

NOV-DEC  
2011

Total No. of Questions—12]

[Total No. of Printed Pages—4+2

**[4062]-117**

**S.E. (Mech.) (Second Sem.) EXAMINATION, 2011**

**INTERNAL COMBUSTION ENGINES**

**(2008 PATTERN)**

**Time : Three Hours**

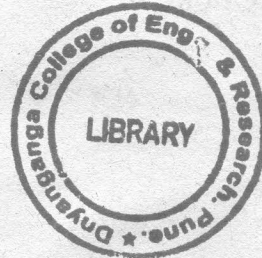
**Maximum Marks : 100**

- N.B. :-** (i) Answer any *three* questions from each Section.
- (ii) Answers to the two Sections should be written in separate answer-books.
- (iii) Neat diagrams must be drawn wherever necessary.
- (iv) Figures to the right indicate full marks.
- (v) Use of logarithmic tables, slide rule, Mollier charts, electronic pocket calculator and steam tables is allowed.
- (vi) Assume suitable data, if necessary.

**SECTION I**

1. (a) Derive an expression for thermal efficiency of a Diesel cycle with usual notations. Hence show that the efficiency of the Diesel cycle is lower than that of Otto cycle for the same compression ratio. Comment why the higher efficiency of Otto cycle compared to Diesel cycle have no practical importance.

[9]



P.T.O.

