, the rate percent per annum is :
 a. 10. 5% b. 11. 5%
 c. 12. 5% d. 13. 5%
89. If two numbers are in the ratio 5:7 and their least common multiple is 315, their product is :
 a. 2385 b. 2538
 c. 2358 d. 2835
90. If $0.75:x::5:8$, then x is equal to...
 a. 1.12 b. 1,2
 c. 1.25 d. 1.30
- A container contains 40l of milk from this container 4l of milk taken out and replaced by water. This process was repeated further two times. How much milk is now contained by the container?
 a. 26.34l b. 27.36l
 c. 28l d. 29.16l

Section: IV General Awareness (25 × 1 = 25)

91. The famous Halesi mahadev temple is situated in :
 a. Taplejung b. Khotang
 c. Sarlahi d. Morang
92. The oldest flag in the world is of :
 a. Italy b. Russia
 c. Denmark d. China
93. The Guitar was firstly introduced from :
 a. Spain b. Germany
 c. France d. America
94. In Computer abbreviation of AI usually means?
 a. Art info
 b. Artificial Intelligence?
 c. Artificial interest
 d. artificial internet
95. Who is the current vice chancellor of the Tribhuvan University?
 a. Dilli Pd. Sapkota
 b. Shivalai Bhusal

Old Question For BCA Entrance Preparation

- c. Ram pd. Khatiwada
- d. Tirtha Khaniya
- 96. The national game of Bhutan is :
 - a. Cricket
 - b. Archery
 - c. Bull fighting
 - d. Football
- 97. The CEO of Apple is :
 - a. Satya Nadela
 - b. Tim Cook
 - c. Warren Buffet
 - d. Sundar Pichai
- 98. What is the capital of Brazil?
 - a. Brasilia
 - b. Rio the janeiro
 - c. Sao paulo
 - d. Salvador
- 99. Who is the Captain of Nepal's National National Football team?
 - a. Anil Gurung
 - b. Bimal Gharti Magar
 - c. Bharat Khawas
 - d. Kiran Chemjong
- 100. Which country is known as the 'Gift of Nile'
 - a. Iraq
 - b. Iran
 - c. Egypt
 - d. Italy