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



Tribhuvan University

Faculty of Humanities & Social Sciences OFFICE OF THE DEAN 2018

Bachelor in Computer Applications (BCA) Entrance Exam

Full Marks: 100 Time: 2 hrs.

Group A [English]

Circle	the correct answer fi	rom among the	given options (Multiple Ch	oice Questions)		
1.	The danger of volcanoes not to be taken lightly.					
	a) must	b) might	c) has	d) have		
2.	Ramesh	here for the las	t seven years.			
	a) worked	b) is working	c) has worked	d) works		
3.	Supply the correct tag	g for the following	ng statement.			
	Let us go,					
	a) shall we?	b) will we?	c) do we?	d) don't we?		
4.	Two ladies had hand bags stolen at the Kathmandu Mall.					
	a) its	b) her	c) their	d) they		
5.	They are as lucky as .					
	a) we	b) our	c) ourselves	d) us		
6.	Sincere people abide their promise.					
	a) by	b) of	c) at	d) on		
7.	The new manager wil	1 his	position on August 30.			
	a) take off	b) take out	c) take over	d) take after		
8.	Choose the correct als	ternative for und	lerlined phrase in the given se	entence.		
	He got <u>a Lion's share</u>	of the profits.				
	a) no share at all		b) greater share of a things			

	c) very small part	d) littl	le profit	
9.	There is someone in	the room I	certainly heard a great	noise.
	a) and	b) but	c) for	d) so
10.	Neither of them	a problem.		
	a) anticipate	b) anticipates	c) have anticipated	d) are anticipating
11.	Choose the correct p	assive voice for the fol	lowing sentence.	
	We celebrate Democ	racy Day on Falgun se	even.	
	a) Democracy Day is	s celebrated on Falgun	seven by us.	
	b) Democracy Day w	vas celebrated on Falgu	in seven by us.	
	c) Democracy Day h	as been celebrated on I	Falgun seven by us.	
	d) Democracy Day h	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 si	ingle word for the grou	p of words given below	v.
	That which cannot be	e divided.		
	a) indelible	b) indivisible	c) insoluble	d) indefensible
15.	Which of the following	ng words is an abstract	t noun?	
	a) desk	b) fear	c) class	d) needle
16.	Which of the following	ng words does not hav	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 'emi	ulate'.	
	a) Imitate	b) Deny	c) Discuss	d) Reject
19.	Choose the correct sy	ynonym 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 and	conym for 'segregation'		
	a) appreciation	b) integration	c) cohesion	d) co-ordination
21.	Fill in the gap with the	ne correct word from a	mong the given options	S.
	The price of consume	er goodsincrea	asing.	
	a) are	b) is	c) were	d) has been
22.	Which of the following	ng sentences is incorre	ect in terms of subject v	erb agreement?
	a) Each of the wome	n owns her home.	b) All of the women	own their own homes.
	c) Here are two wren	ches and a hammer.	d) Here is a hammer	and two wrenches.
23.		_	orrect use of comma (,)	?
		day I will never forge		
	b) Some people who	go to school, enjoy the	e social life.	

	c) He was late for dinner, we decided to eat without him.					
	d) We were gla	d to see him, becau	ise he had brought gifts.			
24.	Choose the par	t participate of the	verb <i>guit</i> .			
	a) quited	b) quit	c) quitting	d) has quit		
25.	Choose the cor	rect alternative fror	n among the given options.			
	We spent a	evening toget	ther.			
	a) quite	b) quit	c) quiet	d) quitter		
26.	Which of the fo	ollowing words nee	ds capitalization?			
	a) winter	b) ocean	c) jewish	d) university		
27.	Choose the cor	rect preposition fro	m among the given options.			
		cheati				
	a) for	b) of	c) on	d) in		
28.	Select the corre	ect alternative to fill	l in the gap in the following	sentence.		
	He is coming here six o'clock.					
	a) upon	b) on	c) at	d) to		
29.	Select the corre	ect meaning of the i	diom in,			
	In the good book of					
	a) enjoying a pl	leasant moment.	b) enjoying a fav	our of someone.		
	c) possessing a	good book for read	d) purchasing a g	good book.		
30.	Fill in the gap i	n the following sen	ntence from among the given	n options.		
	I am t	ired to go any furth	her.			
	a) to	b) too	c) so	d) not		
31.	Which is the co	orrect indirect speed	ch for the direct speech give	n below?		
	Hari says, "I ar	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 fr	rom the given options below	v.		
	a) Shall I see yo	ou tomorrow?	b) He has studied Englis	sh for a long time.		
	c) They won't b	elieve you.	d) It will be dark soon.			
33.	Put the correct	verb form in the ga	p below.			
	I tole	d you earlier if I ha	id known.			
	a) would	b) would ha	eve c) had	d) should		
34.	Choose the righ	nt pronoun from the	e given alternatives in the fo	ollowing sentence.		
	If everybody do	es 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	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 ontimistic 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 USA, UK and Japan. It remains to be seen if in the future this science will lead to						
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 passage?	the					
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 stresearch.	uch					
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 made geneticists.	has					
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, the what will be the remainder?	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	$\sum_{n=10}^{10} \left(-1\right)^n ?$		
	a) 0	b) -1	c) 1	d) 10
47.	If 6 is subtracted from that number?	om the cube of a numb	per and the result is 21	, then what is the value of
	a) 2	b) 3	c) 4	d) 5
48.	If the product of tw following?	o consecutive even nu	mber is 288, then wh	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	B 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 equ	$ation x^2 - 6x + c = 0 is$	3, then what is the val	ue of c?
	a) 3	b) 6	c) 8	d) 9
51.	Which one of the fol	lowing is true for the r	oots of the equation x^2	-8x + 16 = 0?
	a) imaginary & uneq	ual b) rati	ional & unequal	
	c) real & equal	,	l & unequal	
52.	If the matrix is of ord	$der 5 \times 3$, then how ma	ny elements will be sin	ngle column?
	a) 5	b) 3	c) 4	d) 15
53.		at is the value of $x + 7$		
	a) 5	b) 7	c) 8	d) 13
54.	If $5x + 13 = 31$, wha	t is the value of $\sqrt{(5x+1)}$	-31) ?	
	a) 5	b) 6	c) 7	d) 8
55.	What is the correct v	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 $a^y = c$	$c^z = a$, 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 va	lue of a and b?	
	a) 2	b) 3	c) 4	d) 5
58.	If $p + q = r$, then what	at 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	n is $2x - 4y = 9$?	
	a) 1	b) $\frac{1}{2}$	c) 2	d) 3
60.	Which one of the fol	lowing is correct for th	ne acute angle of right	angled triangle?
	a) complementary	b) supplementary	c) adjacent	d) equal

61.	There are 60 stu	dents 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 vhis height?	was 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 diffe	erence between $\frac{3}{5}$ of 80	0 and 30% of 80?	
	a) 12	b) 18	c) 24	d) 20
64.	The cost of 6 pe	•	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 k	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?	d 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 as	re 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 $5:7 = 15:x$, th	en what is the value of	x?	
	a) 18	b) 21	c) 24	d) 35
69.	If cost price of 8	B pens and selling price	e of 10 pens is equal, t	then what is loss percentage?
	a) 20%	b) 15%	c) 10%	d) 25%
70.	If the 20% disc price?	ount is given on comp	puter book costing Rs	s. 300, then what will be selling
	a) Rs. 240	b) Rs. 220	c) Rs. 260	d) Rs. 250
71.	A watch is boug	ght 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 pop	ulation 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	percentage per anum t	that a sum of money to	rebles itself in 25 years?
	a) 2%	b) 4%	c) 6%	d) 8%
74.	What is the card	linal number of a vowe	el set $V = \{a, e, i, o, u\}$	}?
	a) 4	b) 5	c) 6	d) 7
75.	What is the min	imum 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 th	ne following is true for	prime number?	
	a) no factors	b) only one fact	or c) only two fac	tors d) more than two factors
77.	Which one of th	ne following interval no	otation is correct for {	$x:5 \le x \le 15\}?$
	a) $[5, \infty]$	b) [∞, 15]	c) [6, 14]	d) [5, 15]
78.	What is the val gives 63?	ue of 'x' when it is m	nultiplied by 6 and ac	lded 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	_	rs and B beats C by 150	0 meters. In the same race,
	a) 150 m	b) 100 m	c) 250 m	d) 200 m
82.	The area of 4 walls its floor?	of square room is 120	m ² . If the height is 5 r	n, then what is the area of
	a) 26 m^2	b) 56 m ²	c) 25 m^2	d) 36 m^2
83.	What is the probabil	ity of death?		
	a) 1	b) $\frac{1}{2}$	c) 0	d) ∞
84.	What is the chance to	o give the birth by a pro	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 alph	abet in given table?	
	T Q N			
	P O S			
	M ? R			
	a) L	b) U	c) S	d) V
87.	Saru ranks 8 th from	the top and 20 th from	the bottom in class, the	en how many students are
	there in class room?			
	a) 28	b) 27	c) 20	d) 29
88.	Find the value of 'x'	in series 1, 1, 2, 3, 5, 8,	, 13, x?	
	a) 21	b) 22	c) 23	d) 20
89.	How many squares i	n the following figure?		
	a) 13	b) 14	c) 15	d) 16
90.	What is the value of	$\cos 0^{\circ}$?		
	a) $\frac{1}{2}$	b) $\frac{1}{\sqrt{2}}$	c) 0	d) 1
	_	V 2		

Group C [General Knowledge]

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

	a) 2072 Ashoj 4	b) 2072 Ashoj	3 c) 2072 Ashoj 2	d) 2072 Ashoj 1
92.	Who is known as "Fa	ather of Compute	er"?	
	a) Charles Babbage	b) Bill Gates	c) Mark Zuckerberg	d) John V Neumann
93.	Which one of the fol	lowing discipline	e is not awarded by noble prize	ze?
	a) Literature	b) Economics	c) Physics	d) Computer Science
94.	Which one of the fol	lowing belongs t	o SSD?	
	a) RAM	b) ROM	c) Cache Memory	d) Mass Storage
95.	Who won the FIFA	World Cup 2018	held in Russia?	
	a) England	b) Croatia	c) France	d) Germany
96.	Which one of the fol	lowing is not an	output device?	
	a) OCR	b) Plotter	c) Monitor	d) Printer
97.	What is the scientific	name of human	?	
	a) Rana Tigrina	b) Homosepian	c) Felis Catus	d) Rattus
98.	Which one of the fol	lowing is the dee	epest river of the Nepal?	
	a) Karnali	b) Koshi	c) Mahakali	d) Gandaki
99.	Who was the first pri	me minister of N	Nepal?	
	a) Janga Bahadur Ra	na	b) Matrika Prasad Koirala	
	c) Bhimsen Thapa		d) Mathabar Sing Thapa	
100	. Who is the writer of	the Nepal novel	"Basain"?	
	a) Lil Bahadur Kshet	ri	b) Ramlal Joshi	
	c) Gopal Prasad Rim	al	d) Lokendra Bahadur Chand	

Best of Luck

Set II



2.

Tribhuvan University

Faculty of Humanities & Social Sciences OFFICE OF THE DEAN 2018

Bachelor in Computer Applications (BCA) Entrance Exam

Full Marks: 100 Time: 2 hrs.

Group A [English]

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

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 ex	spected 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 ch	nange my re	eading.		
	a) catch up on	b) catch on	c) catch up with	d) catch out		
4.	Mrs. MacDonald is l	Mrs. MacDonald is having the old cottage				
	a) do for something	b) do without	c) do over	d) do with		
5.	The new commercial very well.					
	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 appetite.					
	a) work out	b) work up	c) wrap up	d) write off		
8.	The synonym of "am	neliorate" is:				
	a) finish	b) appreciate	c) improve	d) affluent		
9.	Which one is approp	riate synonym of "squ	alor".			
	a) miser	b) indolent	c) hinder	d) shabby		
10.	Give an exact synon	ym 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	sister is called			
	a) regicide	b) genocide	c) sororicide	d) suicide	
14.	Killing of snake	is called:			
	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	tage 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	osite of "pompous"?			
	a) humble	b) rough	c) cheap	d) unique	
19.	One who abando	ons his religious faith is	a/an		
	a) apostate	b) atheist	c) secular	d) credulous	
20.	Repetition or wri	iting word for word is p	outting 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	r 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	ooking a jol	ο.		
	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 in	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) yet	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
33.	Time will tell.			
	a) no time left			
	b) old fashioned id	eas		
	c) whether decision	ns or actions in the pr	esent were right or no	t
	d) future will show			
34.	A night in the towr	is full of		
	a) tasks		b) green lights	
	c) fun and entertair	nment	d) creativity	
35.	Dressed up to the n	ines means.		
	a) very happy spiri	t	b) dressed in one	e's best clothes
	c) a routine dress		d) a small chance	e 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."

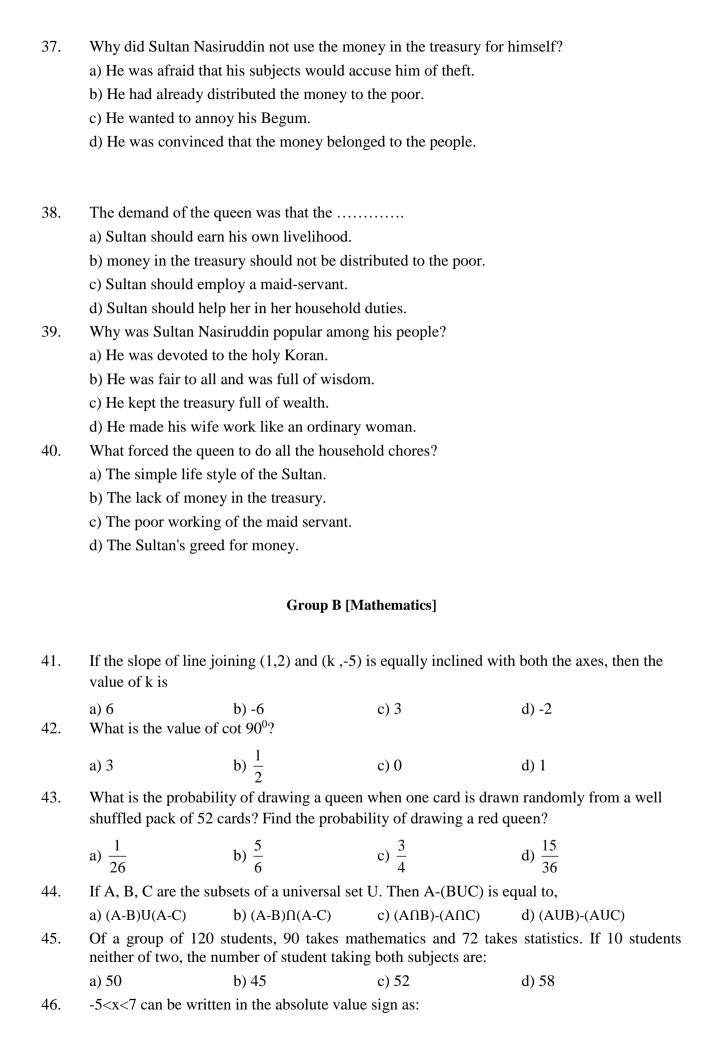
One day while cooking food, she burnt her fingers. She started weeping. On seeing her weeping, Sultan Nasiruddin asked her, "Begum, what is the matter?" The queen started grumbling. "See, I have burnt my fingers. In spite of my being a queen, I have to work like other poor women. Why don't you employ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

- 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	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 $\tan 180^{\circ}$		(1, 2, 0, 0)	<i>a</i>) (1, 0, 1, 0)
	a) 1	b) -1	c) 0	d) ∞
	,	,	,	,
49.	$1^2 + 2^2 + 3^2 + \dots$	$\dots + n^2$ is equal to,		
	n(n+1)	n(n+1)(2n+1)	$(n+1)_{12}$	d) None of the above
	a) $\frac{n(n+1)}{2}$	6	$(2) \left\{ \frac{1}{2} \right\}$	d) None of the above
	(0	5 - 6		
50.	If a matrix $A = \begin{pmatrix} 0 \\ -5 \\ 6 \end{pmatrix}$	0 2, then matr	ix A is known as	
	(6	-2 0		
	a) Symmetric Matrix		b) Skew-Symmetric 1	Matrix
	c) Diagonal Matrix		d) Triangular Matrix	
51.	The radius of the circ	$le x^2 + y^2 = 9 is equal$	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) 0	d) 60
	· ·	<i>'</i>	,	,
53.	If $A = \begin{bmatrix} 1 & 2 \\ 3 & 1 \end{bmatrix}$, then the	he value of $A^2 - 2A -$	5I is equal to,	
	a) 1	b) -1	c) 2	d) 0
54.	What is the half of qu	,	3)	2) 0
	a) 200	b) 100	c) 50	d) 90
55.	Half percent, written	•	,	,
	a) 0.2	b) 0.02	c) 0.005	d) 0.05
56.	The true discount on l	Rs. 2,562 due 4 month	as hence is Rs. 122. Th	e rate percent is:
	a) 12%	b) 13%	c) 14%	d) 15%
57.	The percentage increa	ase in the area of a rec	tangle, if each of its sid	les is increased by 20% is:
	a) 40%	b) 42%	c) 44%	d) 46%
58.	AB and CD bisect each	ch other at O. If AD =	6 cm, BC is:	
	a) 5.9 cm	b) 6 cm	c) 4.8 cm	d) 7 cm
59.	The compound interest	st on Rs. 30,000 at 7%	per annum is Rs. 434	7. The period (in years) is:
	a) 2	b) 3	c) 4	d) 8
60.			C	25%. He would sell it for:
	a) Rs. 1.200	b) Rs. 1,000	c) Rs. 960	d) Rs. 900
61.	Find the percentage g the 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 c	$\cos^2 30^0 - \sin^2 30^0?$		

63.	How many stones each of area 0.16 cm square are required for paving a courtyard 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) $\frac{1}{2} \times b \times h$	c) $\sqrt{(s-a)(s-b)}$	$\overline{(s-c)}$ d) None of these.		
65.	The commission of Rs. 5,600 at the rate of 3.5% is:					
	a) Rs. 196	b) Rs. 440	c) Rs. 360	d) Rs. 1,000		
66.	The discount percent of marked price is Rs. 5,800 and discount amount is Rs. 696 then the discount percent is,					
	a) 12%	b) 20%	c) 5%	d) 38%		
67.	What is the tax rate 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 ages of father and his son is 52 years. Eight years 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.	If 4 is subtracted from a square of a number, its result is 21. The number is,					
	a) 5	b) 4	c) 6	d) 3		
70.	The radius of the circle $x^2 + y^2 - 12x - 4y = 9$ is equal to,					
	a) 18	b) 7	c) 10	d) 2		
71.	The system of linear equation will be consistent and independent if they have,					
	a) exactly one solution		b) more than one	b) more than one solution		
	c) no solution		d) none of these	d) none of these		
72.	Let a and b are two numbers on the real line. If $(a, b] = \{x: a \le x \le b\}$ is known as,					
	a) left open interva	ıl	b) right open into	b) right open interval		
	c) closed interval		d) open interval	d) open interval		
73.	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 functions $g_0f(x)$ is,					
	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 equal to,					
	a) 1	b) 0	c) -1	d) none of these		
75.	The system of equa	ations $4x - 3y = -6$, -4	4x + 2y = 16 is,			
	a) consistent and dependent b) inconsistent and independent					
	c) inconsistent and	dependent	d) consistent and	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	n 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) decagon	b) heptagon	c) quadrilateral	d) hexagon			
80.	Linear equation is also known as,						
	a) simultaneous equation		b) second degree equation				
	c) first degree equation		d) zero degree equation				
81.	31. Two straight lines in same plane which never meet are called,						
	a) angles	b) transversal lines	c) vertex	d) parallel line			
82.	If $x^4 - 3x + 5$ is divided by $2x - 1$, then remainder is,						
	a) $\frac{35}{16}$	b) $\frac{-35}{16}$	c) -9	d) 3			
	16	16	c)	u) 5			
83.	If A, G, H are arithmetic, geometric and harmonic means between a and b,						
	a) in G.P	b) in A.P	c) real numbers	d) in H.P			
84.	In selling an article f	for Rs. 76, a shopkeepe	r gain 52%. The gain b	by selling that for Rs. 74 is			
	a) 45%	b) 48%	c) 49%	d) 50%			
85.	5. Ram bought oranges at 6 for Rs. 10 and sold them at 4 for Rs. 6, find his loss percent						
	a) 12%	b) 8%	c) 6%	d) 10%			
86.	Which of the following is incorrect?						
	a) A.M = ab	b) $G.M = \frac{2ab}{a+b}$	c) $H.M = \frac{a+b}{2}$	d) none of these			
87.	By giving a discount of 10% on the marked price of Rs. 1,100 of a mobile phone a dealer gains 10%, then the cost price is						
	a) Rs. 950	b) Rs. 900	c) Rs. 1,000	d) Rs. 1,050			
88.	Rama purchased a table in Rs. 1,260 and due to some damage on its top, she had to sell i for Rs. 1,197,						
	a) 20%	b) 15%	c) 10%	d) 5%			
89.	A shopkeeper purcha	ses 11 pens for Rs. 10 a	nd sells them at of 10 fo	or Rs. 11, then the profit is,			
	a) 18%	b) 19%	c) 20%	d) 21%			
$\begin{pmatrix} 1 & 0 & 0 \end{pmatrix}$							
90.	If $A = \begin{bmatrix} 0 & 1 & 0 \end{bmatrix}$, then	nen A is					
	If $A = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$, then A is						
	a) unit matrix	b) singular matrix	c) symmetric	d) all of them are true			
Group C [General Knowledge]							
91.	The famous Muktinath Temple is situated in,						

b) Makwanpur c) Mustang d) Gorkha

a) Tanahun

	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 state number 3?						
		a) Helambu	b) Birgunj	c) Tanahun	d) Lumbini	
	96.	How many bits equa	l to one byte?			
		a) 4	b) 16	c) 8	d) 32	
97. 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?			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