

Tribhuvan University Faculty of Humanities & Social Sciences OFFICE OF THE DEAN 2019

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)

1.	This is mobile I like most.					
	a) a	b) an	c) the	d) nothing		
2.	Which of the followi	ng word is an abstract	noun?			
	a) bed	b) desk	c) fear	d) class		
3.	We must be early	we won't get	the tickets.			
	a) otherwise	b) yet	c) however	d) but		
4.	The city center was c	rowded tourist	S.			
	a) for	b) of	c) with	d) by		
5.	Why do you laugh	poor?				
	a) of	b) at	c) in	d) to		
6.	A book is different	а сору.				
	a) than	b) by	c) of	d) from		
7.	He is a student Tribhuvan University.					
	a) on	b) in	c) at	d) of		
8.	Let us play cash.					
	a) by	b) in	c) for	d) at		
9.	Let's have fun?					
	a) will we	b) will you	c) shall we	d) shall you		
10.	An pen is an example of input device.					
	a) Electron	b) Electronic	c) electronics	d) electronically		
11.	In Nepal, rice is grown in Terai region.					
	a) Apparently	b) Mostly	c) Amazingly	d) Enormously		
12.	Select the correct antonym for "shrewd"					
	a) Clever	b) intelligent	c) dull	d) virtuous		
13.	Select the correct syr	nonym for "brief".				
	a) limited	b) small	c) little	d) short		
14.	I think all drivers seat belt.					
	a) should better to wear	b) should wear	c) should have worn	d) had better worn		

15.	friends I made in School are still in touch with me					
	a) Few	b) A few	c) The few	d) Little		
16.	For the last few mont	hs I	for entrance exam.			
	a) am preparing	b) have been preparing	c) prepared	d) have prepared		
17.	The phrase "black sh	eep" means				
	a) costly item	b) A dark shiny item	c) an unworthy	d) a funny mass		
18.	You, and not I,	guilty.				
	a) are	b) is	c) am	d) has		
19.	Many miss	sing.				
	a) book is	b) book are	c) a book is	d) a book are		
20.	I heard Kamala	I passe	d her room.			
	a) to sing	b) sing	c) singing	d) to sing		
21.	Newton	the force of gra	avity makes apple fall.			
	a) discovered	b) had discovered	c) discovers	d) was discovered		
22.	The teacher has enter	ed the classroom, now	us.			
	a) is going to teach	b) teaches	c) will teach	d) will have taught		
23.	My mother encouraged BCA.					
	a) to study	b) studying	c) me studying	d) me to study		
24.	If you have the mixed cement on the floor					
	a) it set	b) it sets	c) it will set	d) it might set		
25.	I this	book is 2068.				
	a) wrote	b) have written	c) write	d) was writing		
26.	Today is					
	a) so hot	b) much hot	c) more hot	d) much hotter		
27.	The passive of "this news surprises me is"					
	a) I am surprised by this news		b) I am surprised at this news			
	c) I was surprised by this news		d) I was surprised at this news			
28.	"Bravo" Well done! Can be reported as					
	a) My papa said I did well					
	b) My papa told me Bravo as I did well					
	c) My papa encouraged me in my excellent performance					
	d) My papa told me bravo					
29.	Sujana is Anjali.					
	a) more pretty than	5	b) much pretty than			
	c) much more prettie	r than	d) prettier than			
30.	She's a good sense of Humor?					
	a) hasn't she	b) does she	c) isn't she	d) doesn't she		

31.	Which of the following is correct?				
	a) I am understanding all the chapters		b) I have understand all the chapters		
	c) I have understood all the chapters		d) I have been understanding all the chapters		
32.	It took us one and				
	a) a half hours		b) a half hour		
	c) half hours		d) half hour		
33.	The world "please" ta	ake the prefix			
	a) un-	b) down-	c) over-	d) dis-	
34.	An unmarried womar	1 is			
	a) bachelor	b) alone	c) spinster	d) widower	
35.	Before he went home	, he	to the hospital		
	a) goes	b) went	c) has gone	d) had gone	

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

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

Wrong says researcher Daniel Anderson, a Psychologist at 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 really doesn't cause. In the process we overlook on our 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 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.

36.	According to Angerso a) A narcotic on child c) A means of book re	on, television acts as Iren eading	b) A change agent ind) An agent in shopp	the society ing children's mind	
37. TV impairs a child's ability to think and interpret the world. Whose opi			e opinion is it?		
	a) of the post modern	researches.			
	b) of the conventional	b) of the conventional critics			
	c) of Anderson				
	d) of recent researchers and reviews				
38.	While watching TV c	hildren are more conce	erned with		
	a) word	b) images	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 po	wer of children.			
	a) inferencing		b) drawing		
	c) reading		d) thinking		

Group B [Mathematics]

41.	% of 2 is equal to a) 20	b) 4	c) 0.4	d) 0.04		
42.	The graph of the equ	ation $v = ax^2 + bx + bx$	c. where a and c are zero	o. is		
	a) Parabola	b) Straight Line	c) Circle	d) Ellipse		
43.	$If P = \{a, b, c, d, e\}, Q$	$=$ {a,c,e,d,t} and R =	{t,d,c,b,e} then the inte	rsection of P,Q and R is		
	a) {a,c}	b) {a,c,e}	c) {c,d}	d) {c,d,e}		
44.	Which of the following set is equivalent to set {c,r,e,a,t,e}?					
	a) φ	b) σ	c) {L,O,V,E}	d) {f,a,m,i,l,y}		
45.	Five person can be se	eated at round table in	n			
	a) 20 ways	b) 4 ways	c) 24 ways	d) 5 ways		
46.	If 40 student play foo students who play fo	otball, 60 students pla otball only, If every s	ay volleyball and 25 play student play at least one	y both games. The number of game is.		
	a) 15	b) 35	c) 75	d) 125		
47.	Ram buys an old e-cy Rs 5800, his gain per	ycle for Rs 4700 and cent is	spend Rs 800 on its repa	airs. If he sells the ecycle for		
	a) 4 {4 / 7} %		b) 5 {5 / 11} %	b) 5 {5 / 11} %		
	c) 20%		d) 30%			
48.	A man buys a cycle for Rs 1400 and sells it at a loss of 15%, the selling price of the cycle is					
	a) 1090	b) 1160	c) 1190	d) 1202		
49.	Solution of the equat	ion x3 - $5x2 + 3x + 9$	$\theta = 0$ is			
	a) 2	b) 6	c) 3	d) 1		
50.	Which one is the form	nula for cos2x				
	a) 1 - 2cos2x	b) 1 - 2 sin2x	c) $\sin 2x + \cos 2x$	d) 2sinx cosx		
51.	Which of the followi	ng represents the set	A - B?			
	a) $\{x : x \in A, x \in B\}$ b) $\{x : x \in A, x \in B\}$					
	c) $\{x : x \in A, x \in B\}$ d) $\{x : x \in A, x \in B\}$					
52.	If $A = \{a, b, c, d\}, B =$	$\{c,d,e,f\}$ and $= \{a, d\}$	b,c,d,e,f,g} then set (A	B) is equal to		
	a) {a,b,f,g}	b) {a,b}	c) {a,b,e,f,g}	d) {c,d>}		
53.	Which of the followi	ng is correct?				
	a) $\lim_{x \to 0} \frac{sin^2 x}{x} = 1$	b) $\lim_{x \to 1} \frac{\sin x}{x} = 1$	c) $\lim_{x\to 0} \frac{cosx}{x} = 1$	d) $\lim_{x \to 0} \frac{sinx}{x} = 1$		
54.	(cotx.secx)/cosecx is	s same to				
	a) sinx cosx	b) 1	c) 1/sincosx	d) $(\cos 2_x)/\sin x$		
55.	The expression $(\sin 2_x)/(1-\cos_x)$ is identical to					
	a) 1+sinx	b) 1+cosx	c) $(\sin 2_x)/(1+\cos_x)$	d) $(\sin 2_x)/\cos x$		

56.	If a line parallel to x-asix, then slope of this line is						
	a) 1	b) -1	c) 0	d) ∞			
57.	What does $(r^6)^3 \div$	(r ⁴)2 equal ?					
	a) r ³	b) r ¹⁰	c) r ⁶	d) r ¹²			
58.	Area of an equilat	teral triangle whose on	e side is 2cm is				
	a) $\sqrt{3}$ cm ²	b) $\sqrt{3/4} \text{ cm}^2$	c) $\sqrt{3}/2$ cm ²	d) $1/(\sqrt{3})$ cm ²			
59.	Semi-perimeter of triangle whose sides are 2cm, 3cm and 5cm is						
	a) 2cm	b) 3cm	c) 5cm	d) 10cm			
60.	If p and q are two	different prime numb	ers then LCM (p,q) is				
	a) p + q	b) p	c) q	d) pq			
61.	If $a + 1$, $2a + 1$, $4a$	a - 1 are in AP, then va	alue of a is				
	a) 1	b) 2	c) 3	d) 4			
62.	$(a + b)^2 + (a - b)^2$	is equal to					
	a) $a^2 + b^2$	b) $2(a^2 + b^2)$	c) $a^2 - b^2$	d) $2(a^2 - b^2)$			
63.	The angle formed	l by the radius of a circ	ele and tangent to that	circle has measure of			
	a) 45°	b) 90°	c) _{135°}	d) 180°			
64.	Slope of a line percendicular to the line whose equation is $3x + 4y = 9$; is						
	a) ³ ⁄ ₄	b) _ 4/3	c) _3/4	d) <u>4/3</u>			
67	V_i all to that a lightly in the analysis of 0.07 lightly 0.07						
07.	•) 91/5"	h) and		d) out			
	a)) F	0) 9138	c) 5 <u>i</u> :	u) 9 ^{[4} "			
68.	Y j kej "qpg"qh'ý g"hqmqy kpi 'ku'kttcvkqpcn'pwo dgtA						
	a) 4 B	^{b)} ç38147	c) ç:	d) ç2026			
69.	Vjg"z/kpvgtegrv'cpf"{"kpvgtegrvu"qh'c"uvtckijv'hpg"4z-5{?8"ctg						
	a) 5"cpf "4"	b) 4"cpf "5	с) _{dqy} '8	d) /5"cpf "/4			
6: .	Ka'equ'C?617'yjgp'xcnwg''qh'vcp'C'ku						
	a) 315	b) 514	c) 5/3	d) 3/6			
6; .	A person took a loan of Rs 1500 from his employer for three months at 12 per annum si interest the amount he has to return is						
	a) Rs 45	b) _{Rs 1454}	c) Rs 1545	d) _{Rs 1554}			
92	The circle of the a	the rate π	4 then its diameter is				
12.	a) 100 cm	b) 50 cm	() 20 am	d) 10 m			
02	The total surface of	50 cm	20 cm	~ 10 cm			
93.	The total surface a $277m^2$	area of closed right circ		d) and height / mis			
0.4	$\frac{a}{1} / \frac{1}{10}$	154 m^2	$c_{\rm j}^2 231 {\rm m}^2$	$308m^2$			
94.	The volume of a (2)	cube is $1/28m^3$ then its	s surface area isA	- (b			
	a) 004m²	^{U)} 846m ²	$(144m^2)$	a) $72m^2$			
95.	If $f(x) = 4x-2$, then $f(x-1)$ isA						
	a) $4x^2-6x+2$	b) $_{4x^2+2x+2}$	c) _{4x-6}	d) _{4x-1}			

74.	. If $3^{x+5} = 1/27$ the	n value of x is				
	a) -10	b) -8	c) -6	d) -2		
75.	If $\cos 60^\circ = 1/2$ then the value of $\cos 300^\circ$ is					
	a) √3/2	b) - 1/2	c) $-\sqrt{3/2}$	d) -1/2		
76.	The zeros of quad	lratic polynomial x ² +7x+	12 are			
	a) -2,-5	b) -3,-4	c) 2, 5	d) 3, 4		
77.	The lines pair 2x-	+4y=3 and x+2y=1 are				
	a) Coincide	b) perpendicular	c) parallel	d) intersect at a point		
78.	Slope of a line pe	rpendicular to a line 20x	-2y=6 is			
	a) -10	b) -1/10	c) 10	d) 1/10		
79.	In given triangle $\angle ACD=5x+5$, the	ABC if side BC is extenden $\angle B$ is	led to point D with $\angle A$	$A=x, \angle B=2x+15$ and		
	a) 5	b) 20	c) 25	d) 55		
80.	If height and dian	neter of a cylinder are 15	cm and 12 cm respect	ively then its volume is		
	a) 180πcm ³	b) 540 πcm ³	c) 675 πcm ³	d) 2160πcm ³		
81.	What is a perimeter of a square whose diagonal is $3\sqrt{2}$					
	a) 18	b) 12	c) 9	d) 6		
82.	The 5 th term of a s	sequence an= (2n-1) is				
	a) 9	b) 5	c) 11	d) 8		
83.	$2^{(n+1)}/2^{(n-2)}$ is equa	al to				
	a) (n+1)/(n+2)	b) 1/8	c) -1/2	d) 8		
84.	The derivative of	x^3 wrt x^2 is				
	a) 2x/3	b) x	c) 3x/2	d) 3/2x		
85.	The value of $\sqrt{-8}$	The value of $\sqrt{(-8)}^*\sqrt{2}$ is				
	a) -4	b) 4	c) 4i	d) -4i		
86.	If $U = \{1, 2, 3, 4,$	5, 6} and A= $\{2, 3, 5\}$ the function of the second secon	ne Ā is			
	a) {1,4,6}	b) {1,2,3,4,5,6}	c) {2,3,5}	d) {1,3,5,6}		
87.	The opposite ang	les of any quadrilateral in	nscribed in a circle are			
	a) Tangent	b) supplementary	c) complementary	d) reflective		
88.	If a set has 5 elen	nents, then possible num	ber of subsets are			
	a) 30	b) 120	c) 32	d) 25		
89.	2,4,6,8	is				
	a) Geometric seri	es	b) Harmonic Series			
	c) Geometric prog	gression	d) Arithmetic progr	ession		
90.	Which of the foll	owing is correct?				
	a) $\lim_{x \to a} \frac{x^n - a^n}{x - a} = na^{n-1}$	b) $\lim_{x \to 0} \frac{x^n - a^n}{x - a} = na^{n-1}$	c) $\lim_{x\to 0} \frac{x^n - a^n}{x - a} = nx^{n-1}$	d) $\lim_{x \to a} \frac{x^{n} - a^{n}}{x - a} = n^{x-1}$		

Group C [General Knowledge]

91.	Who is the author of the novel "Ghanchakkar"?				
	a) Sanjeev Upreti		b) Laxmi Prasad Devkota		
	c) Madhav Prasad Gl	nimire	d) Manjushree Thapa		
92.	When was Tribhuvan University established?				
	a) 2016 B.S.	b) 2015 BS	c) 2022 BS	d) 2013 BS	
93.	Which of the following	ng is not input device?			
	a) Mouse	b) Scanner	c) Monitor	d) Keyboard	
94.	Who is the father of O	Computer?			
95.	a) Charles Babbage Boxing matches are h	b) Lady Ada Lovelace neld in a	c) Bill Gates	d) John Napier	
	a) Square	b) Ring	c) Court	d) Ground	
96.	Who is the Prime Minister of Nepal?				
	a) Khadka Prasad Oli	b) Puspa Kamal Daha	l c) Shushil Koirala	d) Jhalnath Khanal	
97.	Who is the education Minister of Nepal?				
	a) GiriRaj Mani Pokł	narel	b) Yogesh Bhattara	1	
	c) Lal Babu Pandit		d) Barsaman Pun		
98.	Where is the tallest bridge of Nepal?				
	a) Baglung	b) Dang	c) Parbat	d) Bajang	
99.	Cricket World Cup st	arted in			
	a) 1974	b) 1975	c) 1976	d) 1977	
100.	How many provinces are there in Nepal?				
	a) 3	b) 9	c) 7	d) 8	

Best of Luck