QUESTION 1: MOTION, ENERGY AND POWER

1.1   Define *acceleration*.   (1)

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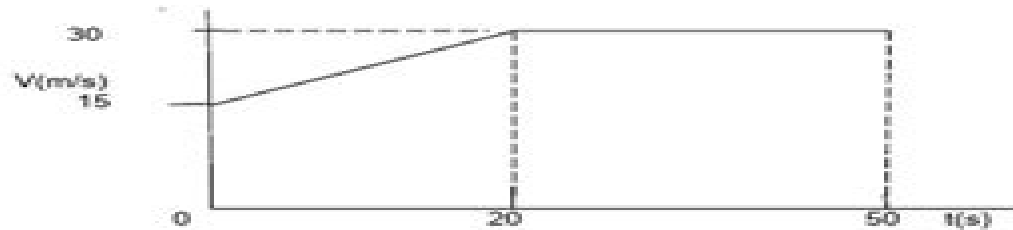

FIGURE 1

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

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