

Paper Code

2019 (A)

Roll No.

Number:

2641

INTERMEDIATE PART-I (11th CLASS)

MTN-11-19

BUSINESS MATHEMATICS & STATISTICS
(COMMERCE GROUP)

PAPER-I

(NEW SCHEME)

TIME ALLOWED: 15 Minutes

MAXIMUM MARKS: 10

OBJECTIVE

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank. No credit will be awarded in case BUBBLES are not filled. Do not solve questions on this sheet of OBJECTIVE PAPER.

Q.No.1

- (1) The ratio between 850grms and 1.70kg is:
- (A) 5 : 1 (B) 1 : 2 (C) 1 : 5 (D) 2 : 1
- (2) What percent Rs.30 is of 300?
- (A) 30% (B) 20% (C) 10% (D) 15%
- (3) The amount paid to an agent as remuneration for his services is called:
- (A) Salary (B) Commission (C) Rent (D) Profit
- (4) An ordinary annuity which never stopped is called:
- (A) Annuity (B) Compound interest (C) Compound amount (D) Perpetuity
- (5) If three times a number is 150, then the number is:
- (A) 25 (B) 40 (C) 50 (D) 60
- (6) Number of ways to solve a quadratic equation are:
- (A) Two (B) Three (C) Four (D) Five
- (7) The solution of $2x + y = 6$, $x - y = 2$ is:
- (A) $\left(\frac{8}{3}, \frac{2}{3}\right)$ (B) $\left(\frac{3}{8}, \frac{3}{2}\right)$ (C) $\left(\frac{-3}{8}, \frac{3}{2}\right)$ (D) $\left(\frac{-8}{3}, \frac{-2}{3}\right)$
- (8) If $f(x) = \frac{x+5}{x-5}$, then $f(0)$ is:
- (A) 1 (B) 10 (C) 0 (D) -1
- (9) The determinant of an identity matrix is equal to:
- (A) 0 (B) -1 (C) 1 (D) 2
- (10) $(1001)_2$ in decimal system is:
- (A) 9 (B) 7 (C) 13 (D) 11

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2019 (A) Roll No: MTM-11-19
INTERMEDIATE PART-I (11th CLASS)
BUSINESS MATHEMATICS & STATISTICS PAPER-1 (NEW SCHEME)
(COMMERCE GROUP) TIME ALLOWED: 1.45 Hours
MAXIMUM MARKS: 40

SUBJECTIVE

NOTE: - Write same question number and its part number on answer book,
as given in the question paper.

SECTION-I

6 × 2 = 12

2. Attempt any six parts.

- (i) Find the ratio between 5 minutes and 30 seconds.
- (ii) If $45 : 60 :: 900 : x$ then find the value of x .
- (iii) 160 is 20% of what number?
- (iv) Define Percentage.
- (v) Find simple interest on an amount of Rs.20000 invested for 4 years at the rate of 2½% annually.
- (vi) Define Compound Interest.
- (vii) Write any two types of annuity.
- (viii) Solve the equation $\frac{2x}{7} + 1 = 0$
- (ix) Solve the equation $3x + 2 = 2x + 6$

6 × 2 = 12

3. Attempt any six parts.

- (i) Find x and y if $x - 2y = 1$; $3x + 2y = 7$
- (ii) Find x if $x^2 - (a + b)x + ab = 0$
- (iii) Write quadratic equation and quadratic formula.
- (iv) Write the domain and range of the relation $\{(1, 3), (3, 3), (5, 1), (6, 1)\}$
- (v) $f(x) = \sqrt{x^2 - 3x}$, find $f(3)$ and $f(4)$
- (vi) Define order of a matrix with an example.
- (vii) Show that $A = \begin{bmatrix} 0 & 3 \\ -3 & 0 \end{bmatrix}$ is a skew symmetric.
- (viii) Convert 26 into binary system.
- (ix) Evaluate $(10101)_2 - (1111)_2$

SECTION-II

NOTE: - Attempt any two questions.

- 4.(a) 60 men can build a house in 44 days. How many days will 40 men take to build the same house? 4
- (b) Calculate the present value of an annuity of Rs.400 each month for 4 years at 6% compounded monthly. 4
- 5.(a) The area of room is 120 square metres. If the length is 2 metres more than breadth, find the length and breadth of room. 4
- (b) Solve the equations $465x + 75y = 615$, $75x + 465y = 1005$ 4
- 6.(a) Solve $2x - 5y = 1$; $3x + 4y = 16$ by using matrices. 4
- (b) Evaluate $[(1011)_2 \times (111)_2] - (101)_2$ 4