

QUESTION 1: MOTION, ENERGY AND POWER

1.1 Define *acceleration*. (1)

1.2 The diagram in FIGURE 1 represents the motion of a train.

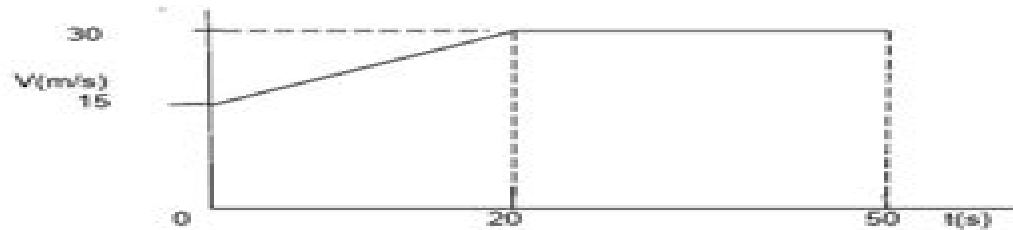


FIGURE 1

Determine each of the following:

1.2.1 Acceleration of the train during the first 20 seconds (2)

1.2.2 Total distance the train has travelled after 50 seconds (3)

1.3 A force of 250 N is exerted on a 20 cm long spanner to turn a nut through 120° .

Calculate each of the following:

1.3.1 Angle in radians (1)

1.3.2 Torque (2)

1.3.3 Work done (2)

1.4 A flat belt fits around a pulley with a diameter of 38 cm. The belt has a speed of 18,7 m/s and transmits 5 N per mm belt width. The effective pull in the belt is 420 N and the belt width is 21 cm.

Calculate each of the following:

1.4.1 Power transmitted by the belt in kW (2)

1.4.2 Tight-side force in the belt (1)

1.4.3 Pulley speed in r/s (2)

[16]

N3 Engineering Science Qp

Kathleen Armour



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