First Semester Examination-mathematics Marks: 40

Please note:1. All sums must be done on composition sheets.

- 2. On each side of the composition sheet mention your name, roll no., std., and div.
- 3. Take clear picture of answer sheets and submit it as pdf.
- 4. Rename your pdf as your 'Roll no name subject Sem.1' (Example: 23 Akash Jain Math Sem.1)



Q.2)

(a)

[10]

(4)

(i)
$$\frac{15}{8} \div \left(\frac{1}{3} \times \frac{9}{7}\right)$$

Simplify :-

(ii) 0.9 x 0.69 x 0.36

(b) Use the figure and answer the questions given below: (6)



- (i) Pair of intersecting lines.
- (ii) Three collinear points on line AF.
- (iii) Point of intersection of line ED and AG.
- (iv) Name the line parallel to the line BC passing through point A.
- (v) Name the point of concurrence in the figure.
- (vi) What type of points are point J, point K and point L.

Q.3)	Solve :-	[10]
(i)	5.63 x 0.5 - 82.8 ÷ 0.4	(3)
(ii)	43.12 – (– 350.895 + 393.12)	(2)
(iii)	Add 392cm to 53.62m giving answer in meter.	(1)
(iv)	Subtract 3.542kg from 4kg giving answer in gram.	(1 ½)
(v)	Add 2 and 4, represent the answer obtained on number line.	(1)
(vi)	Subtract –324 from –682	(1 ½)

Q.4)

[10]

(6)

(a)	Do as directed: -	

- (i) State the numeral coefficient of the term 9bc².
- (ii) Add the terms 2bc² and 9bc².
- (iii) Subtract the term $3a^2$ from a^2 .
- (iv) Write the degree of the term $2a^2b^2$.
- (v) State the number of terms in the expression. $2bc^2+2b^2c-2a^2b^2$.
- (vi) Express in algebraic form: 5 times of 'a' is less than 9 times 'b'.
- b) 3/7 part of a price of computer which cost Rs. 49000/- was (4) paid by Jashmin and the 2/7 part was paid by Jash.
 Rest of the amount was a Diwali discount. Calculate
 (i) Amount paid by Jash. (ii) Amount in excess paid by Jashmin?
 - (iii) Amount of discount in rupees.

-----The End------