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Roll No

Total No. of Pages :02

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B.Tech.(ME) (2011 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. Draw diagram of air standard cycle.
- b. Write a difference between two stroke and four stroke engine.
- c. Write two differences between SI and CI engines.
- d. Define calorific value of fuel.
- e. What is air fuel mixture?
- f. What is air filter?
- g. Define knocking
- h. What is supercharging?
- i. Define engine blow.
- j. What is the function of turbocharger?



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SECTION-B

- 2. Explain the properties of air fuel mixture.
- 3. What is carburetor? And write down basic requirements from it.
- 4. Explain the difference between actual and fuel air cycle.
- 5. How a turbocharger works?Explain.
- 6. Explain methods used to determine minimum air quantity supplied to gases.

SECTION-C

- 7. Explain thermodynamics analysis of sterling, Ericson, Dual and otto cycle.
- 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.