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Total No. of Pages :02

Total No. of Questions : 09

**B.Tech.(ME) (2012 Onwards E-II) (Sem.-7,8)****I.C.ENGINES****Subject Code : DE/ME-1.1****M.Code : 71997****Time : 3 Hrs.****Max. Marks : 60****INSTRUCTION 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 a student has to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and a student has to attempt any **TWO** questions.

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

- a. Define heat engine.
- 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. Define knocking.
- h. What is supercharging?
- i. Define brake horse power.
- j. What is the function of turbocharger?

### SECTION-B

2. Explain with diagram injection pump governor.
3. What is carburetor? And write down basic requirements from it.
4. Explain the difference between actual and fuel air cycle.
5. Explain valve timing diagram of four stroke petrol engine.
6. Explain methods used to determine minimum air quantity supplied to gases.

### SECTION-C

7. Explain arrangement of supercharger and its installation.
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.**