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B. TECH.**SIXTH SEMESTER EXAMINATION, 2012-13****INTERNAL COMBUSTION ENGINES**Time : **3 Hours**Total Marks : **100**

Note : (i) Attempt **ALL** questions.
 (ii) Choices are given in each question set.
 (iii) Assume suitable data, if needed in reasonable manner.

1. Attempt any **Four** of the following questions: **5 x 4 = 20**
- (a) Derive an expression of thermal efficiency for otto Cycle.
 - (b) Discuss merits and demerits of using alternative fuels.
 - (c) What is Carburetor? Discuss essential features of good commercial carburetor for automotive engines.
 - (d) Discuss effect of following engine variables on flame propagation in SI engines:
 (i) Compression Ratio (ii) Engine Speed
 (iii) Mixture Initial temperature
 - (e) "Auto Ignition is the cause of detonation in SI Engine." Justify the statement.
 - (f) Name the various components of a battery ignition system and explain any two of them briefly.
2. Attempt any **Four** of the following questions: **5 x 4 = 20**
- (a) Explain fuel injector with neat sketch.
 - (b) Explain demerits of engine over cooling and under cooling.
 - (c) Explain Crank Case Ventilation.
 - (d) Explain how supercharging of CI Engine is done.

1**P.T.O.****ME-602**

- (a) What are turbochargers?
- (f) What is meant by volumetric efficiency of a reciprocating compressor? How is it affected by:
 (i) speed of compressor
 (ii) delivery pressure
3. Attempt any **Two** of the following questions: **10 x 2 = 20**
- (a) The following data refer to a 4-stroke double acting diesel engine having cylinder diameter 200mm and piston stroke 350mm:
- | | |
|------------------------|-----------|
| m.e.p. on cover side | = 6.5 bar |
| m.e.p. on Crank side | = 7 bar |
| Speed | = 420 rpm |
| Diameter of piston rod | = 20mm |
| Dead load on the brake | = 1370 N |
| Spring balance reading | = 145 N |
| Brake wheel diameter | = 1.2m |
| Brake rope diameter | = 20mm |
- Calculate the mechanical efficiency of the engine.
- (b) Explain in detail the combustion process of C.I. engines. Also discuss the effect of following factors on delay period:
 (i) Fuel properties
 (ii) Type of combustion chamber
 (iii) Injection advance
- (c) Explain with neat labelled diagram the working and construction of solex carburetor.
4. Attempt any **Two** of the following questions: **10 x 2 = 20**
- (a) An engine working on Otto cycle, in which the salient points are 1, 2, 3 and 4 has upper and lower temperature limits T_u & T_l . If the maximum work per kg of air is to be done, show that the

ME-602

- (b) Enumerate lubrication system and explain dry sump lubrication system with neat sketch. Also list advantages of multigrade oils.
- (c) Explain with neat sketch "thermostat cooling" method of cooling IC engines. Also explain the main advantage of using thermostat in the cooling system.
5. Attempt any **Two** of the following questions: **10 x 2 = 20**
- (a) Explain with neat diagram the construction and working of a reciprocating compressor. Also derive expression for its efficiency.
- (b) A trial on a 2 stage single acting reciprocating air compressor gave following data:
- FAD = $6 \text{ m}^3 / \text{min}$
- Atmospheric pressure and temp = 1 Bar and 27°C
 Delivery pressure = 40 Bar
 Speed = 400 rpm
 Intermediate pressure = 6 Bar
 Temp. at the inlet to the Second Stage = 27°C
 Law of compression = $PV^{1.2} = \text{constant}$
 Mechanical efficiency = 80%
 Stroke of L.P. = diameter of L.P. = stroke of H.P.
 Calculate: (i) Cylinder diameters
 (ii) Power required neglect clearance
- (c) Explain the following:
 (i) Scavenging in 2-stroke engine.
 (ii) Exhaust emission and its control.

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