

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

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

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