GREEN LAWNS HIGH SCHOOL

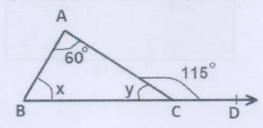
FINAL EXAMINATION 2020-21

SUBJECT: MATHEMATICS	CLASS: VII
TIME: 1 HOUR 15 MINUTES	MARKS: 40

Note:

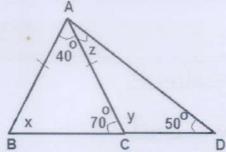
- All answers for this paper to be written on the composition sheet.
- You will not be allowed to write during the first 10 minutes. Use this time to read the paper carefully.
- The time given at the head of this paper is the time allowed for writing the answers.
- · Working must be shown for all the questions.
- If needed, rough work must be done in rough work column only, besides the sum, on the same page.
- All the questions are Compulsory.
- Write your Roll No., Name and Class-Div on the right hand side top corner on every page of your composition-sheet.
- Leave a line after solving each sum.
- After you finish writing the paper, number all the pages, click bright and clear pictures, include all the pictures into one PDF, rename that PDF with your Roll No., Name, Class-Div, math and send it to your math teacher according to his/her instruction.

Question 1	(10)
1) Find the median and mode of: 45, 42, 44, 41, 45, 42, 43, 45, 41.	(2)
2) Find the mean of first five multiples of 4.	(2)
3) Find the value of x and y in the following figure.	(3)



4) Subtract
$$3x^2 - 7xy + 8y^2$$
 from $-9x^2 + 8xy - 8y^2$. (3)

3) The following \triangle ABC is an isosceles triangle. Find the value of x, y and z. (4)



Question 3 (10)

1) Multiply: $(2a^2 +b)(3a^2 -b)$ (3)

2) The diameter of a circular ground is 42 m. Find the cost of fencing it at the rate (3) of Rs. 90 per m. (Take $\Pi = \frac{22}{7}$)

3) Simplify using laws of indices and express your answer with positive index: (4)

i) $3p^2 \times p^7 \div p^3$

ii) $(a^2)^3 (x^2)^{-3}$

Question 4 (10)

1) The following data shows the ages (in years) of 20 athletes taking part in annual (3) athlete meet. Prepare a frequency distribution table.

13, 12, 14, 11, 13, 15, 13, 12, 15, 13,

14, 11, 13, 15, 13, 12, 14, 15, 13,13.

2) A sum of Rs. 41,000 becomes Rs. 47,560 in 2 years. Find the rate of interest. (3)

3) Find the area of the shaded portion. (4)

