GREENLAWNS HIGH SCHOOL

FIRST TERMINAL EXAMINATION YEAR 2022-23

SUBJECT: MATHEMATICS   CLASS: VII

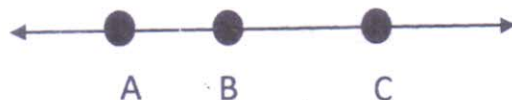TIME: $1\frac{1}{2}$ hour   Marks : 60

Note-

i.   All answers to be written in the answer booklet provided. Show working wherever required.

ii.   Do not copy the questions

iii.   Rough work must be done on the same page as the rest of the answer.

<u>Section A</u>

Q1] Fill in the blanks.   (10m)

1. In the figure drawn below

    A   B   C

    Points A , B and C are_____.

2. If SP= ₹130, L= ₹20,then CP = _____

3. Complement of 48^0 = _____

4. $\dfrac{256}{1000}$ = _____(write in decimals)

5. 20 % of ₹700 is _____

6. When two parallel lines are cut by a transversal ,then the sum of allied angles are _____

7. $\dfrac{126}{210}$ in the simplest form is _____

8. A sum of ₹15000 amounts to ₹17540. The simple interest earned is _____

9. The sum of 5ab, -16ab, -4ab is _____

10. The co-efficient of x^2 in $4x^2y^2$, is _____

1

Q2].

1. Mr Shah borrowed ₹15,200 at 9.5 % per annum for 2 years.How much money did he pay to clear the loan? (3m)

2. Ajay saves 30% of his montly income.if he saves ₹4200 every month.What is his montly income? (3m)

3. $10\frac{1}{2} - [\,8\,\frac{1}{2} + \{6 - (\,7 - 3\,\frac{1}{2} - 1\frac{1}{2}\,)\,\}\,]$ (4m)

Q3] .

1. If two supplementary angles are in the ratio 5:7 find the measure of the angles. (3m)

2. The cost of a computer table is ₹2200. It was sold at a profit of 20%. Find its selling price. (3m)

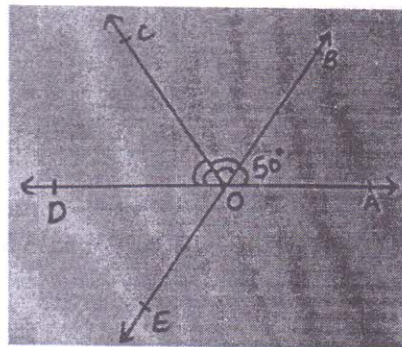3. Simply $(xyz - x^2y + 3x)\,(yz + 6 + 2xy)$ (4m)

Section B

Q4].

1. In the adjoining figure. (4m)

   $\angle AOB = 50^0$ and $\angle BOC = \angle COD$

   Find the measure of
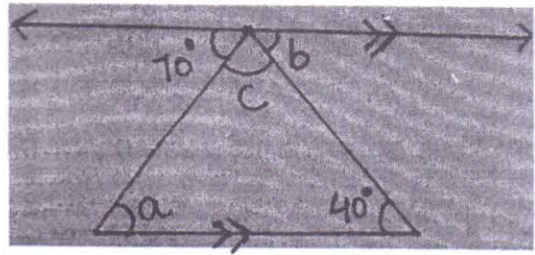
   a) $\angle BOC$
   b) $\angle COE$

2. Divide $x^3 + 5x^2 + 2x - 8$ by $x + 2$ (3m)

3. If a builder can construct a house using 42 workers in 126 days .How many workers are required to complete the same work in 84 days? (3m)

Q5].

1. Construct $\angle XYZ = 135^0$ using compass and ruler only (3m)

2. Subtract 2a-3b+4c from the sum of a+3b-4c and 4a-4b+9c (3m)

3. If ₹20000 amounts to ₹25000 in 2 years at certain rate of interest per annum. In what time will ₹5528 amounts to ₹11056 at the same rate? (4m)

Q6].

1. In the given figure,
The directed lines are parallel
to each other.
Find the angles a , b and c?

(3m)

2. If the product of two numbers is 212.5, and one of the number is 1.7 , find the other number?. (3m)

3. A can paint a house in 16 days and B can paint it in 10 days .how long will it take to paint the house if they both work together ? (4m)