Seat No:\_\_\_\_\_

## PARUL UNIVERSITY FACULTY OF IT & COMPUTER SCIENCE BCA Summer 2017 – 18 Examination

Enrollment No:

Semester: 4 Date: 28/05/2018 Subject Code: 05193251 Time: 10:30 am to 1:00 pm Subject Name: English & Mathematical Aptitude - II **Total Marks: 60 Instructions:** 1. All questions are compulsory. 2. Figures to the right indicate full marks. 3. Make suitable assumptions wherever necessary. 4. Start new question on new page. Q.1 Answer the followings. A. Choose the correct answer. (05) 1. Choose the word which is different from the rest. A. Chicken B. Snake C. Swan D. Crocodile 2. Choose the word which is different from the rest. A. Cap B. Turban C. Helmet D. Veil 3. Choose the word which is different from the rest. A. Kiwi B. Eagle C. Emu D. Ostrich 4. Choose the word which is different from the rest. A. Curd B. Butter C. Oil D. Cheese 5. Choose the word which is different from the rest. C. Zirconium A. Potassium B. Silicon D. Gallium **B.** Multiple choice type questions. (Each of 01 mark) (10)1. Choose the odd one out. Α ΟΤΡ B. ABA C. SZX D. UVB 2. Choose the odd one out. A. FAA B. OFF C. ATT D.IFF 3. Choose the odd one out. A. DW B. HS C. MN D. KO 4. Choose the odd one out. A. BYX B. LPO C. EVU D. FUT 5. Choose the odd one out. A. AOT B. CPA C. REB D. TIW 6. Choose the pair in which the words are differently related from the rest. A. Shirt : Dress B. Boy : Girl C. Mango: Fruit D. Table: Furniture 7. Choose the pair in which the words are differently related from the rest. A. Scalpel : Surgeon B. Chisel : Soldier C. Awl : Cobbler D. Knife : Chef 8. Choose the pair in which the words are differently related from the rest. C. Chair : Sofa A. Tree : Stem B. Face : Eye D. Plant: Flower 9. Choose the pair in which the words are differently related from the rest. A. Book : Page B. Table : Drawer C. Loom : Cloth D. Car : Wheel 10. Choose the pair in which the words are differently related from the rest. A. Beans : Pulses B. Rice : Cereals C. Tea : Beverages D. Legumes : Nodules Q.2 Multiple choice type questions. (2 or 3 Mark Questions.) 1. Pointing to a man in a photograph, a woman said, "His brother's father is the only son of my (02)grandfather." How is the woman related to the man in the photograph? A. Sister B. Aunt C. Grandmother D. Daughter 2. A told B, "The girl I met yesterday was the youngest daughter of the brother-in-law of my (02)friend's mother." How is the girl related to A's friend? A. Niece B. Cousin C. Friend D. Daughter

	<b>3.</b> A and B are young ones of C. If C is the father of A but B is not the son of C. How are B and C							
	related							
	A. Niece and Uncle B. Daughter and Father							
	C. Niece and Uncle D. Daughter and Mother							
	4. Poles : Magnet :: ? : Battery			(03)				
	A. Energy B. Power C. Terminals	D. Cells						
	<b>5.</b> Architect : Building :: Sculptor : ?			(03)				
	A. Museum B. Statue C. Chisel	D. Stone		(02)				
	6. Horse : Mare :: A. Fox : Vixen B. Duck : Geese	C. Dog : Puppy	D. Donkov ( Dony	(03)				
Q.3	A. FOX: VIXell B. Duck Geese Answer the following. (Any three)	C. Dog . Fuppy	D. Donkey : Pony	(15)				
Q.J	1. In an auditorium there are six chairs in the first row. Starting from the second each row contains							
	11 more chairs then the previous one. If there are total 20 rows than find the total number of chairs							
	in an auditorium.							
	a) 2210 b) 2110	c) 3110	d) 3210					
	2. In a box there are 8 red 7 blue and 6 green l	balls. One ball is pic	ked up randomly what is the					
	pro1bability that it is neither red nor green.							
	a) $\frac{1}{2}$ b) $\frac{1}{4}$	c) $\frac{1}{3}$	d) None of these					
	<b>3</b> In how many different ways can the letters of	5	E" be arranges?					
	a) 610 b) 150	c) 720	d) 360					
	4. 2. The average age of 30 children in a class is 9 years. If the teacher's age be included the							
	average age becomes 10 years. Find the teacher's age.							
Q.4	Answer the following.							
А.	A. 1. Thirty people participated in a function. Every person shakes hands with every other person.							
	How many handshakes are exchanged?	200	1. 400					
	, , , , , , , , , , , , , , , , , , , ,		d) 400					
	2. A box contains 36 tickets numbered 1 to 36, one ticket drawn at random. Find the probability that the number on the ticket either divisible by 3 or is a perfect square.							
			-					
	a) $\frac{2}{9}$ b) $\frac{4}{9}$ c)		d) $\frac{1}{3}$					
	3. In how many ways can the letter of the wor	d BALLOON be ar	ranged so that two L's do not					
	come together? a) 900 b) 1200 c)	) 800	d) 600					
	4. How many different necklaces can be form		·					
	-		d) 27					
	5. A card is drawn at random from a well- shu		·					
	a jack or a queen or a king.							
		$\frac{4}{13}$	d) $\frac{3}{2}$					
P	1. If a mixture contains water and alcohol in t	15	15	(10)				
р.	water in the mixture?	ne rado 2.5, then wi	hat is the percentage quantity of	(10)				
		30%	d) 40%					
	2. Two pipes A and B can fill a cistern in 20 minutes and 30 minutes. If both the pipes are opened							
	simultaneously, how long will it take to fill the cistern?							
	a) 10 minutes b) 12 minutes c)	14 minutes	d) 16 minutes					
	3. A boat can rowed down a river 40 km in 5h	nr and up a river 21k	tm in 7 hr. Find the speed of the					
	boat and the river.							
	a)5.5km/hr, 2.5km/hr b) 5km/hr, 2km/hr c) 6km/hr, 3km/hr d) 7km/hr, 3.5km/hr							
	4. The ratio of two numbers is 5:9. If each number is decreased by 5, the ratio becomes 5:11. Find							
	the numbers.	15 07	d) None of these					
		) $15, 27$	d) None of these					
	5. If 10 persons can complete 2/5 of a work in	i o uays, illell Illid O	at the number of persons required					

	to complete the remaining work in 12 days.							
	a) 6 days	b) 8 days	c) 10 days	d) 12 days				
			OR					
B.	1. A train running at a speed of 120 km/hr crosses a pole in 15 seconds. Find the length of the train							
	in meters.							
	a) 480km/hr	b) 490 km/hr	c) 500 km/hr	d) 120 km/hr				
	2. Ten years ago, Mohan was thrice as old as Ram was but 10 years hence, he will be only twice as							
	old as Ram. Find Mohan's present age.							
	a) 60 years	b) 80 years	c) 70 years	d) 76 years				
	3. A tap can fill a cistern is 8 hours and another can empty it in 16 hours. If both the taps are							
	opened simultaneously, find the time to fill the cistern.							
	a) 8 hours	b) 12 hours	c) 14 hours	d) 16 hours				
	4. Two numbers are in the ratio of 4:5. If the difference between these numbers is 24, then find the							
	numbers.							
	a) 96, 120	b) 89, 123	c) 88, 234	d) 98, 124				
	5. The speed of a boat in still water is 20 km/hr. If the speed of the stream be 4 km/hr, find out its							
	downstream and upstream speeds.							
	a) 12, 24km/hr	b) 14, 23 km/hr	c) 24, 16 km/hr	d) 15, 30 km/hr				
	<ul><li>4. Two numbers are numbers.</li><li>a) 96, 120</li><li>5. The speed of a be downstream and up</li></ul>	b) 89, 123 b) at in still water is 20 kn stream speeds.	c) 88, 234 m/hr. If the speed of t	a these numbers is 24, then find the d) 98, 124 the stream be 4 km/hr, find out its				