

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
MCA Winter 2017 – 18 Examination

Semester: 4**Subject Code: 05293251****Subject Name: English & Mathematical Aptitude-1****Date: 12/01/2018****Time: 02.00 pm to 4.30 pm****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.
5. No Calculating device is permitted and showing calculation is must.

Q.1 Answer the followings.**A. Write short notes.****(05)**

1. Frequently asked questions in Job interview
2. Job or Business
3. Importance of Mock interview for students
4. How to improve English with the help of News papers
5. Importance of News paper articles.

B. Multiple choice type questions/ Give the sentence true or false. (Each of 01 marks)**(10)**

1. CUP : LIP :: BIRD : ?
 - A. BUSH
 - B. GRASS
 - C. FOREST
 - D. BEAK
2. Flow : River :: Stagnant : ?
 - A. Rain
 - B. Stream
 - C. Pool
 - D. Canal
3. Paw : Cat :: Hoof : ?
 - A. Lamb
 - B. Elephant
 - C. Lion
 - D. Horse
4. Peacock : India :: Bear : ?
 - A. Australia
 - B. America
 - C. Russia
 - D. England
5. Choose the word which is different from the rest.
 - A. Chicken
 - B. Snake
 - C. Swan
 - D. Crocodile
6. Choose the word which is different from the rest.
 - A. Cap
 - B. Turban
 - C. Helmet
 - D. Veil
7. Choose the word which is different from the rest.
 - A. Kiwi
 - B. Eagle
 - C. Emu
 - D. Ostrich

8. Choose the word which is different from the rest.

- A. Curd
- B. Butter
- C. Oil
- D. Cheese

9. Choose the word which is different from the rest.

- A. Tailor
- B. Carpenter
- C. Blacksmith
- D. Barber

10. Choose the word which is different from the rest.

- A. Iron
- B. Potassium
- C. Sodium
- D. Chlorine

Q.2 Explain the given Phrases and Idioms in brief. (1,2,3 questions are of 02 marks and 4,5,6 questions are of 03 marks) (15)

1. "Curiosity killed the cat"
2. "Cry over spilt milk"
3. "Can't judge a book by its cover"
4. "Fortune favors the bold."
5. "Better late than never."
6. "The pen is mightier than the sword."

Q.3 Answer the following. (Any three) (15)

1. A sum of money at compound interest amounts to Rs. 4050 in one year and to Rs. 4723.92 in 3 years. Find the rate of interest per annum.
a) 6% b) 7% c) 8% d) 9%
2. Two trains of lengths 200m and 175m run on parallel tracks. When running in the same direction the faster train crosses the slower one in 37.5 seconds. When running in opposite directions at speeds as their earlier speeds, they pass each other completely in 7.5 seconds. Find out the speed of each train.
10m/s, 20m/s b) 20m/s, 30m/s c) 30m/s, 20m/s d) 20m/s, 10m/s
3. If 10 persons can complete $\frac{2}{5}$ th of a work in 8 days, then find out the number of persons required to complete the remaining work in 12 days.
a) 8 b) 9 c) 3 d) 10
4. A dishonest shopkeeper professes to sell his goods at cost price, but he uses a weight of 800 gm for the kg weight. Find out the gain percent.
a) 10% b) 15% c) 20% d) 25%

Q.4 Answer the following. (A -each carry one mark) (B- each carry 02 marks)

A. (05)

1. What fraction is $16\frac{2}{3}$ %?
a) $\frac{1}{6}$ b) $\frac{1}{3}$ c) $\frac{1}{8}$ d) $\frac{1}{12}$
2. The cost price of a shirt of Rs. 200 and selling is Rs. 250. Calculate profit %?
a) 12% b) 24% c) 25% d) 30%
3. A can finish a piece of work by working alone in 6 days and B, while working alone, can finish the same work in 12 days. If both of them work together, then in how many days, the work will finish?
a) 2 days b) 9 days c) 6 days d) 4 days
4. How long does a train 100 meters long running at the rate of 40 km/h take to cross a pole?
a) 9 seconds b) 4 seconds c) 6 seconds d) 10 seconds
5. Find the simple interest on Rs. 5200 for 2 years at 6% per annum.
a) Rs. 654 b) Rs. 624 c) Rs. 678 d) Rs. 666

B. 1. 18 men can complete a job in 15 days working 8 hours a day. In how many days can 10 men working 12 hours a day complete the job? (10)

- a) 12 b) 16 c) 18 d) 20

2. By selling an article at Rs. 165, a salesman earns a profit of 10%. At what price should a customer buy the article such that it results in a loss of 10% to the sales man?

- a) Rs. 40 b) Rs. 135 c) Rs. 120 d) Rs. 12

3. What sum of money yields a simple interest of Rs. 1152 at 12% per annum in 3 years?

- a) Rs 3500 b) Rs. 3800 c) Rs. 3200 d) Rs. 3000

4. 36% of the maximum marks in an examination is equal to 756 marks. What is 54% of the maximum marks?

- a) 1134 b) 1234 c) 1223 d) 1432

5. A train 300m long is moving at 54 kmph. How long does it take another train, 300m long running at 36kmph in the same direction?

- a) 100 seconds b) 120 seconds c) 110 seconds d) 80 seconds

OR

B. 1. A train, 300m long is moving 54kmph, How long does it take to cross a person moving in an opposite direction at 18kmph to it? **(10)**

- a) 15 seconds b) 16 seconds c) 17 seconds d) 18 seconds

2. P is twice as fast as Q and R together. Working together, all the three can do a work in 21 days. In how many days Q and R together do the work?

- a) 48 b) 63 c) 54 d) 56

3. What sum of money amounts to Rs. 15000 in 5 years at 10% per annum simple interest?

- a) Rs. 40000 b) Rs.1 4000 c) Rs. 10000 d) Rs. 40400

4. Find the time in which a 300m long train travelling at a speed of 68 kmph can overtake a cyclist travelling at 8 kmph.in the same direction.

- a) 12 seconds b) 14 seconds c) 16 seconds d) 18 seconds

5. In how many years a sum of money will double itself at 8% per annum simple interest?

- a) 15 years b) $12\frac{1}{2}$ years c) 20 years d) 23 years