

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

Puja Mehta



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web jacob and esau make peace 33 then jacob looked up and saw esau coming with his 400 men so he divided the children among leah rachel and his two servant wives 2 he put the servant wives and their children at the front leah and her children next and rachel and joseph last 3 then jacob went on ahead as he approached his brother he bowed

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web 11 his head is buried near jacob the fates of esau and jacob merged even at death jacob passed on in egypt and his body was taken by his sons to be buried in the cave of machpelah in the land of canaan to their consternation however there was esau laying dubious claims to the last remaining plot in the cave

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web 33 jacob looked up and there was esau coming with his four hundred men so he divided the children among leah rachel and the two female servants 2 he put the female servants and their children in front leah and her children next and rachel and joseph in the rear 3 he himself went on ahead and bowed down to the ground seven times as he appr

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web he was the first of the two sons of jacob and rachel jacob s twelfth named child and eleventh son he is the founder of the israelite tribe of joseph his story functions as an explanation for israel s residence in egypt

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