

Tribhuvan University
Faculty of Humanities and Social Sciences Bachelor
of Arts in Computer Application Program (BCA)
Entrance Examination 2078

Full Marks: 100

Time: 2 hrs.

Attempt all questions:

Group: I (English)

Grammar (40 × 1 = 40)

Circle the correct answer from among the given option (Multiple choice questions)

1. I'm really looking forward to.....my new course.
a. start b. starting
c. started d. to start
2. 'We had a new teacher today called Mary'. What was she.....?
a. liked b. look like
c. like d. as
3. 'Can you..... the time of the next train to London? 'O.K. I'll phone the station.'
a. put away b. find out
c. put out d. clear up
4. Martha has been watching television ,and
a. Ralph has too b. Ralph hasn't either
c. so does Ralph d. neither has Ralph
5. If you are "up front", you are
a. bold b. sincere
c. brave d. strong
6. "Under wraps" means.....
a. in secret b. with difficulty
c. in a small space d. to get appoint
7. An Englishman's home is his.....
a. church b. house
c. outdoors d. castle
8. "False friends are.....
a. as clear as day b. out of mind
c. better than riches
d. worse than open enemies
9. It was Music I have ever heard.
a. more beautiful b. less beautiful
c. the most beautiful d. most beautiful
10. They managed to..... All their unwanted things at the jumble sale.
a. get rid of b. get even with
c. get away with d. get over to
11. Select the correct antonym for 'injustice'.
a. appreciation b. fairness
c. cohesion d. co-ordination

Old Question For BCA Entrance Preparation

Fill in the gap with the correct word from among the given options.

12. The prices of consumer's goodsincreasing now.
a. Are b. is
c. were d. has been
13. Please Enclosed our current catalogue and price list
a. find b. look
c. receive d. examine
14. The word 'Beautiful' has its principal stress on thesyllable.
a. 1st b.2nd
c.3rd d.4th
15. Which of the following word does not have a suffix?
a. painful b. goodness
c. fearless d. courage
16. Which of the following word in an adverb?
a. good b. painful
c. well d. bad
17. Rosemary.....three languages.
a. speaks b. talks
c. tells d. know
18. Your English is really improving but mine.....
a. haven't b. don't
c. isn't d. doesn't
19. Mike is beside Pat. Pat isMike.
a. behind b. between
c. beside d. in front of
20. His office is the second floor of the building.
a. at b.in
c. of d. on
21. you have a good holiday last year?
a. Do b. Does
c. Did d. Are
22. I left college three years.....
a. nothing b. ago
c. for d. in
23. Their son..... In this hospital.
a. works b. begins
c. starts d. likes
24. Will you off the photocopier?
a.to turn b. turning
c. turned d. turn
25. He began to realize that hea mistake.
a. is making b. has made

- c. had made d. will make

Supply the correct tag for the following statement.

26. Let us go,.....
a. Shall we? b. will you?
c. do we? d. don't we?
27. Neither of thema problem.
a. anticipate b. anticipates
c. have anticipated d. are anticipating

Choose the correct passive voice for the following sentence.

28. We celebrate Democracy Day on Falgun seven
a. Democracy Day is celebrated on Falgun seven by us
b. Democracy Day was celebrated on Falgunseven by us
c. Democracy Day has been celebrated on Falgun seven by us.
d. Democracy Day had been celebrated on Falgun seven by us.
29. She is..... obedient student.
a.an b. a
c. the d. none of the above
30. The opposite meaning of 'accepted' is,
a. liked b. noted
c. provided d. rejected
31. Choose the word nearest in meaning to 'copy'
a. Imitate b. Deny
c. Discuss d. Reject

Which is the correct indirect speech for the direct speech given below?

32. 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.
33. A government controlled by the rich is:
a. oligarchy b. democracy
c. plutocracy d. aristocracy
34. We must be earlywe won't get a seat
a. otherwise b. yet
c. however d. but
35. Badminton is played on a court whereas boxing in a.....
a. court b. track
c. arena d. ring

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

Television acts as a narcotics on children-mesmerizing them, stunting their ability to think, and displacing such wholesome activities as book reading and family discussions. Right?

Wrong, says researchers Daniel Anderson, a psychologist at the University of Massachusetts at Amherst. Anderson doesn't have any particular affection for Garfield and friend, MTV clips, or Gilligan's Island returns. But he does believe it's important to distinguish television's impact on Children from influences of the family and the wider culture. We tend to blame TV, he says, for problem it doesn't really cause. In the process, we overlook our own roles in shaping children's minds. One conventional belief about television is that it impairs a child's ability to think and to interpret the world. But Anderson's own research and reviews of the scientific literature discredit this assumption. While watching TV, children do not merely absorb words and images. Instead they muse upon the meaning of what they see, its plausibility, and its implications for the future-whether they've tuned in to a news report of a natural disaster or an action show. Because television relies on such cinematic techniques as montage and crosscutting, children learn early how to draw inference about the passage of time, character psychology, and implied events. Even preschoolers comprehend more than just the information supplied on the tube.

36. According to Anderson, television act as
 - a. A narcotics on children
 - b. A change agent in the society
 - c. A means of book reading
 - d. An agent in shaping children's mind
37. TV I mpairs a child's ability to think and interpret the world
 - a. Of the post-modern researchers.
 - b. Of the conventional critics.
 - c. Of Anderson.
 - d. Of recent researchers and reviewers.
38. While watching TV, children are more concerned with.....
 - a. words
 - b. image
 - c. meaning
 - d. word and images
39. TV depends on

- a. cinematic techniques
- b. rapid reading
- c. natural disaster
- d. news reports

40. TV develops Power of children.
 - a. inferencing
 - b. drawing
 - c. reading
 - d. thinking

Group B [Mathematics]

41. If A and B are two subset of a universal set U. State the condition for $n(A \cup B) = n(A) + n(B)$
 - a. If A and B are disjoint
 - b. If A and B are intersecting
 - c. $A \subset B$
 - d. $A \supset B$
42. If $n(U) = 120, n(A) = 55, n(B) = 75, n(A \cup B) = 100$ then $n(A \cap B) = ?$
 - a. 25
 - b. 30
 - c. 90
 - d. 20
43. The cost of an electric item is Rs. 4,250. How much should a customer pay for it with 13% VAT?
 - a. 5520.50
 - b. 525.5
 - c. 4802.5
 - d. 3697.5
44. If US \$1 = NPR 115 convert NPR. 67275 dollar
 - a. 585
 - b. 580
 - c. 590
 - d. 600
45. If $f(x) = 2x$ & $g(x) = x + 1$ then $f \circ g(2)$
 - a. 4
 - b. 6
 - c. 8
 - d. 10
46. A man earn Rs.720 a month. If he spends 80% of it in each month, how much he will save in a year
 - a. Rs. 1528
 - b. Rs. 1628
 - c. Rs. 1728
 - d. Rs. 1828
47. If a selling price of 12 cycle is equal to cost price of 15 cycles. find gain %
 - a. 20%
 - b. 25%
 - c. 30%
 - d. 15%
48. Circumference of a circle whose area is equal to half that of rectangle 44cm by 28 cm is,
 - a. 84 cm
 - b. 86 cm
 - c. 88 cm
 - d. 90 cm
49. If a tank with capacity 96m³ have base are 24m² then its height is equal to the
 - a. 1m
 - b. 2m
 - c. 3m
 - d. 4m
50. If 154000cm³ of water is taken out from a cylindrical well of diameter 3.5m, then decrease in height in cm is equal to ,
 - a. 8/3cm
 - b. 8/5cm
 - c. 8/7 cm
 - d. 1cm

Old Question For BCA Entrance Preparation

51. If a surface area of a hemisphere is $32\pi m^2$ then its radius is equal to
a. $3m$ b. $4m$
c. $5m$ d. $6m$
52. Two number are in the ratio 2:5 and their sum is 35 then the smaller number is
a. 10 b. 12
c. 14 d. 16
53. The numerical value of $(343)^{-\frac{2}{3}}$ is equal to
a. $1/49$ b. $1/7$
c. $1/25$ d. $1/29$
54. If $32x + 1 = 92x - 1$ then the value of x is equal to
a. $1/2$ b. $3/2$
c. $5/2$ d. 1
55. In a single throw of a dice, find the probability of getting a number divisible by 3 is
a. $1/2$ b. $1/3$
c. $1/4$ d. $2/3$
56. One ticket is drawn at random from a bag containing 15 tickets numbered from 1 to 15. find the probability that the ticket contains a number which is multiple of 3
a. $\frac{1}{3}$ b. 3 c. 4 d. 5
57. In a three -dimensional space the three axes divide the space into
a. 4 parts b. 6 parts
c. 8 parts d. 3 parts
58. Half of the product of diagonals indicates the area of
a. parallelogram b. rectangular
c. square d. rhombus
59. A parallelogram having it's area $24cm^2$ and base $6cm$ then it's height is equal to ,
a. $2cm$ b. $3cm$
c. $4cm$ d. $6cm$
60. If the area of triangle $56sq.cm$ and the altitude $8cm$ then the base is ,
a. $7cm$ b. $8cm$
c. $14cm$ d. $28cm$
61. If $A = \begin{bmatrix} 3 & 2 \\ 4 & 3 \end{bmatrix}$, then the inverse of A is equal to
a. $\begin{bmatrix} 3 & -2 \\ -4 & 3 \end{bmatrix}$ b. $\begin{bmatrix} -3 & 2 \\ 4 & -3 \end{bmatrix}$
c. $\begin{bmatrix} -3 & 2 \\ -4 & 3 \end{bmatrix}$ d. $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$
62. If $|A|=0$, then A is called
a. singular matrix b. zero matrix
c. non-singular matrix d. identify matrix
63. The famous mathematicians associated with finding the sum of the natural number is,
a. Pythagoras b. newton
c. Gauss d. Euclid
64. Sum of the series $1 + 1/2 + 1/2^2 + 1/2^3 + \dots$
a. 1 b. 2
c. 1.555 d. 1.7555
65. The A.M. between x-3 & x+5 is ,
a. $2x+2$ b. $x-1$
c. $x+1$ d. $2x+1$
66. The value of $\sin 75^\circ$ is
a. $\frac{\sqrt{3}+1}{2\sqrt{2}}$ b. $\frac{\sqrt{3}-1}{2\sqrt{2}}$
c. $\frac{\sqrt{3}+2}{2\sqrt{2}}$ d. $\frac{\sqrt{3}+1}{\sqrt{2}}$
67. The mean of the data 4,6,8,10,12,14 is
a. 7 b. 8
c. 9 d. 10
68. The angle between two straight line $2x - 3y + 1 = 0$ & $3x + 2y - 2 = 0$ is
a. 45° b. 60°
c. 75° d. 90°
69. The value of $\lim_{x \rightarrow a} \frac{\sin(x-a)}{x-a}$ is
a. 0 b. 1 c. -1 d. $1/2$
70. The derivatives of $\tan x$ is
a. $\sec 2x$ b. $\sec x$
c. $\sec x \tan x$ d. $\cot$
71. The limit value of $\lim_{x \rightarrow a} \frac{x^2-9}{x-3}$ is
a. 9 b. 0
c. 6 d. 1
72. Reflection of a point (-1,2) about the line $y=x$ is
a. (1,2) b. (2,1)
c. (-2,1) d. (2,-1)
73. The value of $(i)^{101}$ is
a. I b. -1
c. 1 d. -i
74. The number of subset of a set containing n element is
a. $22n$ b. $2n$
c. $2n$ d. n^2
75. If $A = 600$ value of $\sin 3A$ is
a. $1/2$ b. 0
c. $-1/2$ d. $3/2$
76. If equation of circle is $x^2 + y^2 - 4x + 2y - 11 = 0$, then it's center is
a. (-4,2) b. (-2,1)
c. (2,-1) d. (2,1)

Old Question For BCA Entrance Preparation

77. If an equilateral triangle has side length a then it's area is
 a. $\frac{\sqrt{3}}{2} a^2$ b. $\frac{\sqrt{3}}{4} a^2$
 c. $\frac{3}{4} a^2$ d. $\frac{1}{4} a^2$
78. Exterior angle of a regular hexagon is
 a. 45° b. 60°
 c. 75° d. 30°
79. If an angle is 270° then it's value in grade system is
 a. 100g b. 200g
 c. 300g d. 400g
80. A man looks at the top of the tree which is at a distance of 1000m and makes angle of 45° then height of the tree is
 a. 100m b. 75m
 c. 50m d. 40m
81. If $\sin\theta - \cos\theta = 0$ then the value of θ is,
 a. 00 b. 900
 c. 600 d. 450
82. If $x > 0$ then $|x|$ is equal to
 a. $-x$ b. x
 c. 0 d. 1
83. The range of the function $f(x) = \frac{x}{|x|}$ is
 a. $\{1\}$ b. $\{1, -1\}$
 c. $\{0\}$ d. $\{-\infty, \infty\}$
84. For set A , $(A_2)^2$ is
 a. $U - A$ b. A_2
 c. A d. U_2
85. Geometric mean between two number 4 and 6 is
 a. 6 b. 8
 c. 10 d. 12
86. The 6th term of the series 3, 9, 27, ... is
 a. 81 b. 243
 c. 729 d. 2187
87. For some integers n which of the following is odd integer
 a. n b. $n+1$
 c. $2n$ d. $2n+1$
88. The centroid of a triangle is a point where
 a. the perpendicular from vertex to opposite sides meet
 b. medians meet
 c. bisectors of each angle meet
 d. perpendicular bisectors of each sides meet
89. The set $A = \{x: x \in N \text{ \& } x^2 + 3x + 2 = 0\}$ is
 a. Null set b. Finite set

- c. Infinite set d. set with two elements
90. The H.C.F of the algebraic expressions $a_2 - b_2$ & $a_2 + 2ab + b_2$ is
 a. $a+b$ b. $(a + b_2(a - b))$
 c. $a-b$ d. $a_2 - b_2$

Group C [General Knowledge]

91. What is the full form of pdf ?
 a. portable document format
 b. permanent document formats
 c. partial document format
 d. partial document formation
92. Which is not part of CPU?
 a. memory b. Processor
 c. keyboard d. arithmetic logic unit
93. Which is the earliest counting and calculating device for making calculation?
 a. Napier's Bone b. Abacus
 c. Slide rule d. Difference Engines
94. When did Nepalese government published new map including Limiyadura, Kalapani and lipulekh?
 a. 2077 Jestha 5 b. 2077 Jestha 01
 c. 2077 Ashad 7 d. 2077 jestha 9
95. What is the recent height of mt. Everest ?
 a. 8848.86m b. 8848.05m
 c. 8848m d. 8850m
96. Who is the author of karnali Blues?
 a. Amar neupane b. Buddhi sagar
 c. parijat d. Laxmi Prasad devkota
97. Who is the present education minister of Nepal?
 a. Narayan khadka b. Prem Ale
 c. Devendra paudel d. Bal Krishna khadka
98. What is the scientific name of frog?
 a. Serpentes b. Cercopithecidae
 c. Anura d. Homo Sapiens
99. The famous Mukthinath Temple is situated in
 a. Tanahun b. Makwanpur
 c. Mustang d. Gorkha
100. The longest river in the world is ,
 a. Nile b. Ganga
 c. Amazon d. Indus