

STD:X ROLL NO.  
DATE:26/02/2019

I A) Solve the following (2)

1. Multiply and find the product

$$(3 + 5)(3 - 5)$$

2. Solve the simultaneous equation

$$x + y = 4, 2x - 5y = 1$$

B) Solve the following (2)

1) Divide  $(2+2x^2)$  by  $(x+2)$  and write the answer in the form of Dividend = Divisor  $\times$  Quotient + Remainder

II A Choose the correct alternative from the given option and complete the sentences (2)

1) Form a standard pack of 52 playing cards card is selected at random. The probability that it is a black king is

- a)  $\frac{1}{13}$     b)  $\frac{1}{26}$     c)  $\frac{1}{52}$     d)  $\frac{4}{13}$

2) The NAV OF a unit in mutual fund scheme is 10.65, the find the amount required to buy 500 such units

- a) 5325    b) 5235    c) 532500    d) 53250

II A Solve the following (2)

1) The first term and common difference of an A.P is 10 and 5 respectively. Complete the following activity to find the sum of first 30 term of the A.P.

$$S_n = \frac{n}{2} [ \square + (n-1)d ]$$

$$S_{30} = \frac{30}{2} [ 20 + (30-1) \times \square ]$$

$$= 15 [ 20 + \square ]$$

$$= 15 \times 165$$

$$= \square$$

II B Solve the following (2)

1. Solve  $5m^2 - 22m - 15 = 0$

III B. Solve the following (6)

1) A rectangular playground is 420 sq.m. If its length is increased by 7m and breadth is decreased by 5 meters, the remains the same .Find the length and breadth of the playground

2) Prasad purchased a washing – machine from 'Electronic Goods'. The discount of 5 % was given on the printed price of 40,000 Rate of GST charged was 28%. Find the purchase price of washing machine. Also find the amount of CGST and SGST shown in the tax invoice.

Iv ] Solve the following

Draw histogram for the following data .

|                     |       |       |       |       |       |
|---------------------|-------|-------|-------|-------|-------|
| Weight of boys (Kg) | 35-39 | 40-44 | 45-49 | 50-54 | 55-59 |
| Number of boys      | 4     | 7     | 12    | 6     | 1     |