7th foundation WS-4 TEARL

According to newbook defination

change m momentum = m(v-u)

= m V = m x axF

7 2x01.5x4 = 12 Mgm/s

6

Perm au mara doubled palso doubled.

7

 $m_e = 9.1 \times 10^{\frac{3}{4}} \text{kg}$ ,  $V = 2 \times 10^{\frac{3}{4}} \text{m/s}$ momentum  $P = m_e V = 9.1 \times 10^{-31} \times 2 \times 10^{\frac{3}{4}}$  $= 1.9 \times 2 \times 10^{-23} \approx 1.91 \times 10^{\frac{23}{4}} \text{kgm/s}$ 

3

F = 30 N. , Q = 2 m/s2.

$$m = \frac{f}{a} = \frac{30}{2} = 15 \text{ kg}$$

(1)

m = 5 kg : a= 4 m/32

F = ma = 5+4 = 20N

$$m = 3000 \text{ kg}$$
  $F = 4000 \text{ N}$ 

$$a = \frac{P}{m} = \frac{4000}{3000} = \frac{4}{3} = 1.33 \text{ m/s}^2$$

## (D) (C)

## Advanced

m=ukg u=7mls, 
$$f=0.25cc$$
 V=8mls

Anikeal momentum  $P_{I}=mu=4x7=28$ mls

Final momentum  $P_{F}=mxy=4x8=32$  bymls

$$a = \frac{F}{m} = \frac{50}{10} = 5 \text{ m/s}^2$$

$$\Rightarrow \frac{P}{P^{1}} = \frac{V}{V^{1}}$$

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momentum p= mv = 300 x15 = 4500 kgm/s

No force in required because as Velocity: come

Acceleration a=0

(1)

pexistance per ton= 60 N

= 300 M.

A duanced

(1)

(12)