

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Describe the working of Fuel Injection system along with its components in detail.
- Q.24 Describe the constructional detail and working of Lubrication system.
- Q.25 What are different methods of cooling an I.C engine? Also explain the defects in cooling system and their rectification.

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3rd Sem / Agriculture

Subject : IC Engine

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 The compression ratio of a Diesel engine is
- a) 6:1 to 11:1 b) 12:1 to 22:1
c) 1:1 to 5:1 d) None of the above
- Q.2 The component which delivers finely atomized fuel under high pressure to the engine
- a) Fuel Filter b) Fuel Injector
c) Turbocharger d) High pressure pipe
- Q.3 A carburettor is used in
- a) Diesel engine
b) Compression Ignition Engine
c) Spark Ignition Engine
d) None of the above

- Q.4 In cooling system, the thermostat operates at about
- a) 160 °C b) 80 °C
 c) 40 °C d) 25 °C
- Q.5 The ratio of brake horse power to indicated horse power is
- a) Mechanical efficiency
 b) Thermal efficiency
 c) Volumetric efficiency
 d) Relative efficiency
- Q.6 Piston compression rings are made of _____
- a) Cast steel b) Cast iron
 c) Aluminium alloy d) Copper

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Define thermal efficiency.
- Q.8 Write the function of connecting rod.
- Q.9 Write the function of piston ring.
- Q.10 Write two objectives of Lubrication.
- Q.11 Give the function of fuel injector.
- Q.12 The thermostat valve operates at temperature _____

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SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 What are the different types of Air Cleaner?
- Q.14 Write down the criteria for classification of IC engine?
- Q.15 Compare the petrol engine and diesel engine.
- Q.16 What is Wankle engine? Explain its working.
- Q.17 Describe the splash system of Lubrication.
- Q.18 What are different types of alternate fuels used in engines?
- Q.19 What are different types of lubricants used in engines?
- Q.20 Describe the working of otto cycle along with diagram.
- Q.21 Explain the working of Prony brake dynamometer.
- Q.22 Explain the various defects in cooling system.

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