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



a) no share at all

### **Tribhuvan University**

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

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

Full Marks: 100		Time: 2 hrs.

		Group A []	English	
Circle	the correct answer f	rom among the given	options (Multiple Ch	oice Questions)
1.	The danger of volcan	oes not to	be taken lightly.	
	a) must	b) might	c) has	d) have
2.	Ramesh	. here for the last sever	years.	
	a) worked	b) is working	c) has worked	d) works
3.	Supply the correct tag	g for the following state	ement.	
	Let us go,			
	a) shall we?	b) will we?	c) do we?	d) don't we?
4.	Two ladies had	hand bags stolen	at the Kathmandu Mal	11.
	a) its	b) her	c) their	d) they
5.	They are as lucky as			
	a) we	b) our	c) ourselves	d) us
6.	Sincere people abide	their promi	se.	
	a) by	b) of	c) at	d) on
7.	The new manager wi	ll his positio	on on August 30.	
	a) take off	b) take out	c) take over	d) take after
8.	Choose the correct al	ternative for underlined	d phrase in the given so	entence.
	He got <u>a Lion's share</u>	<u>e</u> of the profits.		

b) greater share of a things

	c) very small part	d) littl	e profit	
9.	There is someone in t	the room I	certainly heard a great	noise.
	a) and	b) but	c) for	d) so
10.	Neither of them	a problem.		
	a) anticipate	b) anticipates	c) have anticipated	d) are anticipating
11.	Choose the correct pa	assive voice for the following	lowing sentence.	
	We celebrate Democr	racy Day on Falgun se	ven.	
	a) Democracy Day is	celebrated on Falgun	seven by us.	
	b) Democracy Day w	as celebrated on Falgu	n seven by us.	
	c) Democracy Day ha	as been celebrated on F	Falgun seven by us.	
	d) Democracy Day ha	ad been celebrated on l	Falgun seven by us.	
12.	She is ob	edient student.		
	a) an	b) a	c) the	d) none of the above.
13.	Choose the correct ar	nswer from among the	given options.	
	I don't think I	be able to go.		
	a) will	b) should	c) can	d) could
14.	Choose the correct sin	ngle word for the grou	p of words given below	<i>v</i> .
	That which cannot be	divided.		
	a) indelible	b) indivisible	c) insoluble	d) indefensible
15.	Which of the following	ng words is an abstract	noun?	
	a) desk	b) fear	c) class	d) needle
16.	Which of the following	ng words does not have	e a suffix?	
	a) helpless	b) goodness	c) fearless	d) courage
17.	The opposite meaning	g of 'accepted' is,		
	a) liked	b) noted	c) provided	d) rejected
18.	Choose the word near	rest in meaning to 'emu	ılate'.	
	a) Imitate	b) Deny	c) Discuss	d) Reject
19.	Choose the correct sy	nonym for the underli	ned word in the follow	ing sentence.
	Raman is a <u>versatile</u>	boy.		
	a) bad	b) clumsy	c) gifted	d) lazy
20.	Select the correct anto	onym for 'segregation'.		
	a) appreciation	b) integration	c) cohesion	d) co-ordination
21.	Fill in the gap with th	e correct word from a	mong the given options	<b>.</b>
	The price of consume	er goodsincrea	sing.	
	a) are	b) is	c) were	d) has been
22.	Which of the following	ng sentences is incorre	ct in terms of subject v	erb agreement?
	a) Each of the womer	n owns her home.	b) All of the women of	own their own homes.
	c) Here are two wrene	ches and a hammer.	d) Here is a hammer a	and two wrenches.
23.		_	orrect use of comma (,)	?
		day I will never forget		
	b) Some people who	go to school, enjoy the	social life.	

	c) He was late	for dinner, we deci	ded to eat without him.		
	d) We were gla	d to see him, becar	use he had brought gifts.		
24.	Choose the par	t participate of the	verb <i>quit</i> .		
	a) quited	b) quit	c) quitting	d) has quit	
25.	Choose the cor	rect alternative from	m among the given options.		
	We spent a	evening toge	ether.		
	a) quite	b) quit	c) quiet	d) quitter	
26.	Which of the fo	ollowing words nee	eds capitalization?		
	a) winter	b) ocean	c) jewish	d) university	
27.			om among the given options.		
	He is occurred	cheat	ing.		
	a) for	b) of	c) on	d) in	
28.			ll in the gap in the following	sentence.	
	He is coming h	ere six o	o'clock.		
	a) upon	b) on	c) at	d) to	
29.	Select the corre	ect meaning of the	idiom in,		
	In the good boo	ok of			
	a) enjoying a p	leasant moment.	b) enjoying a fav	our of someone.	
	c) possessing a	good book for rea	ding. d) purchasing a g	good book.	
30.	Fill in the gap in the following sentence from among the given options.				
	I am	tired to go any furt	her.		
	a) to	b) too	c) so	d) not	
31.	Which is the co	orrect indirect spee	ch for the direct speech give	n below?	
	Hari says, "I aı	n very happy".			
	a) Hari says he	is very happy.	b) Hari says he was very	happy.	
	c) Hari said he	is very happy.	d) Hari said he was very	happy.	
32.	Select the inter-	rogative sentence f	from the given options below	V.	
	a) Shall I see yo	ou tomorrow?	b) He has studied Englis	h for a long time.	
	c) They won't b	pelieve you.	d) It will be dark soon.		
33.	Put the correct	verb form in the ga	ap below.		
	I tole	d you earlier if I ho	ad known.		
	a) would	b) would ha	ave c) had	d) should	
34.	Choose the righ	nt pronoun from th	e given alternatives in the fo	llowing sentence.	
	If everybody do	oes part,	the game should go smooth	ly.	
	a) his	b) her	c) his or her	d) their	
35.	Which of the fo	ollowing word is an	n adverb?		
	a) good	b) bad	c) well	d) melt	

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

Recent advances in science and technology have made it possible for geneticists to find out abnormalities in the unborn foetus and take remedial action to rectify some defects which would otherwise prove to be fatal to the child. Though genetic engineering 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. Which of the following is the same in meaning as in the word 'obliterate' used in the
passage?
a) Wipe out b) Wipe off c) Very Literate d) Remove
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.
According to the passage the question of abortion is,
a) hotly debated b) ignored c) unanswered d) undecided
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.
According to the author of the passage, the present state of knowledge about heredity has made geneticists.
a) reckless b) optimistic c) introspective d) arrogant
Group B [Mathematics]
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
Which one of the following value of 'n' gives the negative result on $n^2 - 15$ ?
a) 7 b) 5 c) 3 d) 4
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) $n(n + 4)$
What is the sum of first five prime numbers?

44.

36.

37.

38.

39.

40.

41.

42.

43.

	a) 18	b) 25	c) 26	d) 28
45.	If you save 1 paisa to is the total saving on		4 paisa the succeeding	g day and so on, then what
	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 fro that number?	m the cube of a numb	er and the result is 21.	, then what is the value of
	a) 2	b) 3	c) 4	d) 5
48.	If the product of two following?	o consecutive even nu	mber is 288, then wha	at are these numbers from
	a) 14, 12	b) 14, 16	c) 16, 18	d) 22, 24
49.	The total of ages of A	A and B is 3:5, if B is 8		what is the age of the A?
	a) 12 yrs.	b) 15 yrs.	c) 18 yrs.	d) 21 yrs.
50.		$ation x^2 - 6x + c = 0 is$		
	a) 3	b) 6	c) 8	d) 9
51.		lowing is true for the ro		-8x + 16 = 0?
	a) imaginary & unequ		onal & unequal	
52.	c) real & equal		l & unequal	ala column?
32.	a) 5	ler 5 x 3, then how man b) 3	c) 4	d) 15
53.	<b>'</b>	at is the value of $x + 7$ ?		u) 13
55.	a) 5	b) 7	c) 8	d) 13
54.	<b>'</b>	is the value of $\sqrt{(5x+)}$		
51.	a) 5	b) 6	c) 7	d) 8
	a) 3	,		<b>u</b> ) o
55.	What is the correct va	alue of $\frac{5^4 - 5^3}{4}$ .		
	a) 5 <sup>3</sup>	b) $\frac{1}{5}$	c) 5 <sup>4</sup>	d) $\frac{5}{4}$
56.	If $a^x = b$ , $b^y = c$ and $c$	$z^{z} = a$ , 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 va	lue of a and b?	
	a) 2	b) 3	c) 4	d) 5
58.	If $p + q = r$ , then wha	at is the average value of		
	a) $\frac{r}{3}$	b) $\frac{(p+q)}{3}$	c) $\frac{2r}{3}$	d) $\frac{r}{2}$
59.	What is the slope of t	the line whose equation	n is $2x - 4y = 9$ ?	
	a) 1	b) $\frac{1}{2}$	c) 2	d) 3
60.	Which one of the foll	lowing is correct for th	e acute angle of right a	angled triangle?
	a) complementary	b) supplementary	c) adjacent	d) equal

61.	There are 60 stude	ents in a class. If 60%	6 of them are girls, the	en how many boys in the class?
	a) 24	b) 36	c) 18	d) 40
62.	Last year Hari wa his height?	as 4 feet tall, and this	s year he is 5 feet tall	. What is the percent increase of
	a) 10%	b) 15%	c) 20%	d) 25%
63.	What is the differ	ence between $\frac{3}{5}$ of 8	0 and 30% of 80?	
	a) 12	b) 18	c) 24	d) 20
64.	The cost of 6 pen then what is the co		t of the 10 pencils. If	the cost of 4 pencils is Rs. 120,
	a) 100	b) 200	c) 300	d) 400
65.	If the cost of 7 kg	sugar is Rs. 210, ho	w much sugar can be	purchased for Rs. 330?
	a) 11kg	b) 12kg	c) 13kg	d) 14kg
66.	Ganga can read minutes?	48 pages per hour.	At this rate, how n	nany pages she can read in 80
	a) 60	b) 72	c) 48	d) 64
67.	Two numbers are	in the ratio of 6:7 an	d their sum is 117, the	en what are these numbers?
	a) 56, 58	b) 63, 54	c) 54, 63	d) 48, 56
68.	If $5:7 = 15:x$ , then	n what is the value of	x?	
	a) 18	b) 21	c) 24	d) 35
69.	If cost price of 8 p	pens and selling price	e of 10 pens is equal,	then what is loss percentage?
	a) 20%	b) 15%	c) 10%	d) 25%
70.	If the 20% discouprice?	ant is given on comp	puter book costing R	s. 300, then what will be selling
	a) Rs. 240	b) Rs. 220	c) Rs. 260	d) Rs. 250
71.	A watch is bough	t at Rs. 250 and sold	at Rs. 300, then what	is the profit percentage?
	a) 10%	b) 15%	c) 20%	d) 25%
72.	What is the popul	ation doubling time	if the population grow	th rate is 2% per anum?
	a) 60 yrs.	b) 50 yrs.	c) 40 yrs.	d) 30 yrs.
73.	What is the rate p	ercentage per anum t	that a sum of money t	rebles itself in 25 years?
	a) 2%	b) 4%	c) 6%	d) 8%
74.	What is the cardin	nal number of a vowe	el set $V = \{a, e, i, o, u\}$	}?
	a) 4	b) 5	c) 6	d) 7
75.	What is the minin	num value of $n(P \cap Q)$	)? When $n(U) = 100, 1$	n(P) = 70, and $n(Q) = 45$ ?
	a) 15	b) 55	c) 30	d) 45
76.	Which one of the	following is true for	prime number?	
	a) no factors	b) only one fact	-	etors d) more than two factors
77.	Which one of the	following interval no	otation is correct for {	$x:5 \le x \le 15\}?$
	a) [5, ∞]	b) [∞, 15]	c) [6, 14]	d) [5, 15]
78.	, , , ,	, , , ,	,	dded to 3 times its own number
	a) 6	b) 7	c) 8	d) 9

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

### Group C [General Knowledge]

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

	a) 2072 Asnoj 4	b) 2072 Asnoj	J 3	c) 2072 Asnoj 2	,	a) 2072 Asnoj 1	
92.	Who is known as "Fa	ther of Comput	ter"?				
	a) Charles Babbage	b) Bill Gates		c) Mark Zucker	berg	d) John V Neumann	
93.	Which one of the foll	lowing disciplin	ne is not	awarded by nob	le priz	ze?	
	a) Literature	b) Economics		c) Physics		d) Computer Science	•
94.	Which one of the following	lowing belongs	to SSD?				
	a) RAM	b) ROM		c) Cache Memo	ry	d) Mass Storage	
95.	Who won the FIFA V	World Cup 2018	3 held in	Russia?			
	a) England	b) Croatia		c) France		d) Germany	
96.	Which one of the following	lowing is not an	output	device?			
	a) OCR	b) Plotter		c) Monitor		d) Printer	
97.	What is the scientific	name of human	n?				
	a) Rana Tigrina	b) Homosepia	ın	c) Felis Catus		d) Rattus	
98.	Which one of the following	lowing is the de	epest riv	er of the Nepal?	•		
	a) Karnali	b) Koshi		c) Mahakali		d) Gandaki	
99.	Who was the first pri	me minister of	Nepal?				
	a) Janga Bahadur Ra	na	b) Matı	ika Prasad Koir	ala		
	c) Bhimsen Thapa		d) Matl	nabar Sing Thap	a		
100.	Who is the writer of	the Nepal novel	"Basain	."?			
	a) Lil Bahadur Kshet	ri	b) Ram	lal Joshi			
	c) Gopal Prasad Rim	al	d) Loke	endra Bahadur C	hand		

**Best of Luck** 

#### Set II



# **Tribhuvan University**

# Faculty of Humanities & Social Sciences OFFICE OF THE DEAN 2018

# Bachelor in Computer Applications (BCA) <u>Entrance Exam</u>

Full Marks: 100 Time: 2 hrs.

#### Group A [English]

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

2.	When did you on the last stage of your journey?			
	a) set to	b) set out	c) set up	d) set off
2.	Jenny always	when you least exp	pected her.	
	a) showed up	b) shut up	c) showed off	d) shut down
3.	It is a 14 hour flight,	so it will give me a cha	ange my re	ading.
	a) catch up on	b) catch on	c) catch up with	d) catch out
4.	Mrs. MacDonald is h	aving the old cottage.		
	a) do for something	b) do without	c) do over	d) do with
5.	The new commercial	very well	L.	
	a) gets away	b) gets across	c) gets about	d) gets along
6.	I'm still trying to	common cold.		
	a) shake off	b) shake up	c) shack up	d) show off
7.	Take up a brisk walk	to a good ap	opetite.	
	a) work out	b) work up	c) wrap up	d) write off
8.	The synonym of "ame	eliorate" is:		
	a) finish	b) appreciate	c) improve	d) affluent
9.	Which one is appropr	riate synonym of "squa	lor".	
	a) miser	b) indolent	c) hinder	d) shabby
10.	Give an exact synony	m of "hallowed".		
	a) mellowed	b) sacred	c) decayed	d) mixed

11.	The antonym of	"cynical" is:		
	a) rustic	b) friendly	c) hostile	d) simple
12.	Give the antonyr	n of "corpulent".		
	a) bulky	b) skinny	c) obese	d) fat
13.	Killing of one's s	ister is called	•••	
	a) regicide	b) genocide	c) sororicide	d) suicide
14.	Killing of snake	is called:	<b>A</b>	
	a) apicide	b) avicide	c) herpeticide	d) filicide
15.	Badminton is pla	yed on a court whereas	boxing in a	
	a) court	b) track	c) ring	d) arena
16.	A nun lives in a	whereas a he	ermit in a	
	a) prison, sty	b) convent, hermit	age c) asylum, stable	d) cottage, inn
17.	The bell	but bracelets jingles		
	a) tolls	b) jingles	c) whistle	d) rattles
18.	What is the oppo	site of "pompous"?		
	a) humble	b) rough	c) cheap	d) unique
19.	One who abando	ns his religious faith is	a/an	
	a) apostate	b) atheist	c) secular	d) credulous
20.	Repetition or wri	ting word for word is p	utting 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 a	gree me on	this issue.	
	a) to	b) on	c) with	d) for
23.	I am angry	your rude manner	but not angry	. you for not helping me.
	a) at, with	b) with, with	c) to, with	d) to, to
24.	I know you are lo	ookinga jol	).	
	a) for	b) at	c) with	d) by
25.	This magazine is	not useful	. me as I have no taste in	music debates.
	a) to	b) with	c) for	d) by
26.	She was fined	parking her	car in a no parking area.	
	a) for	b) on	c) in	d) at
27.	I'm interested in	cricket but I'm not very	goodit.	
	a) in	b) with	c) at	d) about
28.	What is the mean	ning of the phrase "ad ir	nterim"?	
	a) at pleasure	b) at will	c) to the extreme	d) for the time being
29.	A government co	ontrolled by the rich is:		_
	a) oligarchy	b) aristocracy	c) plutocracy	d) democracy
30.	We must be early	y we won't	get a seat.	
	a) otherwise	b) vet	c) however	d) but

	a) treats	b) works	c) watches	d) sleeps
32.	Fit like glove	••••		
	a) fits very well	b) loosely fits	c) matches	d) dresses
			A	
33.	Time will tell.			
	a) no time left			
	b) old fashioned idea	ıs		
	c) whether decisions	or actions in the prese	nt were right or not	
	d) future will show			
34.	A night in the town i	s full of		
	a) tasks		b) green lights	
	c) fun and entertainn	nent	d) creativity	
35.	Dressed up to the nir	nes means.		
	a) very happy spirit		b) dressed in one's be	est clothes
	c) a routine dress		d) a small chance to l	oring 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."

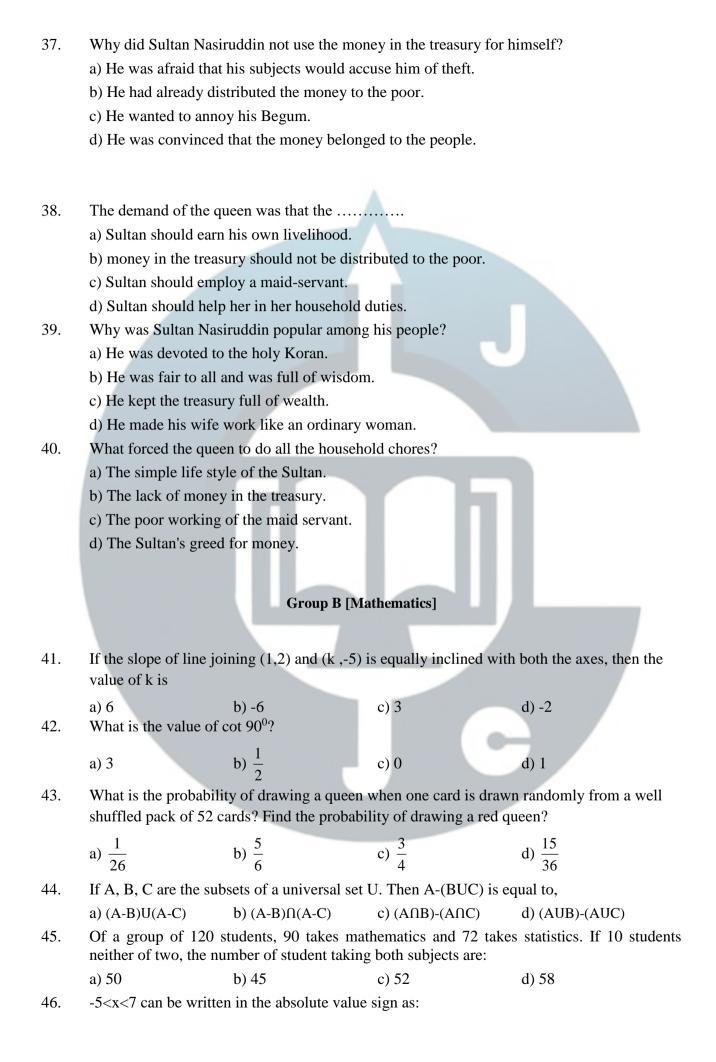
One day while cooking food, she burnt her fingers. She started weeping. On seeing her weeping, Sultan Nasiruddin asked her, "Begum, what is the matter?" The queen started grumbling. "See, I have burnt my fingers. In spite of my being a queen, I have to work like other poor women. Why don't you employ 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.

- 36. The queen got annoyed because ......
  - a) she had burnt her fingers.

31.

Work like a Trojan.

- 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.



	a) $ x-1  < 7$	b) $ x-1  < 6$	c) $ x-1  < 2$	d) $ 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, 5}	d) {1, 3, 4, 5}	
48.	The value of tan 180				
	a) 1	b) -1	c) 0	d) ∞	
49.	$1^2 + 2^2 + 3^2 + \dots + n^2$ is equal to,				
	a) $\frac{n(n+1)}{n}$	b) $\frac{n(n+1)(2n+1)}{6}$	c) $\{\frac{(n+1)}{2}\}^2$	d) None of the above	
				,	
	$\left(\begin{array}{c}0\end{array}\right)$	$\begin{bmatrix} 5 & -6 \\ 0 & 2 \\ -2 & 0 \end{bmatrix}$ , then matr			
50.	If a matrix $A = -5$	0 2, then matr	ix A is known as		
	( 6	$-2 \ 0$			
	a) Symmetric Matrix		b) Skew-Symmetric	Matrix	
	c) Diagonal Matrix		d) Triangular Matrix		
51.		$ext{le } x^2 + y^2 = 9  ext{ is equal}$			
	a) 4	b) 3	c) 5	d) 9	
52.	The value of $2\sqrt{128}$	$+\sqrt{162}$ is,			
		b) $4\sqrt{3}$	c) 0	d) 60	
53.	If $A = \begin{bmatrix} 1 & 2 \\ 2 & 1 \end{bmatrix}$ , then to	the value of $A^2 - 2A -$	5I is equal to,		
	a) 1	b) -1	c) 2	d) 0	
54.	What is the half of qu		-	1) 00	
<i></i>	a) 200	b) 100	c) 50	d) 90	
55.	Half percent, written		a) 0 005	1) 0 05	
56	a) 0.2	b) 0.02	c) 0.005	d) 0.05	
56.	a) 12%	b) 13%	ns hence is Rs. 122. Th c) 14%	d) 15%	
57.		,	,	des is increased by 20% is:	
37.	a) 40%	b) 42%	c) 44%	d) 46%	
58.	,	ich other at O. If AD =		<i>a)</i> 1070	
	a) 5.9 cm	b) 6 cm	c) 4.8 cm	d) 7 cm	
59.	The compound interes		per annum is Rs. 434	7. 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 v	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 gethe rate of 10 for Rs.		lot pens bought for Rs.	96 per dozen were sold at	
	a) 13%	b) 20%	c) 4%	d) 12.5%	
62.	What is the value of	$\cos^2 30^0 - \sin^2 30^0?$			

63.	How many stones each of area 0.16 cm square are required for paving a courtyard long and 4.8 m wide?			r paving a courtyard 5.5 m	
	a) 60	b) 100	c) 50	d) 165	
			A		
64.	Which one is the fo	ormula for area of equil	ateral triangle?		
	a) $\frac{\sqrt{3}}{4a^2}$	b) $\frac{1}{2} \times b \times h$	c) $\sqrt{(s-a)(s-b)(s-b)}$	-c) d) None of these.	
65.	<del>4</del> 4				
05.	a) Rs. 196	f Rs. 5,600 at the rate of b) Rs. 440	c) Rs. 360	d) Rs. 1,000	
66.	<i>'</i>	,	· In the second second second		
00.	The discount percent of marked price is Rs. 5,800 and discount amount is Rs. 696 then t discount percent is,				
	a) 12%	b) 20%	c) 5%	d) 38%	
67.	What is the tax rate	e if original price is Rs.	2,000 and selling price	is Rs. 2,400?	
	a) 20%	b) 17.39%	c) 35%	d) 10%	
68.	The sum of the age	es of father and his sor	n is 52 years. Eight yea	ars ago the father was eight	
times as old as his son, the present age of son is,					
	a) 10 years	b) 20 years	c) 12 years	d) 15 years	
69.		om a square of a numb			
	a) 5	b) 4	c) 6	d) 3	
70.		ircle $x^2 + y^2 - 12x - 4y$			
	a) 18	b) 7	c) 10	d) 2	
71.	\(\frac{1}{2}\)	The system of linear equation will be consistent and independent if they have,			
	a) exactly one solu	tion	b) more than one so	lution	
70	c) no solution	1 1 11	d) none of these	~1.) · 1	
72.		numbers on the real lin			
	a) left open interva	.1	b) right open interval	П	
72	c) closed interval d) open interval Let $f:R \to R$ and $g:R \to R$ be defined by $f(x) = 2x^2 - 3$ , $g(x) = 3x + 2$ . Then the composite				
73.	functions $g_0f(x)$ is,	K→K be defined by I(	(x) - 2x - 3, g(x) = 3		
	a) $9x + 8$	b) $2x + 2$	c) $2x + 1$	d) $6x^2 - 7$	
74.	A square matrix A	is said to be singular if	its determinant is equa	l to,	
	a) 1	b) 0	c) -1	d) none of these	
75.	The system of equa	ations 4x - 3y = -6, -4x	+2y = 16 is,		
	a) consistent and dependent		b) inconsistent and i	b) inconsistent and independent	
	c) inconsistent and dependent d) consistent and independent				
76.	Ratio of 2 km to 60	00 m should be,			
	a) 2:7	b) 2:8	c) 2:3	d) 10:3	
77.	In $a:b=c:d$ , then	b and c are called,			

a)  $\frac{1}{2}$  b)  $\frac{\sqrt{3}}{2}$  c)  $\frac{1}{\sqrt{3}}$  d)  $\frac{-1}{2}$ 

	a) antecedent	b) extreme	c) consequent	d) mean	
78.	If $b^2 - 4ac < 0$ then the roots of $ax^2 + bx + c = 0$ are:				
	a) equal	b) rational	c) irrational	d) imaginary	
79.	A polygon having 10	sides is called,			
	a) decagon	b) heptagon	c) quadrilateral	d) hexagon	
			A		
80.	Linear equation is als	o known as,			
	a) simultaneous equation		b) second degree equation		
	c) first degree equation		d) zero degree equation		
81.	Two straight lines in same plane which never meet are called,				
	a) angles	b) transversal lines	c) vertex	d) parallel line	
82.		ed by $2x - 1$ , then rem			
	a) $\frac{35}{16}$	b) $\frac{-35}{16}$	c) -9	d) 3	
0.0	10	10			
83.			rmonic means between		
0.4	a) in G.P	b) in A.P	c) real numbers	d) in H.P	
84.				y selling that for Rs. 74 is	
0.5	a) 45%	b) 48%	c) 49%	d) 50%	
85.			d them at 4 for Rs. 6, f	•	
96	a) 12%	b) 8%	c) 6%	d) 10%	
86.	Which of the following				
	a) $A.M = ab$	b) $G.M = \frac{2ab}{a + b}$	c) $H.M = \frac{a+b}{2}$	d) none of these	
87.	a) A.M = ab b) $G.M = \frac{2ab}{a+b}$ c) $H.M = \frac{a+b}{2}$ d) none of these By giving a discount of 10% on the marked price of Rs. 1,100 of a mobile phone a dealer				
07.	gains 10%, then the c		a price of Rs. 1,100 o	i a moone phone a dealer	
	a) Rs. 950	b) Rs. 900	c) Rs. 1,000	d) Rs. 1,050	
88.	Rama purchased a ta	ble in Rs. 1,260 and d	lue to some damage or	n its top, she had to sell it	
	for Rs. 1,197,				
	a) 20%	b) 15%	c) 10%	d) 5%	
89.		•		r Rs. 11, then the profit is,	
	a) 18%	b) 19%	c) 20%	d) 21%	
	If $A = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$ , the				
90.	If $A = \begin{bmatrix} 0 & 1 & 0 \end{bmatrix}$ , th	en A is			
	$\begin{pmatrix} 0 & 0 & 1 \end{pmatrix}$				
	a) unit matrix	b) singular matrix	c) symmetric	d) all of them are true	
Group C [General Knowledge]					
0.1					
91.	The famous Muktina	th Temple is situated in	1,		

b) Makwanpur

a) Tanahun

c) Mustang

d) Gorkha

92.	The longest river in the world is,				
	a) Nile	b) Ganga	c) Amazon	d) Indus	
93.	In computer abbreviation of 'OS' usually means?				
	a) Order Significance	;	b) Open Software		
	c) Operating System		d) Optical Sensor		
94.	What day was yesterday, if Monday is in two days?				
	a) WEdnesday	b) Thursday	c) Friday	d) Saturday	
95.	Which district lie in s	state number 3?			
	a) Helambu	b) Birgunj	c) Tanahun	d) Lumbini	
96.	How many bits equal	to one byte?			
	a) 4	b) 16	c) 8	d) 32	
97.	Who won the FIFA V	Who won the FIFA World Cup 2018?			
	a) Croatia	b) Russia	c) Argentina	d) France	
98.	What is the term alphabetically?	to ask the computer	to put information	in order numerically or	
	a) Crop	b) Report	c) sort	d) Record	
99.	How many districts are there in Nepal?				
	a) 75	b) 73	c) 77	d) 76	
100.	Which one of the following is not a part of the internet?				
	a) WWW	b) E-mail	c) CDROM	d) HTTP	

Best of Luck