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Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(ME) (E-I 2011 Onwards) (Sem.-6)

IC ENGINES

Subject Code : DE/ME-1.1

M.Code : 71189

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A**1. Answer briefly :**

- a. Define sterling cycle.
- b. Write a difference between two stroke and four stroke engine.
- c. What is fuel air cycle?
- d. Define calorific value of fuel.
- e. Write two properties of air fuel mixture.
- f. What is fuel filter?
- g. What is compression ratio?
- h. What is knocking?
- i. What is the ratio of air and fuel mixture in diesel engine?
- j. Define engine blow.

SECTION-B

2. Explain with diagram injection pump governor.
3. What is carburetor? And write down basic requirements from it.
4. Explain abnormal combustion and knocking.
5. Explain valve timing diagram of two stroke petrol engine.
6. Explain methods used to determine minimum air quantity supplied to gases.

SECTION-C

7. What is super charger, explain its types and its purpose?
8. Explain different types of fuel injection systems.
9. Explain all the devices used to meet the requirements of an ideal carburetor.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.