

Q.21 What is the difference between internal and external combustion engine. (CO1)

Q.22 Give any 5 classifications of IC engines. (CO1)

SECTION-D

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

Q.23 What do you mean by lubrication? Explain the working of lubrication system along with different components and their functions. (CO4)

Q.24 Explain the working of fuel injection system of an I.C. Engine. (CO3)

Q.25 What is the importance of testing IC Engines? Explain any one test for testing an IC Engine in detail. (CO5)

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Roll No.

**3rd Sem.
Branch : Agriculture
Sub.: IC Engine**

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (6x1=6)

Q.1 A compression ignition engine works on (CO2)

- A) Diesel cycle b) Otto cycle
- c) Carnot cycle d) Rankine cycle

Q.2 In S.I. engine the charge is ignited with the help of a _____ (CO1)

- a) Carburettor b) Fuel injector
- c) Spark plug d) Super Charger

Q.3 The efficiency that determines how efficiently, the fuel is utilized. (CO5)

- a) Mechanical efficiency b) Thermal efficiency
- c) Volumetric efficiency d) Relative efficiency

- Q.4 The lowest temperature at which the lubricating oil will flash with a small flame. (CO4)
- a) Fire point b) Flash point
- c) Pour point d) Cloud point
- Q.5 Compression ratio of a Petrol engine is (CO1)
- a) 7 to 10 b) 14 to 20
- c) 2 to 4 d) None of the above
- Q.6 Crankcase ventilation is the process of removing.
- a) Water vapours b) Fuelvapours (CO4)
- c) Combustion gases d) Allof these

SECTION-B

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

- Q.7 Define Compression ratio. (CO1)
- Q.8 What is the function of thermostat valve? (CO4)
- Q.9 What is the use of primary fuel filter? (CO3)
- Q.10 Define mechanical efficiency. (CO5)

- Q.11 Write down the function of connecting rod. (CO1)
- Q.12 Write down the function of Radiator. (CO3)

SECTION-C

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

- Q.13 What is Rotary/Wank leengine? Describe it working. (CO1)
- Q.14 What are various defects in cooling system? (CO4)
- Q.15 What are different types of nozzles used in fuel injector? (CO3)
- Q.16 Describe air cleaner and its types. (CO2)
- Q.17 Describe different types of lubricants used in engines. (CO4)
- Q.18 Describe the working of otto cycle. (CO2)
- Q.19 Describe the working of Ropbrake dynamometer. (CO5)
- Q.20 Describe any five properties of engine lubricants. (CO4)