

Assignment No. 1

Course Code: DECAP516

Registration Number: _____

Instructions:

- a. Attempt all questions given below in your own handwriting. Assignment in typed format will not be considered for evaluation.
- b. The student has to complete the assignment in the allocated pages only. Any other page in case utilized shall not be considered.

Q1.

[10 Marks] [CO1, L1]

(I). A and B together can complete a piece of work in 24 days, B and C in 36 days and A and C in 48 days. In how many days, will all of them together complete the work?

A. 57.6 days B. 55.6 days C. 53.5 days D. 52.4 days

Sol.

(II). Two trains starting at the same time from 2 stations 240 km apart and going in opposite direction cross each other at a distance of 130 km from one of the stations. What is the ratio of their speeds?

11:13 B. 7:5 C. 13:11 D. 7:9

Sol.

Signature of the Student _____

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Note:-

CO: is the Course Outcome as per your course syllabus.

L1-L6: Learning level objectives as per Revised Bloom Taxonomy (RBT).

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Q2. Test

[10 Marks] [CO3, L2]

(I). A cistern is normally filled in 24 hours but takes another 6 hours longer to fill because of a leak in its bottom. If the cistern is full, the leak will empty it in:

- (a) 3 hours 30 minutes (b) 2 hours 30 minutes (c) 3 hours (d) 2 hours

Sol.

Q2.

(II). excluding stoppages, the speed of a bus is 56 mph and including stoppages, it is 49 mph. For how many minutes does the bus stop per hour?

- (a) 8 (b) 7.5 (c) 10 (d) 8.5

Sol.

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