

Roll No.

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.