





7. Define communication. Explain the barriers for effective Communication.
8. Highlight the key roles of department of Higher education in India.

**PART - B**

**Answer any Four of the following questions. Each question carries 10 marks.**

**(4×10=40)**

9. a) 8 men working for 9 hours a day complete a piece of work in 20 days. In how many days can 7 men working for 10 hours a day complete the same piece of work.  
b) How many minutes does Aditya take to cover a distance of 400m, if he runs at a speed of 20 km/hr.
10. a) A man takes 3 hours 45 minutes to row a boat 15km downstream of a river and 2 hours 30 minutes to cover a distance of 5 km up stream. Find the speed of the river current in km/hr.  
b) Find the number of bricks, each measuring 24cm \* 12cm \* 8cm, required to construct a wall 24 m long 8 m high and 60 cm thick, if 10% of the wall is filled with mortar.
11. a) What was the day of the week on 26<sup>th</sup> January, 1950.  
b) How many arrangements can be made out if the letters of the word 'ENGINEERING'.
12. a) Explain the characteristics of the Learner.  
b) Write a short note on factors affecting teaching.
13. Explain with an example various types of Research.
14. Write a short note on
  - a) Professional / Technical Education
  - b) AICTE, UGC

