Oid	Question For BCA Entrance Preparation	ı	
	Tribhuvan University		c. occurring once a week
	Faculty of Humanities and Social Sciences		d. occurring seldom
	Bachelor of Arts in Computer Application	16.	The antonym of "on" is:
	Program (BCA)		a. of b. un c. off d. out
	Entrance Examination 2074	17.	he was very popular among common
	Full Marks: 100		people, he could not win the election.
	Time: 2 hrs.		a. Because b. So
A ++ /			c. Although d. Therefore
Atte	empt all questions:	18.	The indirect speech of "Are you sure? She said
	Grammar $(40 \times 1 = 40)$		to me", is:
1.	She is very good swimming.		a. She asked me if I was sure.
	a. at b. on c. of d. for		b. She wanted to know was I sure.
2.	Ravi will have arrived home8 pm		c. She inquired if I am sure.
	tomorrow.		d. She asked him if I was sure.
	a. in b. at c. by d. on 3.	19.	In the night bus yesterday, I had my purse
3.	Rita is honest and diligent student.		
	a. a b. an c. this d. no article		a. steal b. stole
4.	The passive version of "Who did it?" is:		c. stolen d. to steal
	a. Who was it done?	20.	I am looking forward to You very
	b. Who was it done by?		soon again.
	c. Who was done it?		a. see b. seen
	d. Who had it done by ?		c. seeing d. be seen
5.	We had to stop the entrance for the security	21	I bought this pen form thestore.
	check.		a. stationery b. stationary
	a. in b. on c. at d. for		c. stationary d. stantianory
6.	Using a cleaner is the best way for	22	This bed is not for two people to sleep
	avoiding the dust pollution.	22.	in.
	a. vaccum b. vacume		a. as wide as b. wide enough
	c. vacuume d. vacuume		c. wider enough d. quite wider
7.	The plural form of "ox" is:	20	The fault in the engine is this time
	a. oxen b. oxes	-3.	than it was the last time.
	c. oxez d. none		a. More serious b. serious
8.	The feminine form of deer is:		c. very serious d. serious than
	a. deeress b. doe	24	You will find the photograph of mine
	c. stag d. none	-4.	a. at b. on c. of d. with
9.	If I had known about your arrival, I to	25	Reeta can dance of all in this class.
	receive you at the airport.	25.	a. The best b. better
	a. would come b. would came		a. The best b. better c. best d. more better
	c. would have come d. had come	26	Hurry up and use the fire the house is
10.	At midnight, all the goats were	20.	on fire.
	a. bleating b. howling c. roaring d. mowing		a. extinctor b. extinguisher
			c. extinguishing d. extinguish
11.	The question tag of "They have already arrived,"	27	The tag question of "I am an engineer." is:
	is	-/-	a. Aren't I? b. am not I?
	a. Have they? b. Haven't they?		c. Don't I? d. Am not I?
	c. Weren't they? d. Did they?	28	I am in a state of dilemma. That means I am
12.	Please the cigarette. It irritates me.	20.	
	a. put down b. put out		a. dazzled b. tired
	c. put away d. put in		c. puzzled d. not sure
13.	As Gretel's father could not do anything, he	20	She undergoes a strange experience of seeing
	gave	29.	something not present in front of her. In other
	a. away b. out		words, she is suffering from
	c. in d. into		a. hallucination b. bronchitis
14.	I have eaten nothing for hours. I am		c. tonsillitis d. psychosis
	hungry.		1 7
	a. quiet b. quit	30.	She can play tennis, but she is at it than
	c. quite d. quit		her friend.
15.	The synonym of recurring is:		a. badly b. worse
-	a. occurring repeatedly		c. more badly d. worsely
	b. happening rarely		· ·
	II U V	•	

Ola	Question For BCA Entrance Preparation		
31.	Sulav sold his plot of land in the village so that		a. 5 b. 12 c. 35 d. 7
	he buy a new house in the city.	50.	If the equation are $3x + 4y = 7$ and $4x - y =$
	a. could b. can		3 after solving these equations the value of
	c. need d. would		and y will be:
32.	If you teased the dog. It bite you.		a. 1,1 b. 1,2 c. 2,1 d. 2,2
	a. will b. would	51.	What is the value of x in series 1, 9, 25, x, 81
	c. did d. can		121?
33.	She is so that she easily catches cold.		a. 100 b. 36 c. 49 d. 64
	a. sincere b. sensitive	52.	If $a + b = c$, then what is the average value of a
	c. sensible d. sober		b and c?
34.	The synonym of purgatory is:		a. $\frac{(a+b)}{3}$ b. $\frac{c}{3}$ c. $\frac{2c}{3}$ d. $\frac{c}{3}$
	a. Polluted city b. hell		
	c. ricaven a. sky	53.	If x in an integer and $y = -2x - 8$, what is the least value of x for which y is less than 9?
35.	The synonym of creek is:		a8 b9 c10 d11
	a. pond b. late	- 4	The slope of line which equation is $2x - 4y =$
	c. rivulet d. tributary	54.	9is:
36.	No sooner had I left the room, the bomb		
	exploded.		a. 2 b. 1/2 c1/2 d. 3 What is the slope of horizontal line?
	a. had b. could be	55.	a. >1 b. < 0 c. 0 d. 1
	c. would be d. none of the above	-6	The difference between 3/5 of 80 and 30% o
37.	Sarita plays chessthan her sister.	50.	80 is:
	a. More better b. better		_
	c. well d. best		a. 20 b. 14 c. 15 d. 24 Gautam spent Rs. 40/-, which is 5% of his daily
38.	I am looking forward toyou soon.	5/•	wage, then his total daily wage is:
	a. seeing b. see		
	c. be seen d. seen		a. Rs.400/- c. Rs.800/- d. Rs. 1000/-
39.	Because of the heavy rain they decided to call	-0	If 1254376 represents the CENTURY, then wha
	The cricket match.	50.	represents 735?
	a. out b. up c. off d. down		a. NUT b. RUT
40.	Cholera broke in Jajarkot ten years ago.		c. RUN d. YET
-	a. out b. down c. up d. into		[2 7 6]
	•	50	Find the missing value in $\begin{bmatrix} 2 & 7 & 6 \\ 9 & 5 & 1 \end{bmatrix}$.
	Mathematics $(50 \times 1 = 50)$	39.	Third the imissing value in [5 3 1].
41.	Which one of the following number has a		a. 5 b. 8 c. 7 d. 9
	remainder of 4 when it is divided by 6?	60.	There are 48 students in a computer class. I
	a. 8 b. 12 c. 22 d. 29		number of boys are twice than girls, then how
42.	The sum of the product and quotient of 4 and 4		many girls are there?
	is		a. 16 b. 18 c. 32 d. 28
	a. 16 b. 15 c. 8 d. 17	61.	Find the number x, which is equal to (80% of x
43.	The average of all even numbers between -4 and		plus 5.
	5 is		a. 20 b. 30 c. 40 d. 25
	a. 1 b. 0.5 c1 d. none of these	62.	If the ratio of two numbers is 2:3 and sum o
44.	The sum of first five prime numbers is:		these numbers is 30, then which are these
	a. 11 b. 18 c. 26 d. 28		numbers?
45.	The value of $\sum_{n=10}^{10} (-1)^n$ is:		a. 14, 16 b. 10, 20
	a. 1 b1 c. 10 d. 0		c. 12, 18 d. 18, 12
46.	The product of two consecutive even number is	63.	If the age of five girls are 15, 16, 17, 18, 19
	224. Then the numbers are:		respectively then what is the average age o
	a. 16, 18 b. 12, 14		girls?
	c. 14, 16 d. 18, 20		a. 15 b. 17 c. 18 d. 19
47.	If 5 is added to the square of a number, then the	64.	How many triangles in this figure?
	result is 14. What is the value of that number?	-	^
	a. 3 b. 5 c. 7 d. 9		
48.	If three spoons equals to one glass, two glasses		
	equals to one plate, then how many spoons		X
	equals to one plate?		
	a. 3 b. 6 c. 9 d. 2		
49.	If a matrix is of order 5 X 7, then each column		0.6 b.7 0.9 d.0
.,	will containelements.		a. 6 b. 7 c. 8 d. 9

```
65. What is the value of \cos 60^{\circ}?
                                                                                                  84. If log_a 81 = 4, then the value of 'a' is:
                                                                                                                                                c. 5 d. none of these
a. 4 b. 3
                                                                                                  85. The value of \frac{\sqrt{18}}{\sqrt{72}} is:
       a. 21 b. 22 c. 19 d. 23
                                                                                                          a. a rational number
67. If 'n' is an integer, which of the following must
                                                                                                          b. an irrational number
       be even?
                                                                                                          c. an imaginary number
       a. n + 1
                              b. n + 2 c. 2n + 1 d. 2n
                                                                                                          d. none of these
68. The largest prime factor of 255 is:
                                                                                                  86. If 5/7 of a number is 1025, then 3/7 of number
                              b. 25
69. The sum of first n natural number is:
                                                                                                          a. 735
                                                                                                                      b. 430 c. 615 d. 560
                                                                                                  87. The number of seconds in 1\frac{1}{3} hours is:
a. 4800 b. 4700 c. 4900 d. 5000
       a.\frac{n(n+1)}{2}
                                             b. \frac{n(n+1)(2n+1)}{2}
       c. \frac{(n+1)^2}{2}
                                             d. none of these
                                                                                                  88. The 4m wide carpet is used for carpeting a room
70. The root of the equation 3x^2 - 8x + 16 = 0
                                                                                                          of 8m long and 3m wide, then what is the length
                                                                                                          of carpet?
       a. real & equal
                                                                                                          a. 5m
                                                                                                                                 b. 6m
                                                                                                                                                c. 2m
                                                                                                                                                                d. 3m
       b. real & unequal
                                                                                                  89. Hari ranks seventh from the top and twenty
       c. imaginary & unequal
                                                                                                          sixth from the bottom in a class. Then the total
       d. none of these
                                                                                                          number of students in a class are:
                                                                                                                                 b. 35
                                                                                                                                                c. 31
                                                                                                                                                                d. 32
71. If x + y = 12 and x - y = 6 then, the value of x^2 - y = 6
                                                                                                  90. If three girls write 3 pages in 3 minutes, in how
       v^2 is:
                                                                                                          many minutes can one girl write one page?
       a. 18
                              b. 36
                                         c. 60
                                                                                                                                b. 5 min c. 3 min d. 6 min
                                                                                                          a. 4 min
72. If x - 5 = 2, then the value of x + 12 is:
       a. 15 b. 17 c. 19
                                                                                                                    General Knowledge (10 \times 1 = 10)
73. The value when simplified \frac{6^4-6^3}{5} is:
                                                                                                  91. Nepal was hit by the 7.8 magnitude Earthquake
       a. 1/5 b. 6^3 c. 6/5
74. If 4/a + 4/a + 4/a + 4/a = 16 then, 4a is:
                                                                                                          a. 2072 Baisakh 10
                                                                                                                                                b. 2072 Baisakh 11
                                                                                                          c. 2072 Baisakh 12
                                                                                                                                                d. 2072 Baisakh 13
       a. 4 b. 8 c. 12
75. The slope of line \frac{x}{a} + \frac{y}{b} = 1 is:

a. -\left(\frac{a}{b}\right) b. -\left(\frac{b}{a}\right) c. ab d. -\left(\frac{1}{ab}\right)
                                                                                                  92. The new constitution of Nepal, "Nepal Ko
                                                                                                          Sambidhan" was released on:
                                                                                                          a. 2072 Asoi 4
                                                                                                                                                b. 2072 Asoi 3
76. If x = 4y, what percent of 2x is 2y?
                                                                                                          c. 2072 Asoi 2
                                                                                                                                                d. 2072 Asoj 1
                                                                                                  93. Who is the writer of Novel Ek Chihan?
                             b. 40%
                                                 c. 30% d. 25%
77. If the cost of 9 kg sugar is Rs. 270/-, how much
                                                                                                          a. Hridaychandra Singh Pradhan
       sugar can be purchased for Rs. 390/-?

    Krishnachandra Singh Pradhan

                                                                                                          c. Bijay Bahadur Malla
                              b. 12
                                             c. 13
78. If 3 bananas cost 50 cents, how many bananas
                                                                                                          d. Parijat
       can be bought for 20 dollars?
                                                                                                  94. Kusti is played on:
                                                                                                          a. Ground
                                                                                                                                                b. Court
                              b. 115
                                             c. 110
                                                             d. 130
79. If 5:7 = 15:x, then the value of x is:
                                                                                                          c. Ring
                                                                                                                                                 d. Akhada
                                                                                                  95. Who is considered as the father of computer?
                            b. 21
                                             c. 27
                                                             d. 18
80. By selling 150 apples, the seller gains the selling
                                                                                                          a. Charles Babbage
                                                                                                                                                b. Bill Gates
       price of 30 apples, then gain percentage is:
                                                                                                          c. Mark Zuckerberg
                                                                                                                                                d. Chris Hughes
                                                                                                  96. Which one of the following is the database
                             b. 30% c. 12%
81. A vendor purchases lemons at Rs. 5/- per
                                                                                                          program?
                                                                                                          a. MySQL
                                                                                                                                                b. MS-Excel
       lemon, at what price vendor will sell lemon to
       gain 20% profit?
                                                                                                          c. MS-Word
                                                                                                                                                d. MS-Outlook
                                                                                                  97. What is the full form of LCD?
       a. Rs. 4/-
                                             b. Rs. 5/-
       c. Rs. 6/-
                                             d. Rs. 7/-
                                                                                                          a. Light and Clear Display
82. What is the population doubling time if
                                                                                                          b. Liquid Cristal Display
       population growth rate is 2% per annum?
                                                                                                          c. Light Cristal Display
                                                                                                          d. Liquid Clear Display
                                             b. 30yrs
       a. 50yrs
                                             d. none of these
       c. 40yrs
                                                                                                  98. Which is the first bank in Nepal?
83. The cardinal number of a vowel set V = \{a, e, i, e, i,
                                                                                                          a. Nepal Bank Limited
       o, u) is:
                                                                                                          b. Rastriya Banijya Bank
                              b. 5
                                             c. 6
                                                             d. 7
       a. 4
                                                                                                          c. Nepal Investment Bank
```

- d. Nepal Rastra Bank
- 99. Which of the following field is not awarded by Noble Prize?
 - a. Computer Science b. Physics
 - c. Economics d. Literature
- 100. How many provinces (Pradesh) are in Nepal according to the new constitution?
 - b. 7 c. 8 d. 9 a. 5

Tribhuvan University

Faculty of Humanities and Social Sciences Bachelor of Arts in Computer Application Program (BCA)

Entrance Examination 2075

Full Marks: 100 Time: 2 hrs.

Attempt all questions:

Grammar $(40 \times 1 = 40)$

Circle the correct answer from among the given

- The danger of volcanoes not to be taken 1. lightly. b. might
 - a. Must
 - c. has d. have
- Ramesh here for the last seven years. a. Worked b. is working
 - c. Has worked d. works

Supply the correct tag for the following statement.

- Let us go,
 - a. Shall we? b. Will we? c. Do we? d. Don't we?
- Two ladies had hand bags stolen at the Kathmandu Mall.
 - a. itsb. her c. their d. they
- They are as lucky as
 - a. we b. our c. ourselves d. us
- their promise. 6. Sincere people abide b. of c. at d. on
- The new manager will his position on August 7. 30
 - a. take off b. take out
 - c. take over d. take after

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
- There is someone in the room 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

Choose the correct passive voice for the following sentence.

- 11. 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.

Old Question For BCA Entrance Preparation			
12. She is obedient student.	a. quite b. quit c. quiet d. quitter		
a. an b. a	26. Which of the following words needs		
c. the d. none of the above.	capitalization?		
Choose the correct answer from among the	a. Winter b. ocean		
given options.	c. jewish d. university		
13. I don't think I be able to go.	Choose the correct preposition from among		
a. will b. should	the given options.		
c. can d. could	27. He is occurred cheating.		
c. can d. could	,		
Change the connect single would for the group			
Choose the correct single word for the group	Select the correct alternative to fill in the gap		
of words given below.	in the following sentence.		
14. That which cannot be divided.	28. He is coming here six o'clock.		
a. Indelible b. indivisible	a. upon b. on c. at d. to		
c. Insoluble d. indefensible	Select the correct meaning of the idiom in,		
15. Which of the following words is an abstract	29. In the good book of		
noun?	a. enjoying a pleasant moment.		
a. Desk b. fear c. class d. needle	b. enjoying a favour of someone.		
16. Which of the following words does not have a	c. possessing a good book for reading.		
suffix?	d. purchasing a good book.		
a. Helpless b. goodness	Fill in the gap in the following sentence from		
c. Fearless d. courage	among the given options.		
17. The opposite meaning of 'accepted' is,	30. I am tired to go any further.		
a. Liked b. noted	a. a. to b. too c. so d. not		
c. Provided d. rejected	Which is the correct indirect speech for the		
18. Choose the word nearest in meaning to	direct speech given below?		
'emulate'.	31. Hari says, "I am very happy".		
a. Imitate b. Deny	a. Hari says he is very happy.		
c. Discuss d. Reject	b. Hari says he was very happy.		
Choose the correct synonym for the	c. Hari said he is very happy.		
underlined word in the following sentence.	d. Hari said he was very happy.		
19. Raman is a versatile boy.	32. Select the interrogative sentence from the given		
a. Bad b. clumsy c. gifted d. lazy	options below.		
20. Select the correct antonym for 'segregation'.	a. Shall I see you tomorrow?		
a. Appreciation b. integration	b. He has studied English for a long time.		
c. Cohesion d. co-ordination	c. They won't believe you.		
Fill in the gap with the correct word from among the	d. It will be dark soon.		
given options.	Put the correct verb form in the gap below.		
21. The price of consumer goods increasing.	33. I told you earlier if I had known.		
a. are b. is c. were d. has been	a. would b. would have		
22. Which of the following sentences is incorrect in	c. had d. should		
terms of subject verb agreement?	Choose the right pronoun from the given		
a. Each of the women owns her home.	alternatives in the following sentence.		
b.All of the women own their own homes.	34. If everybody does part, the game		
c.Here are two wrenches and a hammer.	should go smoothly.		
d. Here is a hammer and two wrenches.	a. his b. her		
23. Which of the following sentences has the	c. his or her d. their		
correct use of comma (,)?	35. Which of the following word is an adverb?		
a. June 27, 2018, is a day I will never forget.	a. good b. bad		
b. Some people who go to school, enjoy the	c. well d. melt		
social life.	T CII		
c. He was late for dinner, we decided to eat	Read the given passage and then choose the best		
without him.	answer to each question that follows.		
d.We were glad to see him, because he had	Recent advances in science and technology have		
brought gifts.	made it possible for geneticists to find out		
24. Choose the part participate of the verb quit.	abnormalities in the unborn foetus and take		
24. Choose the part participate of the verb quit.	aphormandes in the unpoin focus and take		

a. quitted

c. quitting

25. We spent a

options.

b. quit

Choose the correct alternative from among the given

evening together.

d. has quit

e approximation 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 in 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 c. Very Literate
- b. Wipe off 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. recklessb. optimisticc. introspectived. 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 n2 15?
 - a. 7 b. 5 c. 3 <u>d.</u> 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 $\sqrt{(5x + 31)}$?

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

59. What is the slope of the line whose equation is 2x - 4y = 9?

a. 1 b. $\frac{1}{2}$ c. 2 d. 3

Old Question F	or BCA Entrance	Preparation
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Ola	Question For BCA Entrance Preparation		
60.	Which one of the following is correct for the acute angle of right angled triangle?	76.	Which one of the following is true for prime number?
	a. Complementary b. supplementary		a. no factors b. only one factor
	c. Adjacent d. equal		c. only two factors d. more than two factors
61.	There are 60 students in a class. If 60% of them		·
	are girls, then how many boys in the class?	77.	Which one of the following interval notation is
	a. 24 b. 36 c. 18 d. 40		correct for $\{x: 5 \le x \le 15\}$?
62.	Last year Hari was 4 feet tall, and this year he is		a. $[5, \infty]$ b. $[\infty, 15]$
	5 feet tall. What is the percent increase of his		c. [6, 14] d. [5, 15]
	height?		****
	a. 10% b. 15% c. 20% d. 25%	78.	What is the value of 'x' when it is multiplied by
63.	What is the difference between $\frac{3}{5}$ of 80 and		6 and added to 3 times its own number gives
	30% of 80?		63? a. 6 b. 7 c. 8 d. 9
	a. 12 b. 18 c. 24 d. 20		
64.	The cost of 6 pens is equal to the cost of the 10	79.	What is the value of $(\sqrt{5} + \sqrt{5})^2$?
	pencils. If the cost of 4 pencils is Rs. 120, then		a. 20 b. 25 c. 10 d. 60
	what is the cost of 4 pens? a. 100 b. 200 c. 300 d. 400	80.	What is the number of seconds in $1\frac{1}{3}$ hour?
65	If the cost of 7 kg sugar is Rs. 210, how much		a. 1200 sec b. 2400 sec
05.	sugar can be purchased for Rs. 330?		c. 3600 sec d. 4800 sec
	a. 11kg b. 12kg c. 13kg d. 14kg	81.	In a kilometer race A beats B by 100 meters and
66	Ganga can read 48 pages per hour. At this rate,		B beats C by 150 meters. In the same race, by
00.	how many pages she can read in 80 minutes?		how many meters does A beats C?
	a. 60 b. 72 c. 48 d. 64		a. 150 m b. 100 m
67.	Two numbers are in the ratio of 6:7 and their		c. 250 m d. 200 m
,	sum is 117, then what are these numbers?	82.	The area of 4 walls of square room is $120 m^2$. If
	a. 56, 58 b. 63, 54		the height is 5 m, then what is the area of its
	c. 54, 63 d. 48, 56		floor?
68	If $5:7 = 15:x$, then what is the value of x?		a. $26 m^2$ b. $56 m^2$
00.	a. 18b. 21 c. 24 d. 35		c. $25 m^2$ d. $36m^2$
	If 1 1 60 1 11 11 1 1 1 1	83.	What is the probability of death?
69.	If cost price of 8 pens and selling price of 10		a. 1 b. $\frac{1}{2}$ c. 0 d. ∞
	pens is equal, then what is loss percentage? a. 20% b. 15% c. 10% d. 25%	84.	What is the chance to give the birth by a
		54.	pregnant lady on Tuesday?
70.	If the 20% discount is given on computer book costing Rs. 300, then what will be selling price?		a. $\frac{3}{7}$ b. $\frac{1}{7}$ c. 1 d. $\frac{1}{2}$
	a. Rs. 240 b. Rs. 220	0-	, , , , , , , , , , , , , , , , , , , ,
	c. Rs. 260 d. Rs. 250	85.	If the BACHELOR is written as 12345678, then
	, and the second		how will BCA be written? a. 123 b. 432 c. 147 d. 132
71.	A watch is bought at Rs. 250 and sold at Rs.	0.0	
	300, then what is the profit percentage? a. 10% b. 15% c. 20% d. 25%	80.	Which one of the following is missing alphabet in given table?
72.	What is the population doubling time if the		T Q N
,	population growth rate is 2% per anum?		P O S
	a. 60 yrs. b. 50 yrs.		
	c. 40 yrs. d. 30 yrs.		M ? R
73.			a. L b. U c. S d. V
	sum of money trebles itself in 25 years? a. 2% b. 4% c. 6% d. 8%	87.	Saru ranks 8th from the top and 20th from the
		- / .	bottom in class, then how many students are
74.	What is the cardinal number of a vowel set $V =$		there in class room?
	$\{a,e,i,o,u\}$?		a. 28 b. 27 c. 20 d. 29
	a. 4 b. 5 c. 6 d. 7	88.	Find the value of 'x' in series 1, 1, 2, 3, 5, 8, 13,
75.	What is the minimum value of $n(P \cap Q)$?		x?
	When $n(U) = 100$, $n(P) = 70$, and $n(Q) =$		a. 21 b. 22 c. 23 d. 20
	45?		
	a. 15 b. 55 c. 30 d. 45		

Old Question For BCA Entrance Preparation				
89. How many squares in the following figure?	Tribhuvan University			
	Faculty of Humanities and Social Sciences Bachelo			
	of Arts in <u>Computer Application Progr</u> am (BCA)			
	Entrance Examination 2076			
	Full Marks: 100			
	Time: 2 hrs.			
a. 13 b. 14 c. 15 d. 16	Attempt all questions:			
a. 13 b. 14 c. 15 d. 16	$Grammar (40 \times 1 = 40)$			
90. What is the value of cos 0°?	1. When did you on the last stage of your			
a. $\frac{1}{2}$ b. $\frac{1}{\sqrt{2}}$ c. 0 d. 1	journey?			
- ' -	a. set to b. set out			
Group C [General Knowledge]	c. set up d. set off			
91. When did the new constitute of Nepal "Nepal	2. Jenny always when you least expected			
Ko Sambidhan" was released?	her.			
a. 2072 Ashoj 4 b. 2072 Ashoj 3 c. 2072 Ashoj 2 d. 2072 Ashoj 1	a. showed up b. shut up			
92. Who is known as "Father of Computer"?	c. showed off d. shut down			
a. Charles Babbage b. Bill Gates	3. It is a 14 hour flight, so it will give me a change			
c. Mark Zuckerberg d. John V Neumann	a. catch up on b. catch on			
93. Which one of the following discipline is not	c. catch up with d. catch out			
awarded by noble prize?	4. Mrs. MacDonald is having the old cottage			
a. Literature b. Economics				
c. Physics d. Computer Science	a. do for something b. do without			
94. Which one of the following belongs to SSD? a. RAM b. ROM	c. do over d. do with			
c. Cache Memory d. Mass Storage	5. The new commercialvery well.			
95. Who won the FIFA World Cup 2018 held in	a. gets away b. gets across			
Russia?	c. gets about d. gets along 6. I'm still trying tocommon cold.			
a. England b. Croatia	a. shake off b. shake up			
c. France d. Germany	c. shack up d. show off			
96. Which one of the following is not an output	-			
device?	7. Take up a brisk walk to a good appetite. a. work out b. work up			
a. OCR b. Plotter c. Monitor d. Printer	c. wrap up d. write off			
c. Monitor d. Printer 97. What is the scientific name of human?	8. The synonym of "ameliorate" is:			
a. Rana Tigrina b. Homosepian	a. finish b. appreciate			
c. Felis Catus d. Rattus	c. improve d. affluent			
98. Which one of the following is the deepest river	9. Which one is appropriate synonym of			
of the Nepal?	"squalor".			
a Karnali b. Koshi	a. miser b. indolent			
c. Mahakali d. Gandaki	c. hinder d. shabby 10. Give an exact synonym of "hallowed".			
99. Who was the first prime minister of Nepal?	10. Give an exact synonym of "hallowed". a. mellowed b. sacred c. decayed d. mixed			
a. Janga Bahadur Rana b. Matrika Prasad Koirala	c. decayed d. mixed			
c. Bhimsen Thapa	11. The antonym of "cynical" is:			
d. Mathabar Sing Thapa	a. rustic b. friendly			
100. Who is the writer of the Nepal novel "Basain"?	c. hostile d. simple			
a. Lil Bahadur Kshetri	12. Give the antonym of "corpulent".			
b. Ramlal Joshi	a. bulky b. skinny			
c. Gopal Prasad Rimal	c. obese d. fat			
d. Lokendra Bahadur Chand	13. Killing of one's sister is called			
	c. sororicide d. suicide			
	14. Killing of snake is called:			
	a. apicide b. avicide			
	c. herpeticide d. filicide			
	15. Badminton is played on a court whereas boxing			
	in a			

a. court

b. track

Ola	Question For BCA Ent	rance Preparation
	c. ring	d. arena
16.		whereas a hermit in a
		b. convent, hermitage
	c. asylum, stable	d. cottage, inn
17.	The bell but b	
, .	a. tolls	b. jingles
	c. whistle	d. rattles
18.		
	a. humble	b. rough
	c. cheap	d. unique
19.	One who abandons his	s religious faith is a/an
		,
	a. postate	b. atheist
	c. secular	d. credulous
20.	Repetition or writing w	ord for word is putting it
	a. pedantic	b. extempore
	c. epilogue	d. verbatim
21.	Johnson died cancer.	
	a. by	b. in
	c. of	d. from
22.	I hope you will agree	
	a. to	b. on
	c. with	d. for
23.	I am angry you	ur rude manner but not
	angry you for n	ot helping me.
	a. at, with	b. with, with
0.4	c. to, with I know you are looking	d. to, to
-4 •		c. with d. by
25.		seful me as I have
25.	no taste in music debat	
		c. for d. by
26.		her car in a no parking
	area.	1 6
	a. for b. on	c. in d. at
27.	I'm interested in cric	eket but I'm not very
	good it.	
28.		c. at d. about
	What is the meaning of	the phrase "ad interim"?
	What is the meaning of	the phrase "ad interim"?
	What is the meaning of a. at pleasure c. to the extreme	the phrase "ad interim"? b. at will d. for the time being
29.	What is the meaning of a. at pleasure c. to the extreme A government controlled	the phrase "ad interim"? b. at will d. for the time being ed by the rich is:
	What is the meaning of a. at pleasure c. to the extreme A government controlle a. oligarchy	the phrase "ad interim"? b. at will d. for the time being ed by the rich is: b. aristocracy
29.	What is the meaning of a. at pleasure c. to the extreme A government controlle a. oligarchy c. plutocracy	the phrase "ad interim"? b. at will d. for the time being ed by the rich is: b. aristocracy d. democracy
29.	What is the meaning of a. at pleasure c. to the extreme A government controlle a. oligarchy c. plutocracy We must be early	the phrase "ad interim"? b. at will d. for the time being ed by the rich is: b. aristocracy d. democracy we won't get a seat.
29.	What is the meaning of a. at pleasure c. to the extreme A government controlle a. oligarchy c. plutocracy We must be early a. otherwise	the phrase "ad interim"? b. at will d. for the time being ed by the rich is: b. aristocracy d. democracy we won't get a seat. b. yet
29. 30.	What is the meaning of a. at pleasure c. to the extreme A government controlle a. oligarchy c. plutocracy We must be early a. otherwise c. however	the phrase "ad interim"? b. at will d. for the time being ed by the rich is: b. aristocracy d. democracy we won't get a seat.
29.	What is the meaning of a. at pleasure c. to the extreme A government controlle a. oligarchy c. plutocracy We must be early a. otherwise c. however Work like a Trojan.	the phrase "ad interim"? b. at will d. for the time being ed by the rich is: b. aristocracy d. democracy we won't get a seat. b. yet d. but
29. 30.	What is the meaning of a. at pleasure c. to the extreme A government controlle a. oligarchy c. plutocracy We must be early a. otherwise c. however Work like a Trojan. a. treats	the phrase "ad interim"? b. at will d. for the time being ed by the rich is: b. aristocracy d. democracy we won't get a seat. b. yet d. but b. works
29. 30. 31.	What is the meaning of a. at pleasure c. to the extreme A government controlle a. oligarchy c. plutocracy We must be early a. otherwise c. however Work like a Trojan. a. treats c. watches	the phrase "ad interim"? b. at will d. for the time being ed by the rich is: b. aristocracy d. democracy we won't get a seat. b. yet d. but
29. 30.	What is the meaning of a. at pleasure c. to the extreme A government controlle a. oligarchy c. plutocracy We must be early a. otherwise c. however Work like a Trojan. a. treats c. watches Fit like glove	the phrase "ad interim"? b. at will d. for the time being ed by the rich is: b. aristocracy d. democracy we won't get a seat. b. yet d. but b. works d. sleeps
29. 30. 31.	What is the meaning of a. at pleasure c. to the extreme A government controlle a. oligarchy c. plutocracy We must be early a. otherwise c. however Work like a Trojan. a. treats c. watches Fit like glove	the phrase "ad interim"? b. at will d. for the time being ed by the rich is: b. aristocracy d. democracy we won't get a seat. b. yet d. but b. works d. sleeps b. loosely fits
29.30.31.32.	What is the meaning of a. at pleasure c. to the extreme A government controlle a. oligarchy c. plutocracy We must be early a. otherwise c. however Work like a Trojan. a. treats c. watches Fit like glove	the phrase "ad interim"? b. at will d. for the time being ed by the rich is: b. aristocracy d. democracy we won't get a seat. b. yet d. but b. works d. sleeps
29. 30. 31.	What is the meaning of a. at pleasure c. to the extreme A government controlle a. oligarchy c. plutocracy We must be early a. otherwise c. however Work like a Trojan. a. treats c. watches Fit like glove	the phrase "ad interim"? b. at will d. for the time being ed by the rich is: b. aristocracy d. democracy we won't get a seat. b. yet d. but b. works d. sleeps b. loosely fits
29.30.31.32.	What is the meaning of a. at pleasure c. to the extreme A government controlle a. oligarchy c. plutocracy We must be early a. otherwise c. however Work like a Trojan. a. treats c. watches Fit like glove a. fits very well c. matches Time will tell.	the phrase "ad interim"? b. at will d. for the time being ed by the rich is: b. aristocracy d. democracy we won't get a seat. b. yet d. but b. works d. sleeps b. loosely fits
29.30.31.32.	What is the meaning of a. at pleasure c. to the extreme A government controlle a. oligarchy c. plutocracy We must be early a. otherwise c. however Work like a Trojan. a. treats c. watches Fit like glove a. fits very well c. matches Time will tell. a. no time left b. old fashioned ideas	the phrase "ad interim"? b. at will d. for the time being ed by the rich is: b. aristocracy d. democracy we won't get a seat. b. yet d. but b. works d. sleeps b. loosely fits d. dresses
29.30.31.32.	What is the meaning of a. at pleasure c. to the extreme A government controlle a. oligarchy c. plutocracy We must be early a. otherwise c. however Work like a Trojan. a. treats c. watches Fit like glove a. fits very well c. matches Time will tell. a. no time left b. old fashioned ideas	the phrase "ad interim"? b. at will d. for the time being ed by the rich is: b. aristocracy d. democracy we won't get a seat. b. yet d. but b. works d. sleeps b. loosely fits

d. future will show

c. fun and entertainment

d. creativity

35. Dressed up to the nines means.

a. very happy spirit

b. dressed in one's best clothes

c. a routine dress

d. a small chance to bring good luck

Read the following passage carefully and answer the questions given below it.

Sultan Nasiruddin was a wise and just ruler. Everybody sang his praises. He was kind to the poor. He used to distribute money to the poor and the needy. His treasury was full of wealth. In spite of having so much wealth, he did not spend anything on himself. He earned his living by copying the holy book of the Muslims. Though a king, he felt that he must earn his own livelihood. He led a simple life. His wife was forced to do all the household chores. She had to cook food, sweep the floor, make clothes and do many other household duties. At night, she complained of severe pain in her body. She muttered to herself. "My life is so miserable. I am tired of working from morning to evening."

One day while cooking food, she burnt her fingers. She started weeping. On seeing her weeping, Sultan Nasiruddin asked her, "Begum, what is the matter?" The queen started grumbling. "See, I have burnt my fingers. In spite of my being a queen, I have to work like other poor women. Why don't you employ some maid servant?" Sultan Nasiruddin replied, " No, Begum, I earn my livelihood by copying the Koran. My income does not permit me to spend lavishly." The queen was annoyed. She said, " Sultan, for whom is this treasury full? As a king, you must spend on yourself and your family." Sultan Nasiruddin disagreed. He replied, "Begum, you are mistaken. I cannot touch the treasure. It is people's wealth. I am answerable to God. I must earn my livelihood." The Begum was quiet. She was convinced by the Sultan's argument and accepted it willingly.

b. she was not happy with the Sultan's statement about his own income

c. the Sultan was busy copying the holy book.

d. of the Sultan's undue concern for her.

37. Why did Sultan Nasiruddin not use the money in the treasury for himself?

a. He was afraid that his subjects would accuse him of theft.

b. He had already distributed the money to the poor.

c. He wanted to annoy his Begum.

d. He was convinced that the money belonged to the people.

- 38. The demand of the queen was that the
 - a. Sultan should earn his own livelihood.b. Money in the treasury should not be distributed to the poor.
 - c. Sultan should employ a maid-servant.
 - d. Sultan should help her in her household duties.
- 39. Why was Sultan Nasiruddin popular among his people?
 - a. He was devoted to the holy Koran.
 - b. He was fair to all and was full of wisdom.
 - c. He kept the treasury full of wealth.
 - d. He made his wife work like an ordinary woman.
- 40. What forced the queen to do all the household chores?
 - a. The simple life style of the Sultan.
 - b. The lack of money in the treasury.
 - c. The poor working of the maid servant.
 - d. The Sultan's greed for money.

Group B [Mathematics] $(50 \times 1 = 50)$

d. -2

- 41. If the slope of line joining (1,2) and (k,-5) is equally inclined with both the axes, then the value of k is
 - a. 6 b. -6 c. 3
- 42. What is the value of $\cot 90^{\circ}$?
 - a. 3 b. $\frac{1}{2}$ c. 0 d. 1
- 43. What is the probability of drawing a queen when one card is drawn randomly from a well shuffled pack of 52 cards? Find the probability of drawing a red queen?
 - a. $\frac{1}{26}$ b. $\frac{5}{6}$ c. $\frac{3}{4}$ d. $\frac{15}{36}$
- 44. If A, B, C are the subsets of a universal set U. Then A-(BUC. is equal to,
 - a. (A-B).U(A-C) b. (A-B)\(\Omega(A-C)\) c. (A\(\Omega\)B)-(A\(\Omega\)C) d. (A\(\Omega\)B)-(A\(\Omega\)C)
- 45. Of a group of 120 students, 90 takes mathematics and 72 takes statistics. If 10 students neither of two, the number of student taking both subjects are:
 - a. 50 b. 45 c. 52 d. 58
- 46. -5 < x < 7 can be written in the absolute value sign as:
 - a. |x-1| < 7b. |x-1| < 6c. |x-1| < 2d. |x-1| < -1
- 47. If the relation R = {(1, 2), (2, 3), (3, 4), (4, 5)} then its range is, a. {2, 3, 4, 5} b. {1, 2, 3, 4}
- c. {1, 2, 3, 4, 5} d. {1, 3, 4, 5}
- 48. The value of $\tan 180^{\circ}$ is equal to, a. 1 b. -1 c. 0 d. \propto
- 49. $1^2 + 2^2 + 3^2 + \dots + n^2$ is equal to,

- a. $\frac{n(n+1)}{2}$ b. $\frac{n(n+1)(2n+1)}{6}$ c. $\left(\frac{n+1}{2}\right)^2$ d. None of the above
- 50. If a matrix $A = \begin{pmatrix} 0 & 5 & -6 \\ -5 & 0 & 2 \\ 6 & -2 & 0 \end{pmatrix}$, then matrix A
 - is known as
 - a. Symmetric Matrix
 - b. Skew-Symmetric Matrix
 - c. Diagonal Matrix
 - d. Triangular Matrix
- 51. The radius of the circle $x^2 + y^2 = 9$ is equal to, a. 4 b. 3 c. 5 d. 9
- 52. The value of $2\sqrt{128} + \sqrt{162}$ is,
 - a. $25\sqrt{2}$ b. $4\sqrt{3}$ c. o d. 60
- 53. If $A = \begin{bmatrix} 1 & 2 \\ 3 & 1 \end{bmatrix}$, then the value of $A^2 2A 5I$ is equal to,
 - b.-1 c.2 d.0
- 54. What is the half of quarter of 400? a. 200 b. 100 c. 50 d. 90
- 55. Half percent, written as a decimal is, a. 0.2 b. 0.02 c. 0.005 d. 0.0
- 56. The true discount on Rs. 2,562 due 4 months hence is Rs. 122. The rate percent is:
- a. 12% b. 13% c. 14% d. 15%

 57. The percentage increase in the area of a rectangle, if each of its sides is increased by 20% is:
 - a. 40% b. 42% c. 44% d. 46%
- 58. AB and CD bisect each other at O. If AD = 6 cm, BC is:
 a. 5.9 cm
 b. 6 cm
 c. 4.8 cm
 d. 7 cm
- a. 5.9 cm b. 6 cm c. 4.8 cm d. 7 cm 59. The compound interest on Rs. 30,000 at 7% per annum is Rs. 4347. The period (in years) is: a. 2 b. 3 c. 4 d. 8
- 60. If a man were to sell his chair Rs. 720, he would lose 25% to gain 25%. He would sell it for:
 a. Rs. 1.200
 b. Rs. 1,000
 c. Rs. 960
 d. Rs. 900
- 61. Find the percentage gain or loss when the dot pens bought for Rs. 96 per dozen were sold at the rate of 10 for Rs. 90?
- a. 13% b. 20% c. 4% d. 12.5% 62. What is the value of $\cos^2 30^0 \sin^2 30^0$?
 - a. $\frac{1}{2}$ b. $\frac{\sqrt{3}}{2}$ c. $\frac{1}{\sqrt{3}}$ d. $-\frac{1}{2}$
- 63. How many stones each of area 0.16 cm square are required for paving a courtyard 5.5 m long and 4.8 m wide?

 a. 60 b. 100 c. 50 d. 165
- 64. Which one is the formula for area of equilateral triangle?
 - a. $\frac{\sqrt{3}}{4a^2}$ b. $\frac{1}{2} \times b \times h$
 - d. None of these

65.	The commission of Rs. 5,600 at the rate of 3.5%		c. irrational d. imaginary
	is:	70	A polygon having 10 sides is called,
	a. Rs. 196 b. Rs. 440	/ 9•	
	c. Rs. 360 d. Rs. 1,000		a. decagon b. heptagon c. quadrilateral d. hexagon
66.	The discount percent of marked price is Rs.	80	Linear equation is also known as,
	5,800 and discount amount is Rs. 696 then the	00.	a. simultaneous equation
	discount percent is,		b. second degree equation
	a. 12% b. 20%		c. first degree equation
	c. 5% d. 38%		d. zero degree equation
67.	What is the tax rate if original price is Rs. 2,000	Q ₁	Two straight lines in same plane which never
	and selling price is Rs. 2,400?	61.	meet are called,
	a. 20% b. 17.39%		a. angles b. transversal lines
	c. 35% d. 10%		c. vertex d. parallel line
68.	The sum of the ages of father and his son is 52		c. vertex u. paranei inie
	years. Eight years ago the father was eight times	90	Degree of polynomial $f(u) = au^2 + 2(a \neq 0)$
	as old as his son, the present age of son is,	62.	Degree of polynomial $f(x) = ax^2 + 2 (a \neq 0)$
	a. 10 years b. 20 years	00	a. 2 b2 c. 1 d3
	a. 10 years b. 20 years c. 12 years d. 15 years	83.	If A, G, H are arithmetic, geometric and
69.	If 4 is subtracted from a square of a number, its		harmonic means between a and b,
	result is 21. The number is,		a. in G.P b. in A.P c. real numbers d. in H.P
	a. 5 b. 4 c. 6 d. 3	٥.	c. real numbers d. in H.P
70.	The radius of the circle $x^2 + y^2 - 12x - 4y = 9$	84.	In selling an article for Rs. 76, a shopkeeper
•	is equal to,		gain 52%. The gain by selling that for Rs. 74 is
	a. 18 b. 7 c. 10 d. 2	0-	a. 45% b. 48% c. 49% d. 50%
71.	The system of linear equation will be consistent	85.	Ram bought oranges at 6 for Rs. 10 and sold
	and independent if they have,		them at 4 for Rs. 6, find his loss percent
	a. exactly one solution	0.0	a. 12% b. 8% c. 6% d. 10%
	b. more than one solution	80.	Which of the following is incorrect?
	c. no solution		a. A.M = ab b. a b ab G M $+ = 2$.
	d. none of these		c. 2. a b H M $+=$ d. none of these
72.	Let a and b are two numbers on the real line. If	87	By giving a discount of 10% on the marked price
	$(a, b] = \{x: a < x \le b\}$ is known as,	٥,٠	of Rs. 1,100 of a mobile phone a dealer gains
	a. left open interval		10%, then the cost price is
	b. right open interval		a Rs 050 h Rs 000
	c. closed interval		a. Rs. 950 b. Rs. 900 c. Rs. 1,000 d. Rs. 1,050
	d. open interval	88	Rama purchased a table in Rs. 1,260 and due to
73.	Let f:R \rightarrow R and g:R \rightarrow R be defined by $f(x) =$	00.	some damage on its top, she had to sell it for Rs.
	$2x^2 - 3$, $g(x) = 3x + 2$. Then the composite		1,197,
	functions gof(x) is,		a. 20% b. 15% c. 10% d. 5%
	a. $9x + 8$ b. $2x + 2$	80.	A shopkeeper purchases 11 pens for Rs. 10 and
	c. $2x + 1$ d. $6x^2 - 7$	- 7.	sells them at of 10 for Rs. 11, then the profit is,
74.	A square matrix A is said to be singular if its		a. 18% b. 19% c. 20% d. 21%
	determinant is equal to,		,
	a. 1 b. 0		/1 0 0\
	c1 d. none of these	90.	If $A = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$, then A is
75.	The system of equations $4x - 3y = -6$, $-4x + 2y$		\0 0 1/
	= 16 is,		a. unit matrix b. singular matrix
	a. consistent and dependent		c. symmetric d. all of them are true
	b. inconsistent and independent		
	c. inconsistent and dependent		Group C [General Knowledge]
	d. consistent and independent		$(10 \times 1 = 10)$
76.	Ratio of 2 km to 600 m should be,	91.	The famous Muktinath Temple is situated in,
	a. 2:7 b. 2:8 c. 2:3 d. 10:3		a. Tanahun b. Makwanpur
	In $a : b = c : d$, then b and c are called,		c. Mustang d. Gorkha
77.		92.	The longest river in the world is,
			a. Nile b. Ganga
	c. consequent d. mean		c. Amazon d. Indus
78.	If $b2 - 4ac < 0$ then the roots of $ax2 + bx + c =$	93.	In computer abbreviation of 'OS' usually
	o are:		means?
	a. equal b. rational		a. Order Significance b. Open Software
		=	<u> </u>

Old Question For BCA Entrance Preparation				
c. Operating System d. Optical Sensor	Tribhuvan University			
94. What day was yesterday, if Monday is in two	Faculty of Humanities and Social Sciences Bachelor			
days?	of Arts in Computer Application Program (BCA.			
a. Wednesday b. Thursday	Entrance Examination 2077			
c. Friday d. Saturday	Full Marks: 100 Time: 2 hrs.			
95. Which district lie in state number 3? a. Helambu b. Birgunj	Attempt all questions:			
c. Tanahun d. Lumbini	Grammar $(40 \times 1 = 40)$			
96. How many bits equal to one byte?				
a. 4 b. 16 c. 8 d. 32	Group: I (English)			
97. Who won the FIFA World Cup 2018?	1 (0)			
a. Croatia b. Russia	Circle the correct answer from among the			
c. Argentina d. France	given options (Multiple Choice Questions)			
98. What is the term to ask the computer to put information in order numerically or	1. Above Board			
alphabetically?	a. boasting person			
a. Crop b. Report	b. honest and straightforwardc. a man with arrogance			
c. sort d. Record	d. a dishonest person			
99. How many districts are there in Nepal?	_			
a. 75 b. 73 c. 77 d. 76	2. Call a spade a spade			
100. Which one of the following is not a part of the internet?	a. to disrespect b. to say in anger			
a. WWW b. E-mail	c. to speak plainly d. to manipulate			
c. CDROM d. HTTP	3. Roots and branch			
	a. entirely b. step by step c. part by part d. bare truth			
	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			
	c. naru u. crisp			

Old Question For BCA Entrance Preparation					
14. The meaning of "shimmer" is:		29.	29. What do you infer this boy's hesitating		
a. to flicker like sunlight			behavior?		
b. to shine like sunlight			a. from	b. for	
c. to move like sunlight			c. with	d. against	
d. all of above		30.	Beggar begged money	me .	
15. The word "Snub" gives the	ne meaning as :		a. to	b. from	
a. to ignore	b. to avoid		c. by	d. with	
c. to shun	d. all of above	31.	The word 'profuse' is mea		
16. The enemy paid large su	m as		a. not many	b. an average number	
a. redress	b. amends		c. great abundance	d. current amount	
c. compensation	d. punishment	32.	Give a wide berth		
17is a person who	dabbles in arts and		a. to welcome	b. to applaud	
letters.			c. motivate	d. to avoid	
a. chauvinist	b.connoisseur	33.	When the church comes		
c. philistine	d. dilettante		a. movement of decision	b. destination	
18. We lost confidence on hi			c. dotage	d. win something	
the grandiose pror		34.	Benevolent is meant to:		
a. forget	b. tired		a. generous	b. kind	
c. delivered on	d. Relied upon		c. good	d. all of the above	
19. His in his family's p	oosition is great but he	35.	Pyrrhic victory	1 1	
does not boast about it.			a. real victory	b. victory with a policy	
a. status	b. pride		c. much awaited victory		
c. deceit	d. presumption	- 6	d. victory at a high cost		
20. Even when murunga's re		36.	Set people by ears.	1 . 1	
almost everyone was wil	ling to admit that he had		a. to incite people	b. to listen carefully	
genius.	hh		c. to give a long speech	d. to abuse	
a. Failure c. accumulation	b. rebuttal	37.	He said,"Would you like to a. He offered me tea	tea.	
	d. eclipse			0.400	
21. Shyam has no control	b. in		b. He asked if I would like. Both A and B	e tea	
a. after	d. at				
c. over 22. She could not dissociate		98	d. None of the above According to the passage	the question of abortion	
said earlier.	nersen what she	30.	is,	the question of abortion	
a. of	b. with		a. hotly debated	b. ignored	
c. off	d. from		c. unanswered	d. undecided	
23. We travelled a boa		20	Which of the following is		
a. for	b. on	39.	genetic engineering?	not true about the	
c. about	d. by		a. Acquired ability to dete	ect disorder in unborn	
24. I am used such hard			babies.	200 41201401 111 4112 0111	
a. for	b. at		b. Possibility of abuse.		
c. from	d. to		c. Increased tendency to	manipulate gene cells.	
25. I was disappointed			d. Acquired ability to ma		
in his seat .	J	40.	According to the author of		
a. from	b. on	'	present state of knowledg		
c. at	d. in		made geneticists.	·	
26. Ram is confident	his success		a. reckless	b. optimistic	
a. for	b. about		c. introspective	d. arrogant	
c. towards	d. of		4	Ş	
27. The reward was not com	mensurate the work		Mathematic	s (50X1=50)	
done by us .		41.	The slope of the line pass		
a. on	b. for		$\left(\frac{1}{a},b\right)$ is:		
c. with	d. order		•	an de	
28. The citizens must not m	ırmur new taxes .	40	a. 0 b. 4 If D(ALIP = 1 two events	c. 3 d. 2	
a. over	b. upon	42.	If P(AUB.= 1, two events a. mutually exclusive		
c. against	d. with			b. equally likely events ident events	
		<u> </u>	c. exhaustive u. deper	ident events	

O	old Question For BCA Ent	trance Preparation				
43.	3. The set $\{X: X^2 + X + 1 = 0, X \in R\}$ is:			The cost price of 10 12 articles is equal to the		
10	a. $\{1, \sqrt{3}\}$	b. $\{-1, \sqrt{3}\}$	Ü	selling price of 9 articles,		
	c. {}	d. (-1,0)		a. 33.33%	b. 40.5 %	
44.	Every rational number is			c. 45%	d. 49%	
• •		b. a whole number	59.	The area of a triangular f	ield whose three sides	
	c. an integer number	d. areal number		are 300,400 and 500m (
45.	If $f(u) = \frac{u}{u-1}$, then $f(a)/f(a)$	7 + 1) is:		a. 6000	b. 5000	
40.				c. 400	d. 200	
	a. $f(-a)$ c. $f(a^2)$	b. $f\left(\frac{1}{a}\right)$	60.	The number of bricks, ea	ch 4cm x 3cm x 2cm are	
	$c f(a^2)$	d. $f\left(\frac{-a}{a+1}\right)$		required to construct a w		
		(411)		dimension 11cm x 96cm		
40.	Average of even number l	_		a. 2815	b.281600	
	a. 60	b. 40		c. 218500	d. 2185	
	C. 50	d. 70	61.	The value of sec60° is:		
47.	The value of cot 30° is:	- (a. $\frac{1}{2}$	b. $\frac{\sqrt{3}}{2}$	
	a. $\frac{1}{2}$	b. 2/√3				
	c. √3	d. 1		c. 2	d. $\frac{1}{\sqrt{3}}$	
48.	If AB=C exists, which of t	he following order of	62.	The rate percentage per a		
-	matrices is possible?	G		money trebles itself in 25		
		$b.A_3X_2, B_2X_3, C_2X_2$		a. 25 %	b. 10%	
	$c.A_3X_2, B_2X_3, C_3X_3$	d. A_3X_3 , B_2X_3 , C_3X_3		c. 4%	d. 8%	
49.	The area of 4 walls of squ		63.	The percent age of mothe		
17.	the height is 5m, the area		Ü	30 years and 14 years res		
	a. 56m ²	b. $36m^2$		of years ago that the prod		
	c. 46m ²	d. $26m^2$		is:	9 ,	
				a.5	b. 6	
50.	The value of 32 5 4 is	s:		c. 7	d. 9	
	The value of $\begin{vmatrix} 48 & 1 & 6 \\ 32 & 5 & 4 \\ 16 & 3 & 2 \end{vmatrix}$ is		64.	If 5 is subtracted from th		
	a. 1	b. 2		and the result is 20, the r		
	c. o	d. 4		a. ±5	b. <u>±</u> 6	
51.	Raman salary was decrea			c.±7	d. ±9	
	subsequently increased b	y 50%. He has a loss of	65.	A rope is 40 ft. long is cu	t into two pieces, if one	
	•			pieces, if one piece is 18 f	t. longer than the other	
	A. 0%	b.25%		What is the length, in fee	et, of the shorter piece?	
	c.0.25%	d. 2.5%		a. 11	b. 12	
52.	If $a = 4b$, what percent of			c.13	d. 14	
	a. 10%	b. 20%	66	If $M = \begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix}$, $M^2 - rM - 1$	=0 the value of r is ·	
	c. 25%	d. 26%	00.			
53.	What 3 percent is 250 ou			a2	b4	
	a. 25%	b. 35%	-	C. 4	d. 2	
	c. 24%	d. 30%	67.	The inequality $-6 \le 2X + 1$		
54.	The equation of the straig			$a6 \le X \le 1$		
	(2,4) and having slope -2			$c7 \le X \le 5$	$d6 \le X \le 1$	
	a.2x + y = 8	b.2x - y = 4	68.	If $f(x)=3x+5$, then value of	of $\frac{f(x+h)-f(x)}{h}$ is:	
	c.x + 2y = 8	d. x - 2y = 4		a. 2	b. 3	
55.	A sum reckoned at 12% S	1 amounts to Rs. 2409		c. 4	d. 5	
	in 4 years, the sum is:	1	69.	The difference of two irra	tional number is :	
	a. 1625	b. 1635		a. always an irrational nu	mber	
	c. 1640	d. 1652		b. always a rational numl	oer	
50.	Ram gains the cost price			c. always a real number		
	50 books . His profit perc	_		d. All of above		
	a. Rs 30%	b. 25%	70.	If $p-q+r = 4$ and $p+q+r=8$	8, the value of p+q=	
	c. 20%	d. 16%		a. 2	b. 4	
5 7•	$\cos 45^0 =$	5 -1		c. 6	d. 8	
	a. 1 b. 0	c. $\sqrt{2}$ d. $\frac{1}{2}$				

0	ld Question For BCA Ent	rance Preparation				
71.	If $\frac{a}{4} = \frac{b}{5} = \frac{c}{9}$ then, $\frac{a+b+c}{c}$ is	:		c. 25%		d. 40%
,		b. 2	85	If $A = \binom{n}{n}$	0) and A^2 is i	dentity matrix, the value
	a. 4 c. 7	d. none	03.	.0	1) 4114 11 13 1	dentity matrix, the value
72	If 60% of 450=15x, the va			of n is:		l. a
/ 2.	a. 6	b. 18		a. 1		b.2 d.3
	c. 36	d. 72		c. 0	2) (x	a.3
73	The system of equation -4	•	86.	If $A = \begin{pmatrix} 1 \\ 2 \end{pmatrix}$	(2, 1), Q= $(3, 2)$	$\begin{pmatrix} 3 \\ -1 \end{pmatrix}$, determinant of 2p-
/ 3.	z=-14 have :	71 - O 11		3a is -5 . t	he value of x is	s equal to :
	a. unique solution	b. no solution				b. $\frac{1}{2}$
	c. infinity many solutions			a. $\frac{-1}{2}$ c. $\frac{-1}{3}$		2
74.	The area of rectangle field			c. $\frac{1}{3}$		$d.\frac{\frac{2}{-1}}{4}$
, .	perimeter is 92 meter. Th		87.	The simpl	le interest on F	Rs. 1250 for 5 years at 8%
	m) are:	,		p.a is:		
	a. 7,4	b. 9,7		a.480		b. 1000
	c. 29,17	d. 19,13		c. 500		d. 625
75.	While solving the value of	$f x is X^3 - 3x^2 + 3x -$	88.			les itself in 8 years at
	1 = 0 .			simple int	terest, the rate	percent per annum is:
	a. 2	b. 1		a. 10. 5%		b. 11. 5%
	c. both	d. none		c. 12. 5%		d. 13. 5%
76.	The side of triangle are 30	cm,4cm and 5cm. it is:	89.			ne ratio 5:7 and their least
	a. a right angle triangle				multiple is 315	, their product is :
	b. an isosceles triangle			a. 2385		b. 2538
	c. an equilateral triangle			c. 2358		d. 2835
	d. none of these		90.		5:8, then x is ϵ	_
	Which of the following re	presents all solutions of		a. 1.12		b. 1,2
	the inequality $x^2 < 2x$?			c. 1.25		d. 1.30
	a1 <x<1< td=""><td>b. 1<x<3< td=""><td></td><td></td><td></td><td>l of milk from this</td></x<3<></td></x<1<>	b. 1 <x<3< td=""><td></td><td></td><td></td><td>l of milk from this</td></x<3<>				l of milk from this
	c. 0 <x<2< td=""><td>d. 4<x<6< td=""><td></td><td></td><td></td><td>en out and replaced by</td></x<6<></td></x<2<>	d. 4 <x<6< td=""><td></td><td></td><td></td><td>en out and replaced by</td></x<6<>				en out and replaced by
78.	If the term 2x, x+10 and 3	3x+2 be in AP , the value				repeated further two
	of x is					s now contained by the
	a. 7	b. 10		container a. 26.34l	ŗ	b. 27.36l
	c. 6	d. 5		a. 20.341 c. 28l		d. 29.16l
79.	If $t_n = 3n - 2$, the value of			C. 201		u. 29.101
	a. 35	b. 40		Soct	ion. IV Cor	neral Awareness
0.0	C. 45	d. 50		Secti		
80.	If $S_n = 1 + 2 + 3 + \dots + 3 + 23 + 23 + 23 + 23 + 2$	-n=20 the sum of the		ml c		1 = 25)
	series $S_n = 1^3 + 2^3 + 3^3$		91.	The famo	us Halesi mah	adev temple is situated in
	a. 400	b. 500 d. 1000		: - Tamlain		h Whatana
Q ₁	c. 450 While selling a pen for Rs			a. Taplejuc. Sarlahi	_	b.Khotang
	5%, for what price should		00		t flag in the wo	d. Morang
	a. 55.26	b. 52.63	92.	a. Italy	t mag mi the wo	b. Russia
	c. 55	d. 56.32		c. Denma	rk	d. China
82	A man sold 250 chairs an		0.9			troduced from :
o 	selling price of 50 chairs.		93.	a. Spain	ir was mistry m	b. Germany
	a. 5%	b. 10%		c. France		d. America
	c. 25%	d. 50%	04		ıter abbreviatio	on of AI usually means?
83.	A watch is bought at Rs.2		24.	a. Art info		on of the assumy means.
- 0.	the gain percent is:	<u> </u>			al Intelligence:	?
	a.25%	b.20%		c. Artificia	_	:
	c. 50%	d. none			al internet	
84.	The list of price of an arti		95.			chancellor of the
~7.	selling price and cost price		1		n University?	
	price, then rate of discour			a. Dilli Pd		
	a. 15 %	b. 20%		b. Shivala		
_	U /v	20,0			ilalana DOA E	. B .: B 1

c. Ram pd. Khatiwada Tribhuvan University Faculty of Humanities and Social Sciences Bachelor d. Tirtha Khaniva of Arts in Computer Application Program (BCA) 96. The national game of Bhutan is: **Entrance Examination 2078** a. Cricket b. Archery Full Marks: 100 c. Bull fighting d. Football Time: 2 hrs. 97. The CEO of Apple is: Attempt all questions: a. Satva Nadela h Tim Cook Group: I (English) c. Warren Buffet d. Sundar Pichai Grammar $(40 \times 1 = 40)$ 98. What is the capital of Brazil? Circle the correct answer from among the b. Rio the janeiro a. Brasilia given option (Multiple choice questions) c. Sao paulo d. Salvador 99. Who is the Captain of Nepal's National National I'm really looking forward to.....my Football team? new course. a. Anil Gurung b. Bimal Gharti Magar b. starting a. start c. Bharat Khawas d. Kiran Chemjong 100. Which country is known as the 'Gift of Nile' d. to start c. started a. Iraq b. Iran 2. 'We had a new teacher today called Mary'. c. Egypt d. Italy What was she....? a. liked b. look like c. like d.as '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 Martha has been watching television and a. Ralph has too b. Ralph hasn't either c. so does palph d. neither has Ralph 5. If you are "up front", you are a. bold b. sincere c. brave d. strong 6. "Under wraps" means...... b. with difficulty a. in secret c. in a small space d.to get appoint 7. An Englishman's home is his...... a. church b. house d. castle c. outdoors 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 heared. 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'.

b. fairness

d.co-ordination

a. appreciation

c. cohesion

Fill	in the gap with the correct word from	c. had made d. will make	
am	ong the given options.		
12.	The prices of consumer's goods	Supply the correct tag for the following	
	increasing now.	statement.	
	a. Are b. is	26. Let us go,	
	c. were d. has been	a. Shall we? b. will you?	
13.	Please Enclosed our current catalogue	c. do we? d. don't we?	
	and price list	27. Neither of thema problem.	
	a. find b. look	a. anticipate b. anticipates	
	c. receive d. examine	c. have anticipated d. are anticipating	
14.	The word 'Beautiful' has its principal stress		
	on thesyllable.	Choose the correct passive voice for the	
	a. 1st b.2nd	following sentence.	
	c.3rd d.4th	28. We celebrate Democracy Day on Falgun	
15.	Which of the following word does not have a	seven	
	suffix?	a. Democracy Day is celebrated on Falgun	
	a. painful b. goodness	seven by us	
	c. fearless d. courage	b. Democracy Day was celebrated on	
16.	Which of the following word in an adverb?	Falgunseven by us	
	a. good b. painful	c. Democracy Day has been celebrated on	
	c. well d. bad	Falgun seven by us.	
17.	Rosemarythree languages.	d. Democracy Day had been celebrated on	
	a. speaks b. talks	Falgun seven by us.	
	c. tells d. know	29. She is obedient student.	
18.	Your English is really improving but	a.an b. a	
	mine	c. the d. none of the above	
	a. haven't b. don't	30. The opposite meaning of 'accepted' is,	
	c. isn't d. doesn't	a. liked b. noted	
19.	Mike is beside Pat. Pat isMike.	c. provided d. rejected	
	a. behind b. between	31. Choose the word nearest in meaning to 'copy'	
	c. beside d. in front of	a. Imitate b. Deny	
20.	His office is the second floor of the	c. Discuss d. Reject	
	building.	Missa is the compact indirect speech for	
	a. at b.in	Which is the correct indirect speech for	
	c. of d. on	the direct speech given below?	
21.	you have a good holiday last year?	32. Hari says, "I am very happy"	
	a. Do b. Does	a. Hari says he is very happy. b. Hari says he was very happy.	
	c. Did d. Are		
22.	I left college three years	c. Hari said he is very happy.	
	a. nothing b. ago	d. Hari said he was very happy.	
	c. for d. in	33. A government controlled by the rich is: a. oligarchy b. democracy	
23.	Their son In this hospital.	a. oligarchy b. democracy c. plutocracy d. aristocracy	
	a. works b. begins	34. We must be earlywe won't get a seat	
	c. starts d. likes	•	
24.	Will you off the photocopier?	a. otherwise b. yet c. however d. but	
	a.to turn b. turning		
	c. turned d. turn	35. Badminton is played on a court whereas	
25.	He began to realize that hea mistake.	boxing in a	
	a. is making b. has made	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 childrenmesmerizing them, stunting their ability to thick, 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 futureweather 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 ∪. 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⊃B

- 42. If n(U) = 120, n(A) = 55, $n(B)=75,n(A \cup B) = 100$ then $\overline{n(A \cup B)} = ?$
 - 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 fog(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% c.30% b.25% 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 Ent	rance Preparation			
51.	If a surface area of a	hemisphere is 32m3		c. non-singular matrix d. identify matrix	
	then its radius is equa	l to	63.	The famous mathema	aticians associated with
	a.3m	b.4m		finding the sum of the	e natural number is,
	c.5m	d.6m		a. Pythagoras	b. newton
52.	Two number are in t	he ratio 2:5 and their		c. Gauss	d. Euclid
	sum is 35 then the sm	sum is 35 then the smaller number is		Sum of the series 1+1	/2+1/22 +1/23+
	a.10	b.12		a.1	b.2
	c.14	d.16		c.1.555	d.1.7555
53.	The numerical value of	of $(343)^{-\frac{2}{3}}$ is equal to	65.	The A.M. between x-	3 & x+5 is ,
	a. 1/49	b.1/7		a.2x+2	b.x-1
	c. 1/25	d.1/29		C.X+1	d.2x+1
54.	If $32x + 1 = 92x - 1$	then the value of x is	66.	The value of sin75 is	_
	equal to			a. $\frac{\sqrt{3}+1}{2\sqrt{2}}$	$b.\frac{\sqrt{3-1}}{2\sqrt{2}}$
	a. 1/2	b.3/2		· ·	
	c. 5/2	d.1		$c.\frac{\sqrt{3}+2}{2\sqrt{2}}$	$d.\frac{\sqrt{3}+1}{\sqrt{2}}$
55.	In a single throw	of a dice, find the	67.	The mean of the data	
	probability of getting a	a number divisible by 3		a.7	b.8
	is			c.9	d.10
	a. ½	b.1/3	68.	-	two straight line $2x -$
	c. 1/4	d.2/3		3y + 1 = 0 &3x + 2y	-2 = 0 is
56.		at random from a bag		a.450	b.600
	containing 15 tickets numbered from 1 to 15.			c.750	d.900
		bability that the ticket	69.	The value of $\lim_{x \to a} \frac{\sin(x-a)}{x-a}$	<u>-a)</u> is
	contains a number wh	ich is multiple of 3		a.o b.1	c1 d.1/2
	a. $\frac{1}{2}$ b. 3	c.4 d.5	70.	The derivatives of tar	
57.	3	al space the three axes	70.		o. sec x
0,	divide the space into	•		_	l. cot
	a.4 parts	b.6 parts	71		
	c.8 parts	d. 3 parts	/1.	The limit value of $\lim_{x\to a}$	
58.		diagonals indicates the		,	0.0
	area of				l.1
	a. parallelogram	b. rectangular	72.		(-1,2) about the line y=x
	c. square	d. rhombus		is	h (o 1)
59.	A parallelogram havir	ng it's area 24cm2 and		a.(1,2)	b.(2,1)
	base 6cm then it's heigh	ght is equal to ,	70	c.(-2,1) The value of (i)101 is	d.(2,-1)
	a. 2cm	b.3cm	/3•	_	b1
	c.4 cm	d.6 cm		a. I	di
60.	If the area of triangle 56sq.cm and the		74	C.1 The number of subse	et of a set containing n
	altitude 8cm then the base is ,		/4•	element is	et of a set containing if
	a. 7cm	b.8cm		a. 22n	b.2n
	c.14 cm	d.28cm		c.2n	d.n2
61.	If $A = \begin{bmatrix} 3 & 2 \\ 4 & 3 \end{bmatrix}$, then the inverse of A is equal to		75	If $A = 600$ value of $sin3A$ is	
	- 1 3-	- 0 0 -	/ 3.	a.1/2	b.o
		$b.\begin{bmatrix} -3 & 2 \\ 4 & -3 \end{bmatrix}$		c1/2	d.3/2
	$c.\begin{bmatrix} -3 & 2 \\ -4 & 3 \end{bmatrix}$	$d.\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$	76.	· · · · · · · · · · · · · · · · · · ·	is $x^2 + y^2 - 4x + 2y -$
60		-0 1-	,	11 = 0, then it's cent	
62.	If A =0, then A is called			a.(-4,2)	b.(-2,1)
	a. singular matrix	b. zero matrix		c.(2,-1)	d. (2,1)

77. If an equilateral triangle has side length a then it's area is $a.\frac{\sqrt{3}}{2}a^2 \qquad \qquad b.\frac{\sqrt{3}}{4}a^2$

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 450 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. o 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

 $\begin{array}{lll} a.\cup -A & & b.A2 \\ c.\ A & & d.\cup 2 \end{array}$

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

 $\begin{array}{cccc} a. \ n & b. \ n+1 \\ c.2n & d.2n+1 \end{array}$

88. The centroid of a triangle is a point where a. the perpendicular from vertex to opposite

sides meets b. medians meet

c. bisectors of each angle meet

d. perpendicular bisectors of each sides meet

89. The set $A = \{x: x \in \mathbb{N} \& x2 + 3x + 2 = 0\}$ 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 Boneb. Abacusc. Slide ruled. Differe

d. Difference Engines

94. When did Nepalese government published new map including Limiyadura, Kalapani and lipulekh?

a.2077Jestha 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 neupaneb. 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. Serpentesb. Cercopithecidaec. Anurad. 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

Old Question For BCA Entrance Preparation	
Tribhuvan University	c. hadn't he d. none
Faculty of Humanities and Social Sciences	17. Stop that noise,?
Bachelor of Arts in Computer Application	a. will you b. won't you
Program (BCA)	c. can't you d. don't you
Entrance Examination 2022	18. Let's march ahead,?
Full Marks: 100	a. will you b. won't you
Time: 2 hrs.	c. can't you d. don't you?
Attempt all questions:	19. You and I are friends,?
Group A Grammar $(40 \times 1 = 40)$	a. aren't we b. aren't I
Circle the correct answer from among the given	c. aren't you d. all possible
options (Multiple Choice Questions)	20. Everyone is happy,?
	a. Isn't they b. aren't they
1. Managers have authoritytheir	c. isn't everyone d. aren't everyone
employees.	21. I wish that heto the party.
a. over b. with c. on d. in	
2. She was bornthe 14 th of July, 1994	a. may come b. will come c. can come d. would come
a. in b. by c. at d. on	22. The tourist finally got used toNepali food
3. At the end of the street, turnyour left.	
a. on b. at c. to d. with	after staying in Nepal for five months. a. eat b. to eating
4. The man has been working herelast	S S
Monday.	
a. for b. from c. to d. since	23. The cat hadtail hurt. a. it b. it's c. their d. its
5. She is expected to arrive a month's time.	311 13
a. at b. by c. in d.	24. She washes the clothes
on	a. themselves b. herself
6. He crossedPacific ocean by plane.	c. himself d. ourselves
a. a b. an c. the d. none	25. The plural of "goose" is
7. She isdoctor by profession.	a. gooses b. goosees
a. a b. an c. the d. none	c. geese d. gooses
8. Please calldoctor as soon as possible, he is	26. The opposite of " detest" is
getting worse.	a. love b. hate
a. a b. an c. the d. none	c. prove d. none
9. Milan is innorth of Italy.	27. The word "understand" receives stress on its
a. a b. an c. the d. none	syllable.
10. She isSmallest of the three sisters.	a. 1 st b. 2 nd c. 3 rd d. 4 th
a. a b. an c. the d. none	28. A speech made at the end of the day.
11. She helped her brotherthe problem.	a. Prologue b. epilogue
a. solve b. solving	c. dialogue d. monologue
c. solves d. solved	29. He said "what a beautiful scene!"
12. I will make herthe telephone.	a. He said that what a beautiful scene it was
a. answered b. answer	b. He exclaimed what a beautiful scene it was
c. answering d. answers	c. He exclaimed what a beautiful scene it
13. She is having methe job for her.	were.
a. done b. doing	d. He exclaimed that it was a beautiful dress.
c. do d. to doing	30. What is the indirect of "congratulations"?
14. He got his car	a. He congratulated me.
a. fixing b. fixed	b. He told me congratulations.
c. to fix d. fix	c. He said congratulations.
15. My mother got memy work.	d. He wished me congratulations.
a. to complete b. completed	31. What is the passive of "I did it"?
c. complete d. completing	a. It is done b. It is being done
16. Columbus discovered America?	c. It was done d. It has
a. did he b. didn't' he	been done
a. did iic p. didii t iic	

32. She postponedto Pokhara.

a. going b. gone

c. to go d. going

33. You will succeed if you.....hard.

a. works

b. work

c. will work

d. had worked

34. I would rather...drink coffee than tea. a. don't b. not

c. didn't d. hadn't

35. She acts as through he... acting classes.

a. takes

b. took

c. had taken

d. is taking

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

Very closely associated with the beauty of the mountains are some special emotions that the peaks provoke. The companionship provided by climbing together is almost universally value. Lonely through the mountain peaks are, the teams of mountaineers who climb them find an developing between them. The friendship established in the mountains is lasting and irreplaceable walked the feather edge of danger with someone. When you have held his life at the end of a room he has later held yours, you have an almost impregnable foundation for friendship, for the deeper from sharing failure as well as success, danger as well as safety.

Questions:

- 36. The friendship established during mountain climbing is
 - a. lasting and irreparable
 - b. like the friendship in modern societies
 - c. born out of solitude
 - d. inspired by the beauties of nature
- 37. Real friendship is born when people share about their
 - a. failures

b. success

c. dangers

d. 1, 2, and 3 together

- 38. When you have walked the feather edge of danger with someone.
 - a. You will meet him at the party afterward
 - b. You will have really appreciated the beauty
 - c. You will get tired easily
 - d. You will have an irreplaceable foundation for a friend.
- 39. The word 'impregnable' implies
 - a. That which cannot be overcome or taken by force.

- b. That which exhibits a lot of strength.
- c. That which last forever.
- d. That which is very impressive.
- 40. "Walked the feather edge of danger with someone" means
 - a. Walked on feathers with someone.
 - b. Walked on someone on the edge of danger.
 - c. Walked together with feather-like steps
 - d. Walked where the dividing line between danger and safety.

Group B [Mathematics]

- 41. If n(A) = 50, n(B) = 30, n(U) = 70 and $n(A \cap B) = 15$ then $n(A \cap B)$ is equal to d. 60 a. 45 b. 50 c. 55
- 42. Set of natural number is

a. Finite set

b. Infinite set

c. Null set

d. Singleton set

43. If n(A) = 26, n(B) = 32, then maximum value of $n(A \cup B)$ is

a. 26 b. 58 c. 32

44. The Marked Price of an article is Rs. 8500. If a discount of 10% is allowed the selling price

a. 7550

b. 7650

c. 7750

d. 7850

45. If £ 7= \$ 11 and \$ 2= Rs. 213, then how many pound (£) can be exchange for Rs. 117150?

a. 750 c. 700 b. 650 d.850

- 46. A mobile is sold for Rs. 11000, with a profit of Rs. 1000, then the percentage profit is b. 10% c. 12% d. 14%
- 47. Area of an equilateral triangle with each side

a. $\frac{\sqrt{3}}{2}a^{3}$ c. $\frac{\sqrt{3}}{4}a$

b. $\frac{\sqrt{3}}{2}a^{2}$ d. $\frac{\sqrt{3}}{4}a^{2}$

- 48. Area of triangle with sides 4cm, 5cm, 7cm is a. $7.8cm^2$ b. $8.8cm^{2}$
 - c. $9.8cm^2$

 $d. 10.8cm^2$

49. Radius of cylinder is 7 cm height is 12 cm then it's volume is

a. $1848cm^3$

b. $1748cm^3$

 $c.1648cm^3$

d. 1548cm³

50. Total surface area of a hemisphere having radius 7 cm is

a. $450cm^2$

 $b.460cm^2$

 $c.462cm^{2}$

 $d.472cm^2$

- 51. If the volume of a cone is $3696 cm^2$ and radius of the base is 14cm then height of the cone is
 - a. 16cm

b.17cm c. 18cm d.19cm

- 52. If $3^{2x} 9 = 0$ then the value of x is equal to d.9
- 53. The value of $\left(\frac{27}{8}\right)^{\frac{1}{3}} \div \left(\frac{9}{4}\right)^{\frac{1}{2}}$ is c. 2 d. -2
- 54. The two lines x y = 4 and 2x y = 16 are a. parallel b. perpendicular c. intersecting d. non-intersecting
- 55. The sum and difference of two positive numbers are 15 and 5 respectively, then the numbers are
 - a. 14, 1 b. 11, 4 d. 10, 5 c. 12, 3
- 56. A number is twice the other. If their sum is 30 then the numbers are a. 10,20 b. 25,5 c. 12,18

d. 17, 13

- 57. If the sum of squares of two consecutive even numbers is 100, then the numbers are b. 4, 6 c. 6, 8 d. 8, 10
- 58. If 17 is subtracted from a square of a number the result is 152, then the positive number is b. 14 c. 12
- 59. The sum of first 20 positive numbers is b. 175 c. 200 d. 210
- 60. The fifth term of the sequence $\frac{1}{2}, \frac{4}{5}, \frac{7}{8}, \dots$ a. $\frac{11}{12}$ b. $\frac{12}{13}$ c. $\frac{13}{14}$ d. $\frac{14}{15}$ 61. If f(x) = 2x + 3 then f(3) is equal to
- b. 3 c. 8
- 62. Sum of the functions $\sin(\pi) + \cos(\pi)$ is equal to
- a. 6 b. 3 c. 8 63. One factor of the polynomial $x^3 - 4x^2 + x +$ 6 is a. (x + 1)b.(x + 2)
- d.(x + 4)c.(x + 3)64. Sum of the infinite series $1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \dots$ is b. 3 c. 1
- 65. Sum of squares of first 5 natural numbers is b. 52 c. 53
- 66. Top of tree which is at a distance of 45 meter makes an angle of 45° to the observer, then the height of the tree is
- b. 50m c. 55m d. 60m a. 45m 67. If two lines are perpendicular with each other then the product of their slope is b. -1 d. -2 a. 1
- 68. (2, 1) and (2, 5) are two points in a plain then the distance between two points is a. 1 b. 2 c. 3 d. 4

- 69. Equation of a straight line which is parallel to y- axis and passes through the point (3, 0) is a. X = 3b. x = -3c. y = 3d. y = -3
- 70. Single equation represented by two straight lines x = 2v and 2x = v is a. $2x^2 - 3xy + 2y^2 = 0$ b. $x^2 - 3xy + 2y^2 = 0$ c. $2x^2 - xy + 2y^2 = 0$ d. $2x^2 - 3xy + y^2 = 0$
- 71. Diameter of a circle subtend an angle at the circumference which is always a. 45 degree b. 60 degree c. 90 degree d. 180 degree
- 72. Angle subtended by an arc at the center of a circle and at the circumference are related as a. Angle at the center is double of the angle of the circumference
 - b. Angle at circumferences is double of the angle at the center
 - c. Both the angles are equal
 - d. There is no relation between them
- 73. A parallelogram and a triangle standing on the same base and between the same parallel
 - a. Both are equal in area
 - b. Area of the parallelogram is double of the area of triangle
 - c. Area of the triangle is double of the area of parallelogram.
 - d. Area between them can't be compared
- 74. Sum of the four angles of a cyclic quadrilateral is
 - a. 90 b. 180 c. 270 d. 360
- 75. In the adjoining figure, PT is tangent, center O and angle OPT is 140°, then the value of x is



- b. 80° c. 50° d. 25° a. 40°
- 76. In the adjoining figure, X is the center of the circle and the given angle is 30°, then the value of y is



- a. 30° b. 40° c. 50°
- d. 60°
- 77. $A = \begin{bmatrix} 2 & 3 \\ 1 & 1 \end{bmatrix}$, then inverse of matrix A is
- 78. Determinant of singular matrix is b. 1 c. -1 d. 2
- 79. What is the value of $tan90^{\circ}$?

 - b. 1
- d. ∞
- 80. Of a group of 120 students, 80 takes mathematics and 62 takes statistics. If 20 students neither if two, the number of students taking both subjects are
 - a. 50
- b. 42
- c. 52 d. 55
- 81. -5 < x < 9 can be written in the absolute value sign as: b. |x - 2| < 7
 - a. |x 2| < 5
- c. |x 2| < 9
- d. |x + 2| < 5
- 82. If the relation $R = \{(1,2), (2,3), (3,4), (4,5)\}$ then its range is,
 - a. $\{2, 3, 4, 5\}$
- b. {1, 2, 3, 4}
- c. $\{1, 2, 3, 5\}$
- d. {1, 3, 4, 5}
- 83. The radius of the circle $x^2 + y^2 = 25$ is equal
 - a. 4
- c. 5 d. 9
- 84. The value of $2\sqrt{128} + \sqrt{162}$ is, a. $25\sqrt{2}$

b. 3

- b. $4\sqrt{3}$
- c. o

- d. 60
- 85. How many stones each of area 22 cm square are required for paving a courtyard 5.5 m long and 4 m wide?
 - a. 60000
- b. 40000
- c. 20000
- d. 10000
- 86. The commission of Rs. 5,600 at the rate of 5% is
 - a. Rs. 280
- b. Rs. 360
- c. Rs. 560
- d. Rs.144
- 87. The discount of marked price is Rs. 5,800 is the amount Rs. 696 then the discount percent is.
 - a. 12%
- b. 20%
- d. 38%
- 88. If $b^2 4ac = 0$ then the roots of $ax^2 + bx +$ c = 0 are:

- a. equal
- b. not exist
- c. rational
- d. imaginary
- 89. Which of the following is correct?
 - a. A. M = ab
- b. $H. M = \frac{2ab}{a+b}$
- c. $H.M = \frac{a+b}{2}$
- d. none of these
- 90. Limit of function $\lim_{x\to 0} \frac{\sin(x)}{x}$ is equal to
 - a. 0 b. 1
- d. Not exists

General Knowledge $(10 \times 1 = 10)$

c. -1

- 91. What is the full form of WWW?
 - a. Well Wired Work b. World Web Wide
 - c. World Wide Web
 - d. Word Windows Work
- 92. Which is not a input device?
 - a. Mouse
- b. Light Pen
- c. Printer
- d. Scanner
- 93. The day before the day before yesterday is three days after Saturday is,
 - a. Friday
- b. Thursday
- c. Wednesday
- d. Sunday
- 94. A and B are brothers, C and D are sisters A's sons is D's brother. How is B related to C?
 - a. Father
- b. Brother d. Uncle
- c. Grandfather
- 95. What is the area of Nepal? b. 147,316 km²
 - a. 147,516 km² c. $147.416 \, km^2$
- d. 147.616 km²
- 96. Who is the author of Palpasa Cafe?
 - a. Amar Neupane b. Buddhi Sagar
 - c. Narayan Wagle
 - d. Laxmi Prasad Devkota
- 97. How many total teams are going to participate in FIFA World Cup 2022?
 - a. 34
- b. 31
- c. 35 98. What temperature is water the dense?
 - a. 3.98° c. 3.70°
- b. 3.76° d. 3.50°
- 99. The famous Shashwat Dham Temple is situated in,
 - a. Tanahun
- b. Makawanpur
- c. Nawalparasi 100. Which is the first WiFi-free district of Nepal?
 - d. Gorkha
 - a. Parsa c. Kaski
- b. Darchula d. Myagdi

11. Prem is on holiday. He to Ilam.

12. The wh. question of "She dances well" is

b. has gone

d. has been going

a. has go

a. Who dances?

b. Why does she dance?

c. went

c. How does she dance? Tribhuvan University Faculty of Humanities and Social Sciences d. How does she dance? Bachelor of Arts in Computer Application 13. I haveheadache. Program (BCA) b. a a an **Entrance Examination 2023** d. none of above c. the Full Marks: 100 14. I wish I BCA entrance exam. Time: 2 hrs. a. pass b. can pass Attempt all questions: c. would pass d. will pass Group A Grammar $(40 \times 1 = 40)$ 15. What is the passive voice of 'Nadine Gordiner Circle the correct answer from among wrote The Conservationist. the given options (Multiple Choice a. The Conservationist was written by 'Nadine **Questions**) Gordimer. He asked, "What is your name?" b. The Conservationist has been written by a. He asked what my name is. 'Nadine Gordimer. c. The Conservationist written by 'Nadine b. He asked what my name was. Gordimer. c. He asked what my was my name. d. The Conservationist was wrote by 'Nadine d. He asked what were my name. Gordimer. If I had met him, Ihim easily. 16. the hard labor, she was successful. a. would recognize b. because of a. because b. would have recognize d. despite c. although c. would have recognized 17. As soon as he opened the fridge, he some d. recognizes oranges. My parents always make mehomework. a, had seen h saw a. to do b. do c. done d. did c. has seen d. sees The misspelled word is...... 18. The driver and mechanic intelligent b. recommendation a. separate enough to handle the problem. c. accommodation d. anxietie a. are Nobody was absent in the exam,? d. has c. have a. weren't they b. were they 19. He is weak, and he is still in bed. He has not d. wasn't he c. was he stopped medicines...... She looks as if...... a. either b. neither a. she is an actress b. actress c. either or d. neither nor c. famous d. acting 20. It was raining very...... The actress performed well. The word 'well' is a. heavy b. heavily c. with heavy d. with heavily a, verb b. noun 21. Which one is correct? d. adverb c. adjective a. I visit him in the supermarket sometimes. School education should enhance creativity. b. I visit him sometimes in the supermarket. The word 'creativity' is a...... c. I visit sometimes him in the supermarket. a. concrete noun d. I sometimes visit him in the supermarket. b. abstract noun 22. Travelling to the remote places..... important c. collective noun because it is adventurous. d. countable noun a. is b. are In the word punishment, the 'ment' is..... c. was d. were a. Suffix b. Prefix 23. The word resemblance means...... c. Root word d. New word a. lasting only for a short time 10. He has been teaching..... a long time. b. the state of being alike b. Since a. For c. victory over a place or people by use of d. at c. in military force

b. did not enjoy

d. enjoyed

b. interested

d. liquid that is believed to cure all ills

24. I went to see the film, but I....it.

25. Are you in technical subject?

a. do not enjoy

a. interesting

c. has not enjoyed

Old Question For BCA Entrance Preparation next, for we have no shared experience to talk d. all of them c. interest 26. I'll tell your parents what you did. The about." Some of that privatization is now language function in this sentence is...... breaking down in the United State because of widespread use of the internet to circulate a. Deciding b. Threatening syllabi and to publish student course c. Predicting a future action evaluations. In the UK, since the Dearing d. Promising Report of 1997, centralized (and much hated) 27. Everyone..... problems in their life. teaching assessment requirements instituted a. has b. have by the Labor government and the Institute for Learning and Teaching (ILT) have made c. had d. has had 28. Collin studied Science reluctantly due to her teaching in higher education very public, at the father's pressure. It means cost of a great deal of bureaucracy and a. Collin was eager to read Science. regimentation. **Questions:** b. Collin was not eager to read Science. 36. What is the problem of teaching according to c. Collin was eager to read Science for father d. Collin was eager to read not Science but Palmer? a. Teaching as public profession 29.the fact that he is an octogenarian; he still b. Teaching as private profession leads an active life. c. Teaching as dream a. however d. Teaching as anxiety b. although c. in spite of d. because 37. According to passage, teachers prefer to 30. You look tired. You.....to the bed. a, teach in isolation a. can go b. should go b. teach in collaboration with other teachers c. will go c. teach sharing experiences d. may 31. The monkey has leg hurt. d. teach in semester class a. its b. it's 38. The privatization is now breaking down in the United State because of...... c. its' 32. That's the house I was born. a. Internet b. online classes b. where c. higher education d. new syllabus a. there c. that d. which 39. The word 'rarely' means 33. Krishna could not the branch off the tree. a. always b. sometimes a, break b. brake c. seldom d. never c. broke d. breek 40. 'We' of the fourth line of the passage refers 34. 'The Selfish Giant' is a short story for children to..... written by b. Surgeons a. Lawvers a. Oscar Wilde b. Leo Tolstov c. Teachers d. All of them c. Chinua Achebe d. R.K. Narayan 35. Why are you bringing that argument now? b. into 41. If n(A)=30, n(B)=50, n(U)=60 and a. up c. to d. about Read the passage and then choose the equal to best answer to each question that a. 45 follows. (Q. 36 to 40) c. 55 b. 30

But it is not always easy to find out what our colleagues are doing behind those closed classroom doors. Ironically, according to Parker J. Palmer, "Teaching is perhaps the most privatized of all the public professions. Though we teach in front of students, we almost always teach solo, out of collegial sight - as contrasted with surgeons or lawyers, who work in the presence of others who know their craft well. When we walk into our workplace, the classroom, we close the door on our colleagues. When we emerge, we rarely talk about what happened or what needs to happen

Group B [Mathematics $50 \times 1 = 50$]

n(AUB)=55 then sum of n(A - B) and n(B - A)is b. 50 42. The sum of natural numbers from 1 to 20 is a. 20×21 b. 19×21

c. $\frac{1\times20}{}$ d. 200

43. If n(A)=26 and n(B)=32 then the maximum value of $n(A \cap B)$ is

a. 26 b. 58 b. 32 d. 6

44. For some integer n, which of the following form is always an odd integer?

a. N c. 2n d. 2n+1

45. The range of the function $f(x) = \sqrt{(x-1)}$ is

a. [1,∞)	b. (−∞, +o
c. (−1,∞)	c. [0, ∞)

46. To exist infinite sum of the geometric series its ratio should be

a, less than o b, less than -1

d. greater than 1

47. The complement of an angle is 20° (20 degrees) less than 4 times the angle, then the angle is

a. 38 b. 90 c. 22 d. 70

c, between 1 and -1

48. If the quadratic equation is $x^2 + x + 1 = 0$ then the value of x=.....

a.
$$\frac{-1\pm i\sqrt{3}}{2}$$
 b. $\frac{-1-i\sqrt{}}{2}$ c. $\frac{-1\pm i\sqrt{2}}{2}$ c. $\frac{-1+i\sqrt{}}{2}$

49. A function is defined as $f(x) = \frac{3x+1}{4}$ then the inverse of this function if it exists is

a.
$$\frac{4x-1}{3}$$
 b. $\frac{4x+1}{3}$ c. $\frac{3x-1}{4}$ d. $\frac{3x+1}{4}$

50. One factor of the polynomial $x^3 - 4x^2 + x + 6$ is (x-2) then the two other factors are

a.
$$(x+1)(x-3)$$

b. $(x+2)(x-2)$
c. $(x+3)(x-1)$
d. $(x+4)(x+1)$

51. The sum of the infinite series $1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{$

a. 4 b. 3 c. 2 d. 1 52. The sum of cubes of the first 6 natural numbers is

a. 661 b. 551 c. 441 d. 331

53. A poll at a distance of 25 meters from the observer makes an angle of 60 degrees from its top. Then the height of the poll is

a. 25 b. $25\sqrt{3}$ c. $\frac{25}{2}$ d. $50\sqrt{3}$

54. Marked price of an article is Rs. 8500. If a discount of 10% is allowed the selling price

a. 7550 b. 7650 d. 7850 c. 7750

55. If £ 7= \$ 11 and \$2= Rs. 213, then how many pound (£) can be exchange for Rs. 117150? a. 750 b. 650

c. 700 d. 850

56. A mobile is sold for Rs. 11000, with a profit of Rs. 1000, then the percentage profit is... a. 9% b. 10%

c. 12% d. 14% 57. If 12 girls or 8 boys can do a piece of work in 3 days, how many days will be required for 4 boys and 6 girls to do the same work? a. 2 b. 4 d. 3 58. A single equation represented by two straight lines x = 2y and 2x = y is ... a. $2x^2 - 3xy + y^2 = 0$ b. $x^2 - 3xy + 2y^2 = 0$ c. $2x^2 - xy + 2y^2 = 0$ d. $2x^2 - 5xy + 2y^2 = 0$

59. Two angles subtended by an arc one at the center and the other at the circumference are

> a. The angle at the center is double the angle at the circumference.

b. The angle at the circumference is double the angle at the center.

c. The angle at the center is half the angle at the circumference.

d. The angle at the circumference is equal to the angle at the center.

60. If f(x) = 4x g(x) = x + 1 & fog(x) = 20 then the value of $x = \dots$

61. If two children are born in a family find the probability that both are girls

62. The value of
$$\tan 75^{\circ}$$
 is a. $\sqrt{3}$ b. $2 + \sqrt{3}$

c. $2 - \sqrt{3}$

63. Sum of 15 terms of an A. P. is 435 and the common difference is 4 then the first term is b. 3 c. 2

64. Which one is the same as log 8 a. $\log 4 + \log 2$ b. $\log 4 + \log 4$ c. 2 log 4 d. 4 log 2

65. If $A = \begin{pmatrix} 2 & 3 \\ -4 & -5 \end{pmatrix} B = \begin{pmatrix} 0 & -3 \\ 2 & 5 \end{pmatrix}$ then $(AB)^T =$ $a.\begin{pmatrix} 6 & -10 \\ 9 & -13 \end{pmatrix} \qquad b.\begin{pmatrix} 6 & 10 \\ 9 & -13 \end{pmatrix}$ $c.\begin{pmatrix} 6 & -10 \\ 9 & 13 \end{pmatrix} \qquad d.\begin{pmatrix} 6 & 0 \\ 9 & 3 \end{pmatrix}$

66. If vector \vec{a} and vector \vec{b} are defined as $\vec{a} =$ (0,3,4) and $b^{-} = (2,-2,0)$ then cosine of the angle between them is

a.
$$-\frac{3}{\sqrt{2}}$$
 b. $\frac{3}{\sqrt{2}}$ c. $\frac{3}{5\sqrt{2}}$ d. $\frac{3}{5\sqrt{2}}$

67. Harmonic mean between two numbers a and b

a. $\frac{a+b}{2ab}$ c. $\frac{2ab}{a+b}$

68. The sum of the first 10 odd numbers is b. 90 c. 125

69. The solution of the equation $x_2+1=0$ in a complex number system is,

a. 1 b. -1 $d. \pm i$

Old	Old Question For BCA Entrance Preparation					
70.	The next term of the sequence		a. identity	b. scalar		
	1,2,4,7,11,		c. symmetric	d. skew-symmetric		
	a. 15 b. 16 c. 17 d. 22	86.	Sum of the natural n	umbers $1^3 + 2^3 +$		
71.	If $f(x) = x^2 - 3x + 1 & f(2a) = 2f(a)$ then		$3^3 \dots + n^3$ is			
-	a=		$(n(n+1))^3$	$(n(n+1))^2$		
	a. $\frac{1}{\sqrt{2}}$ b. $-\frac{1}{\sqrt{2}}$		a. $\left(\frac{n(n+1)}{2}\right)^3$	D. $\left(\frac{1}{2}\right)$		
	, -		$C.\left(\frac{n(n+1)}{3}\right)^2$	$d_{\cdot} \left(\frac{n(n-1)}{n}\right)^2$		
	c. $\frac{1}{\sqrt{2}}$ or $-\frac{1}{\sqrt{2}}$ d. 1		` - /	` - /		
72.	If $x < 0$, then the value of $ x $ is equal to	87.	The fifth term of the			
	a. <i>x</i> b. – <i>x</i>		a. $\frac{11}{12}$ b. $\frac{12}{13}$	c. $\frac{13}{}$ d. $\frac{14}{}$		
	c. x^2 d. $-x^2$	88		er is 7 cm height is 3 cm		
73.	The two lines $3x + 2y = 5$ and $9x + 6y = 14$		then it's volume is	is / cm neight is 3 cm		
	have		a. 442 <i>cm</i> ³	b. $452 cm^3$		
	a. no solution b. unique solution		c. 462 <i>cm</i> ³			
	c. infinite solution d. two solution	80				
74.	When a point (3,4) is rotated by 90 degrees in	09.	If $b^2 - 4ac = 0$ then the roots of a. $ax^2 + bx + c = 0$ are:			
	anticlockwise direction and translated by a		a. real and equal			
	point (5, -2) the resulting point is		c. irrational			
	a. (1,1) b. (8,2)	00		ne air. The probability of		
	c. (-2,6) d. (0,1)	90.	getting odd numbers			
75.	If $2x^3 - 7x^2 + x + 10 = (x - 1)Q(x) + R(x)$			15		
	then the value of remainder $R(x)$ is equal to		a. $\frac{1}{3}$ b. $\frac{1}{2}$			
	a. 5 b. 6 c. 7 d. 9		c. $\frac{3}{4}$ d. 2			
76.	If $5^{x+3} = (25)^x$, then the value of x is			roup C		
	a. 1 b. 2 c. 0 d. 3			edge & IT] $10 \times 1 = 10$		
77.	If $x + y = 3 \& x^2 + y^2 = 5$, then the value of			language is often used for		
	xy is		web development?			
	a. 1 b. 2 c. 3 d. 453		a. Java	b. Python		
78.	If m_1 and m_2 are the slopes of the pair of lines		c. HTML			
	$ax^2 + 2hxy + by^2 = 0$ then the product of	92.	What does the abbre	viation "URL" stand for in		
	m_1 and m_2 is		the context of the internet?			
	a. $\frac{2h}{h}$ b. ab c. $a-b$ d. $\frac{a}{h}$		a. Uniform Resource	Locator		
70	In the general equation of circle $x^2 + y^2 +$		b. Universal Routing Language			
/9•	2gx + 2fy + c = 0 the radius of the circle is		c. Unique Resource Link			
			d. User Registration			
	a. (g,f) b. (f,g) c. $(-g,-f)$ d. $(-f,-g)$	93.		y which plants make their		
80	The value of o! Is		own food using sunli			
00.	a. o b1 c. 1 d. 2		a. Respiration	b. Photosynthesis		
	$x^2 - 9$		c. Digestion	d. Fermentation		
81.	The value of limit $\lim_{x\to 3} \frac{x^2-9}{x-3}$	94.	What is the largest m			
	a. o b1 c. 1 d. 2		a. Elephant	b. Blue Whale		
82.	Derivative of tan x with respect to x is			d. Rhinoceros		
	a. sin^2x b. cos^2x	95.		ecretary-General of the		
	c. $cosec^2x$ d. sec^2x		United Nations as of			
83.	A point in a three-dimensional space has its		a. Ban Ki-moon	b. Antonio Guterres		
	coordinate is (1,2,-2). The distance of this		c. Kofi Annan	d. Nikki Haley		
	point from the origin is	96.		vorld's highest peak, is		
	a. 5 b. 4 c. 1 d. 3		part of which mounta			
84.	A matrix A has its order 3×4 and matrix B has		a. Annapurna Range	0 0 0		
	its order 4×3 then the order of their product		c. Khumbu Himal	d. Dhaulagiri Range		
	AB is	97.		Sustainable Development		
	a. 3×3 b. 4×4			lobal framework aimed at		
	c. 4×3 d. 3×4			lobal challenges, including		
85.	If transpose of a matrix A is the matrix A itself			and climate change. How		
	then A is called	Ī	many SDGs are there	e in totai?		

then A is called

- a. 12
- b. 15
- c. 17
- 98. Which famous mountaineer from Nepal became the first person to climb Mount Everest without supplemental oxygen in 1980?
 - a. Tenzing Norgay
 - b. Pasang LhamuSherpa
 - c. Reinhold Messner
 - d. Junko Tabei
- 99. Who is the captain of the Nepal national football team as of September 2023?
 - a. Anil Gurung
- b. Kiran Chemjong
- c. Bharat Khawas

- d. Rohit Chand
- 100. In recent years, Nepal has been facing challenges related to the conservation of which endangered species?
 - a. Bengal Tigers
 - b. Snow Leopards
 - c. Red Pandas
 - d. Asian Elephants