09.01.20   TT –MATHS

STD:XI (Maj)   Marks:25

1. Write first five terms of $a_n = (-1)^{n-1} 5^{n+1}$.

2. Find 12th term of G.P. whose 8th term is 192, and the common ratio is 2.

3. The sum of first three terms of G.P. is 16 and the sum of next three terms is 128. Determine the first term, the common ratio and the sum of n terms of G.P.

4. If a,b,c and d are in G.P.
Show that $(a^2+b^2+c^2)(b^2+c^2+d^2) = (ab+bc+cd)^2$.

5. What will Rs. 500/- amounts to in 10yrs, after its deposit in a bank which pays annual interest rate of 10% compounded annually.

09.01.20   TT –English

STD:XI (Con)   Marks:25

I. Answer the following questions: 3x3=9

1. What was wrong in the pearson family in the chapter 'Mother's Day'?

2. What kind of a personality does Mrs. Fitzgerald have?

3. Mention some remarkable changes in Mrs. Annie pearson's behavior that shocked both Doris and Cyril.

II. Answer the following questions in detail: 4x2=8

4. In the play 'Mother's Day', it is observed that Annie pearson is the axis of the pearson family, around whom the family members depend for everything. However, She is not respected by them. Why?

5. Today a woman shoulders all the responsibilities at home as well as outside, but she is still exploited. Write your views on the 'Need for woman empowerment?

III. Writing skills: (8 Mark)

6. a) Write a speech in 150- 200 words on the importance and need of research in every field. The speech is to be delivered on 'Science Day' at a public function.   (OR)

   b) During your summer Vacations, you visited Haridwar along with your family. Describe your experience in the form of a narrative in 150-200 words.