

SECTION-D

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

- Q.23 What is the importance of testing of IC Engines ?
Explain any one test for testing an IC Engine in detail
- Q.24 What is the purpose of cooling an engine ? Also explain the different types of cooling systems .
- Q.25 What are the different types of lubrication systems ?
Explain the working of lubrication system along with different components and their functions.

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Roll No.

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 power generated in the engine cylinder and received by piston
- a) Brake power b) Indicated power
c) Belt power d) PTO power
- Q.2 The ratio of total cylinder volume to clearance volume is called
- a) Swept volume b) Crank radius
c) Compression ratio d) Crank throw
- Q.3 Crankcase ventilation is the process of removing
- a) Water vapours b) Fuel vapours
c) Combustion gases d) All of these

- Q.4 Compression ratio of a petrol engine lies in the range of
- a) 7 to 10 b) 14 to 20
 c) 2 to 4 d) None of the above
- Q.5 The lowest temperature at which the lubricating oil will flash with a small flame .
- a) Fire point b) Flash point
 c) Pour point d) Cloud point
- Q.6 The internal diameter of cylinder is called
- a) Bore b) Stroke
 c) Stroke bore ratio d) Swept volume

SECTION-B

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

- Q.7 Define piston displacement .
- Q.8 Write the function of oil pressure relief valve.
- Q.9 What the function of fuel filter?
- Q.10 Write the function of oil ring .
- Q.11 Give the function of thermostat valve
- Q.12 The connecting rod converts reciprocating motion to _____

SECTION-C

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

- Q.13 Describe the different types of fuel filters.
- Q.14 What are different types of nozzles used in fuel injection system ?
- Q.15 What are the parameters to be considered for testing of IC engines?
- Q.16 Explain the working of diesel cycle along with diagram.
- Q.17 Describe any five properties of engine lubricants .
- Q.18 Explain the working of Rope brake dynamometer.
- Q.19 Describe the working of four stroke cycle engine.
- Q.20 How would you classify an internal combustion engine ?
- Q.21 What are different Parameters of testing of IC engine?
- Q.22 What is the different between wet and dry type air cleaner?