## PARUL UNIVERSITY PARUL INSTITUTE OF COMPUTER APPLICATION BCA DEPARTMENT

Mid Term Examination - October, 2016

Subject Code: 05193201/05393201

Subject Title: English and Mathematical Aptitude I

Course: BCA / IMCA Semester III

Date: 24/10/2016 Time: 10:30 to 12:30 Total Marks: 50

All questions are compulsory to attend.

SECTION 1 (English)

Q-1 Do as Directed

(10)

- Choose the correct option.
- 1. The committee **is/are** seriously considering the matter.
- During recession, not even the Mumbai public has/have enough money to meet its needs.
- 3. The public **is/are** dispersing away from the mo not o nous show.
- 4. The majority wins/win what the minority loses /lose.
- 5. The government has/have fallen after the trust vote.
  - · Choose the correct option.

6. He was \_\_\_\_ leader of the group.

**B.chose** C.chosen A. Choose

7. I have my work.

A.Do B.did C.done

8. The letter was\_ \_ by the clerk.

A.Write B.wrote C.written

the window pane. 9. You have C.broken

A.Break B.broke 10. Who has \_ my pen?

A.Take B.took C.taken

Q-2 Read the paragraph and write the answers of the given questions.

(07)

In the 16th century, an age of great marine and terrestrial exploration, Ferdinand Magellan led the first expedition to sail around the world. As a young Portuguese noble, he served the king of Portugal, but he became involved in the quagmire of political intrigue at court and lost the king's favor. After he was dismissed from service by the king of Portugal, he offered to serve the future Emperor Charles V of Spain. A papal decree of 1493 had assigned all land in the New World west of 50 degrees W longitude to Spain and all the land east of that line to Portugal, Magellan offered to prove that the East Indies fell under Spanish authority. On September 20, 1519, Magellan set sail from Spain with five ships. More than a year later, one of these ships was exploring the topography of South America in search of a water route across the continent. This ship sank, but the remaining four ships searched along the southern peninsula of South America. Finally they found the passage they sought near 50 degrees S latitude. Magellan named this passage the Strait of All Saints, but today it is known as the Strait of Magellan.

One ship deserted while in this passage and returned to Spain, so fewer sailors were privileged to gaze at that first panorama of the Pacific Ocean. Those who remained crossed the meridian now known as the International Date Line in the early spring of 1521 after 98 days on the Pacific Ocean. During those long days at sea, many of Magellan's men died of starvation and disease.

battle. Only one ship and 17 sailors under the command of the Basque navigator Elcano survived to complete the westward journey to Spain and thus prove once and for all that the world is round, with no precipice at the edge. 1. The 16th century was an age of great \_\_\_\_ exploration. E. None of the above B. land C. mental D. common man 2. Magellan lost the favor of the king of Portugal when he became involved in a political E. None of the above B. discussion C. negotiation D. problem A. entanglement 3. The Pope divided New World lands between Spain and Portugal according to their location on one side or the other of an imaginary geographical line 50 degrees west of Greenwich that extends in a \_\_\_\_\_ direction. D. south east E. north and west A. north and south B. crosswise C. easterly 4. One of Magellan's ships explored the \_\_\_\_\_ of South America for a passage across the continent. E. None of the above B. mountain range C. physical features D. islands A. coastline 5. Four of the ships sought a passage along a southern \_\_\_ D. border C. body of land with water on three sides B. inland A. coast E. Answer not available 6. The passage was found near 50 degrees S of \_\_\_\_ D. Portugal E. Madrid C. Spain A. Greenwich B. The equator 7. In the spring of 1521, the ships crossed the \_\_\_\_\_ now called the International Date Line. A. imaginary circle passing through the poles B. imaginary line parallel to the equator D. land mass E. Answer not available C. area Q.3 (A) Find out mistakes and rewrite the given sentences. (04)1. Isn't that your brother's friend car over there in front of John's house? 2. I think this chocolate mousse would be more nice if you put a bit more sugar in it. 3. My family is composed of four people, my mother, my father, my brother and myself. 4. My mother has to go to the hospital to have an operation on her leg. Q.3 (B) Give the answers of the questions in brief. (04)

Write a brief note on the importance of Reports.
 Write a brief note on the objectives of Reports.

Later, Magellan became involved in an insular conflict in the Philippines and was killed in a tribal

## SECTION 2 (Mathematics)

Q.1 Each Qu	(25)						
	eatest number t	hat will divide 4	43, 91 and 183 so	as to leave the same remainder in			
<u>A.</u> 4			<u>B.</u> 7				
<u>C.</u> 9			D 12				
2.The H.C.F. of the two r A.276	of two numbers in the numbers is:	is 23 and the ot	her two factors of	their L.C.M. are 13 and 14. The larger			
<u>C.</u> 322			<u>B.</u> 299				
	mmanas talli		<u>D</u> .345				
respectively	7. In 30 minutes,	how many time	es do they toll tog	, 4, 6, 8 10 and 12 seconds gether ?			
<u>C.</u> 15			<u>B.</u> 10				
	1 00		<u>D.</u> 16				
4. The great	est number of fo	our digits which	is divisible by 15	5, 25, 40 and 75 is:			
A.9000			<u>B.</u> 9400				
<u>C.</u> 9600			<u>D.</u> 9800				
5.The produ	ict of two number	ers is 4107. If th	e H.C.F. of these r	numbers is 37, then the greater			
number is:				,			
<u>A.</u> 101			B.107				
<u>C.</u> 111			D.185				
6. Three nur	nber are in the r	atio of 3:4:5	and their L.C.M. is	2400. Their H.C.F. is:			
A.40			<u>B.</u> 80	a root men men men. Is.			
C.120			D.200				
	ne unit digit of (	13697)3265	<u>D.</u> 200				
7. 27. I ma ti	ic difficulty (	13007)					
a) 7	b) 3	c) 6	d) 8				
8. Find the la	est digit of 2 <sup>412</sup> x	4428					
a) 6	b) 3	c) 4	d) 5				
9. Find the unit digit of $3^{200} \times 4^{500}$							
a) 6	b) 3	c)4	d) 2				
10. (?) - 1965	57 - 33994 = 999	99					
a) 63650	b) 363	350	c) 65630	d) 65530			
11. If <i>a</i> and <i>b</i>	are odd number	rs, then which o	f the following is	even?			
a) a+b	b) b+a	c) ab	d)ba				
12. What is the unit digit in(795 - 358)?							
a) 4	b) 2	c) 6	d) 8				

13. A batsman score did he m	scored 110 runs which nake by running betwee	included 3 boundaries on the wickets?	s and 8 sixes. What percent of his total				
A.45%		B.45 <sup>5</sup> <sub>11</sub> %					
<u>C.</u> 54 <sup>6</sup> <sub>11</sub> %		<u>D.</u> 55%					
14. Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are:  A.39, 30  B.41, 32  C.42, 33  D.43, 34							
15 A 6 11 11							
15. A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had:  A.588 apples  C.672 apples  D.700 apples							
16. What perc	entage of numbers from	n 1 to 70 have 1 or 9 in	the unit's digit?				
<u>A.</u> 1 <u>C.</u> 20		<u>B.</u> 14					
17. Rakesh credits 15% of his salary in his fixed deposit account and spends 30% of the remaining							
amount on groceries. If the cash in hand is Rs.2380, what is his salary?  A. Rs.3500  B. Rs.4000							
C. Rs.4500		D. Rs.5000					
18. 56. Three candidates contested an election and received 1136, 7636 and 11628 votes respectively. What percentage of the total votes did the winning candidate get?  A.57%  B.60%							
C.65% D.90%  19. The population of a town increased from 1,75,000 to 2,62,500 in a decade. The average percent increase of population per year is:							
A.4.37% C.6%		<u>B.</u> 5% <u>D.</u> 8.75%					
	The square of 0.0021 is $\frac{D.6.75\%}{}$						
a) 0.00441	b) 0.0000441	c) 0.000441	d)0.00000441				
21.The square of 44 is							
a) 1936	b) 1196	c) 2236	d)2336				
22.The square of 106 is							
a) 12323	b) 1236	c) 11136	d)11236				
23.The square of 9.9 is							
a) 98.01	b) 980.1	c) 99.01	d)99				
24.The square of 0.105 is							
a) 0.00105	b) 0.0011025	c) 0.011025	d)0.010025				
25.The square of 71 is							
a) 0.5041	b) 5041	c) 5071	d)50.71				