

**GREENLAWNS HIGH SCHOOL  
FINAL EXAMINATION 2022**

**STD: 7**  
**SUBJECT: MATHEMATICS**

**MARKS: 40**  
**TIME: 1 HOUR**

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**NOTE:**

- 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.
- All the questions are compulsory.
- Write your *Name, Roll no., Class-Div.* and *Page number* in the right hand side top corner of every side of your composition sheet.
- After you finish your paper, click a clear photo of each page of your answer sheet, convert all the images into a **ONE PDF** and rename it as follows: *Roll No., Name, Class-Div. and Math Final Exam.* And upload it on teams under given assignment.

**Question: 1** **(10)**

- 1) Evaluate:  $(\frac{-3}{4})^3$  (2)
- 2) Solve:  $5x + 14 = 8x - 1$  (2)
- 3) Simplify giving answers with positive index:  $(p^2)^3 (p)^{-2}$  (2)
- 4) On what sum of money does the S.I. for 4 years at 8% p.a. will become Rs. 3200. (2)
- 5) The circumference of a circle is 660 cm. Find its diameter. (Take  $\Pi = \frac{22}{7}$ ) (2)

**Question: 2** **(10)**

- 1) Sand and cement are mixed in the ratio 5:7 to make a slab of concrete. If the slab of concrete weighs 15.6 kg, how much cement was used to make it? (3)
- 2) Evaluate using laws of indices:  $8^2 \times 8^4 \div 8^3$  (3)
- 3) Solve:  $\frac{4p-3}{6} - \frac{p-3}{3} = 4$  (4)

**Question: 3** **(10)**

- 1) Express 1260 in exponential form. (3)
- 2) The simple interest earned on a certain sum in 7 years is 35% of the sum. Find the rate of interest. (3)
- 3) A rectangular lawn is 21 m long and 16 m wide. Find- (4)
  - i) the cost of fencing it at the rate of Rs. 50 per m.
  - ii) area of the rectangular lawn.

**Question: 4**

**(10)**

- 1) Roshan invested Rs. 5600 at  $3\frac{1}{4}\%$  p.a. for 6 years. Find the amount he will get on maturity. (3)
- 2) Find the third proportional to 6.4 and 16. (3)
- 3) Find the area of the shaded region in the following figure. (Take  $\Pi = \frac{22}{7}$ ) (4)

