

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

# Mechanical Technology 2012grade 1exam Paper

**M Mark**



**Mechanical Technology 2012grade 1exam Paper:**

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In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Mechanical Technology 2012grade 1exam Paper**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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