

PARUL UNIVERSITY
FACULTY OF MANAGEMENT
BBA Mid semester 2019 - 20 Examination

Semester: 4

Subject Code: 06193257

Subject Name: CDC [Maths -English]

Date: 07/03/2020

Time: 10.00 to 12.00

Total Marks: 30+10=40

Student's Name: _____

Enrollment No: _____ Div. _____

Student's sign: _____

Invigilator's Sign: _____

Instructions

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.

Q.1 Multiple choice type questions/Fill in the blanks. (Each of 1 mark)

(10)

1. $(1005)^2 =$ _____
a) 1120025 c) 1000025
b) 1010025 d) 1125025
2. Find the sum of all factors of 280.
a) 720 c) 730
b) 740 d) 750
3. LCM of $\frac{3}{8}$ and $\frac{5}{2}$ is _____
a) 1.5 c) 7.5
b) 4.5 d) 5.5
4. $4236 \times 2351 =$ _____
a) 9958836 c) 9959936
b) 8858836 d) 8858856
5. A sum of money at simple interest amounts to Rs.815 in 3 year and 854 in 4 year then find the sum. _____
a) 650 c) 690
b) 698 d)700
6. $\sqrt{2916} =$ _____
a)44 c)46
b)54 d)56
7. The sum of first n natural number is _____
a) $\frac{n(n+1)}{2}$ c) $\frac{n(n^2+1)}{2}$
b) $2n + 1$ d) none of these
8. The rational for the recurring decimal 0.125125 is _____
a) $\frac{125}{990}$ c) $\frac{125}{999}$
b) $\frac{125}{9999}$ d) $\frac{125}{9000}$
9. For which value of m quadratic equation $x^2 + mx + 4 = 0$ have a real and equal roots then what is value of m. _____
a) 4 c) -4
b) 4 and -4 d) 16

10 Let $x^2 - 9x + 20 = 0$ and $2y^2 - 14y + 20 = 0$ then relation between x and y is _____
a) $x = y$ c) $x \geq y$
b) $x \leq y$ d) $x < y$

10

Q.2 Answer the following questions.

- 1.) 14 and 15 are co prime number. yes/No. : _____
- 2.) How much time will it take for an amount of Rs. 900 to yield Rs. 81 as interest rate at 4.5% per annum of simple interest? _____
- 3.) H.C.M of 1.5 and 2.25 is Ans _____
- 4.) If certain sum of money becomes triple itself in 5 years at a simple interest. Find the rate percent of interest per annum. . _____
- 5.) Find arithmetic mean between 14 and 18 . _____
- 6.) If the roots of a quadratic equation are 20 and -7 then find the equation. _____
- 7.) How many terms are there in the Geometric progression $16, 8, 4, \dots, \frac{1}{16}$

- 8.) A man spends 20% of his income on rent ,25% on food ,30% on miscellaneous items and saves Rs. 2000 . find his total salary. _____

9.) Find the smallest four digit number which is divisible by 43. _____

10.) If one of the roots of quadratic equation $x^2 + mx + 28 = 0$ is 4 then what is value of $m =$ _____

Q.3 Answer the following questions. ((Each of 2 mark)) (any five)

10

1.) The compound interest on Rs. 30,000 at 7% per annum is Rs. 4347 . Find the time period (In year) _____

2.) The difference between simple interest and compound interest compounded annually on a certain sum of money for 2 year at the rate 4% per annum is 1 . find the sum. Rs. _____

- 3.) The 5th term of Arithmetic progression is 21 and 8th term is 33. Find the value of first term. _____
- 4.) The sum of square of three consecutive even number is 1460 then find the numbers. _____
- 5.) Find the greatest number that will divide 148 and 246 leaving remainder 4 and 6 respectively. _____
- 6.) In an auditorium there are 6 chairs in the first row , starting from second row contains 11 more chairs then the previous one. If there are 20 rows in a room then find total chairs of an auditorium. _____
- 7.) Find the sum up to 5 terms of geometric progression whose first term is 54 and fourth term is 2. _____