

Roll No

CHD-11-19

(To be filled in by the candidate)

(Academic Sessions 2015 – 2017 to 2018 – 2020)

BUSINESS MATHEMATICS

Q.PAPER (Objective Type)

219-(INTER PART – I)

Time Allowed : 15 Minutes

Maximum Marks : 10

PAPER CODE = 6648

Note : Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

1-1	The annuity in which terms of annuity is fixed, is called : (A) Ordinary annuity (B) Annuity due (C) Annuity certain (D) Simple interest
2	A first degree equation is called : (A) Linear (B) Non-linear (C) Quadratic (D) Simultaneous
3	The determinant of an identity matrix is : (A) 0 (B) 1 (C) -1 (D) 2
4	What percentage of 300 is 30 : (A) 3% (B) 5% (C) 10% (D) 15%

(Turn Over)

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5	If $x : 4 :: 3 : 2$ then value of x is : (A) 2 (B) 4 (C) 8 (D) 6
6	Formula for simple interest is : (A) Prt (B) $P(1+i)^n$ (C) $P(1-i)^n$ (D) SRI
7	In the binary system 5 is : (A) $(100)_2$ (B) $(110)_2$ (C) $(11)_2$ (D) $(101)_2$
8	Solve $y - x = 2$ and $y + x = 2$ for y : (A) 4 (B) 2 (C) 0 (D) -2
9	Solution set of $x^2 - 4 = 0$ is : (A) $\{2\}$ (B) $\{-2\}$ (C) $\{2, -2\}$ (D) $\{4\}$
10	If $x + 4 = 12$ then value of x is : (A) 8 (B) 4 (C) 16 (D) 12

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Roll No _____

(To be filled in by the candidate)

(Academic Sessions 2015 – 2017 to 2018 – 2020)

BUSINESS MATHEMATICS

(Essay Type)

219-(INTER PART – I)

Time Allowed : 1.45 hours

Maximum Marks : 40

SECTION – I

2. Write short answers to any SIX (6) questions :

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- (i) Define proportion.
- (ii) Reduce to its lowest form 60 : 180
- (iii) Find 40% of 300.
- (iv) Express 25% as a fraction.
- (v) Find the simple interest on Rs.2000 for one year at 10%.
- (vi) Define principal amount.
- (vii) Define ordinary annuity.
- (viii) Solve for x $5(x-3)=2(2x+4)$
- (ix) Solve for x $4x-7=2x+1$

3. Write short answers to any SIX (6) questions :

12

- (i) Explain quadratic equation.
- (ii) Write the formula of quadratic equation.
- (iii) Solve $x + y = 40$, $x - y = 15$
- (iv) Define consistent system of equation.
- (v) Define variable and constant.

(Turn Over)

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3. (vi) Define number system used in computer.
(vii) Convert $(35)_{10}$ in binary system.
(viii) If $A = \begin{bmatrix} 4 & 3 \\ 2 & 5 \end{bmatrix}$, find A^2
(ix) If $A = \begin{bmatrix} 3 & 2 \\ 1 & 4 \end{bmatrix}$, find A^{-1}

SECTION - II

Note : Attempt any TWO questions.

4. (a) If the stay of 10 persons for 14 days in a hotel costs Rs.10,000, find the cost of stay of 6 persons for 7 days? 4
(b) Find the compound interest if 50,000 loaned for 6 years @ 12% per annum. 4
5. (a) Solve $8x^2 - 14x - 15 = 0$ by using quadratic formula. 4
(b) Solve $\begin{cases} 3x + 2y = 54 \\ 2x - 3y = 10 \end{cases}$ by elimination method. 4
6. (a) Solve $\begin{cases} 3x + y = 5 \\ 6x - y = 7 \end{cases}$ by using Cramer's rule. 4
(b) Simplify : $\{(100111)_2 + (10101)_2\} - (10111)_2$ 4

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