

1063139

A-HUF-P-OEA

## MECHANICAL ENGINEERING

### Paper I (Conventional)

Time Allowed : Three Hours

Maximum Marks : 200

#### INSTRUCTIONS

*Please read each of the following instructions carefully before attempting the questions :*

*There are SEVEN questions in the paper.*

*Candidates are required to attempt FIVE questions in all.*

*Question no. 1 is compulsory.*

*Out of the remaining SIX questions, attempt any FOUR questions.*

*The number of marks carried by a question/part is indicated against it.*

*Unless otherwise mentioned, symbols and notations have their usual standard meanings.*

*Assume suitable data, if necessary and indicate the same clearly.*

*Neat sketches are to be drawn to illustrate answers, wherever required.*

*All parts and sub-parts of a question are to be attempted together in the answer book.*

*Attempts of questions shall be counted in sequential order. Unless struck off, attempt of a question shall be counted even if attempted partly.*

*Answers must be written in ENGLISH only.*

*Any page or portion of the page left blank in the answer book must be clearly struck off.*

*Values of constants which may be needed :*

*Universal gas constant  $R = 8.314 \text{ kJ/kg mole-K}$ .*

*For air  $R = 0.287 \text{ kJ/kg-K}$ ,  $C_p = 1.005 \text{ kJ/kg-K}$ ,*

*$\gamma = 1.4$ ,  $M = 28.97 \text{ kg/kg-mole}$*

# Mechanical Engineering Paper I Upsc

**S Ben Porath**



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