

1. The cubic capacity of a four-stroke over-square spark-ignition engine is 245 cc. The over-square ratio is 1.1. The clearance volume is 27.2 cc. What is the stroke length of the engine ?

(a) 4.36 cm  
(b) 5.36 cm  
(c) 6.36 cm  
(d) 7.36 cm

2. A 42.5 kW engine has a mechanical efficiency of 85%. If the frictional power is assumed to be constant with load, what is the mechanical efficiency at 60% of the load ?

(a) 44.2%  
(b) 40.0%  
(c) 66.3%  
(d) 77.3%

3. A single-cylinder engine running at 1800 rpm develops a torque of 8 N-m. The indicated power of the engine is 1.8 kW. What is the loss due to friction power as the percentage of brake power ?

(a) 9.36%  
(b) 19.36%  
(c) 29.36%  
(d) 39.36%

4. A gasoline engine working on Otto cycle consumes 8 litres of gasoline per hour and develops 25 kW. The specific gravity of gasoline is 0.75 and its calorific value is 44000 kJ/kg. What is the indicated thermal efficiency of the engine ?

(a) 14.1%  
(b) 24.1%  
(c) 34.1%  
(d) 44.1%

*Directions for the following two (02) items :*

*Read the following information and answer the two items that follow :*

The bore and stroke of a water-cooled, vertical, single-cylinder, and four-stroke diesel engine are 80 mm and 110 mm respectively and the torque is 23.5 Nm.

5. What is the brake mean effective pressure of the engine ?

(a) 1.01 bar  
(b) 2.01 bar  
(c) 3.26 bar  
(d) 5.34 bar

6. What is the mean effective pressure if its rating is 4 kW at 1500 rpm ?

(a) 3.26 bar  
(b) 4.26 bar  
(c) 5.78 bar  
(d) 6.46 bar

7. A refrigerator operating on reversed Carnot cycle extracts 500 kJ/min heat from a refrigerated space being maintained at  $-18^{\circ}\text{C}$  and rejects heat to the atmosphere at  $27^{\circ}\text{C}$ . What is the work input required to run the refrigerator ?

(a) 42.46 kJ/min  
(b) 55.24 kJ/min  
(c) 66.36 kJ/min  
(d) 83.66 kJ/min

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