11th CLASS COMMERCE GROUP GUESS PAPER – 2022

BUSINESS MATHEMATICS.

2. Write short answers to questions.

- i) Define proportion.
- ii) Define principal amount.
- iii) Define ordinary annuity.
- iv) What percentage of Rs. 120 is 84
- v) Define compound interest.
- vi) Find 40% of 300
- vii) What are the types of discount?
- viii) Write the formula for sum of ordinary annuity.
- ix) Define compound interest.
- Find the compound interest due in case of Rs. 1000/- loaned for 5 years at 6% annually.
- xi) Divide Rs. 4800 in the ratio 5: 7

3. Write short answers to questions.

- i) Explain quadratic equation.
- ii) Write the formula of quadratic equation.
- iii) Define number system used in computer.
- iv) Find x if 2x 7 = 13
- v) Define Linear equations.
- vi) Convert $(35)_{10}$ in binary system.
- vii) Define singular and non -singular matrices.
- ix) Define reciprocal equations.
- x) Define row matrix
- xi) Convert (1011)₂ in to decimal number system.

SECTION - II

- 4. A watch was sold for Rs. 850 on 4½ loss. Find the cost price of the watch.
- 5. Find the compound interest in Rs. 5000 loaned for 6 years @ 12% per annum.
- 6. Convert 5x + 2y = 10 into intercepts form and identify x and y intercepts.
- 7. Using Crammer's rule, solve the following system of linear equations: 3x + 2y = 12

x + 5y = 17

- 8. 3x + 2y = 54 by elimination method. 2x - 3y = 10
- 9. $8x^2 14x 15 = 0$ by using quadratic formula.
- 10. Evaluate: (11011)₂ X (10001)₂