

MECHANICAL ENGINEERING

Paper I

Time Allowed : Three Hours

Maximum Marks : 300

Question Paper Specific Instructions

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

*There are **EIGHT** questions divided in **TWO** sections.*

*Candidate has to attempt **FIVE** questions in all.*

*Questions No. 1 and 5 are **compulsory** and out of the remaining, any **THREE** are to be attempted choosing at least **ONE** question from each section.*

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

Wherever any assumptions are made for answering a question, they must be clearly indicated.

Diagrams / Figures, wherever required, shall be drawn in the space provide for answering the question itself.

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

Psychrometric Chart is given on Page No. 8.

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

Any page or portion of the page left blank in the Question-cum-Answer Booklet must be clearly struck off.

*Answers must be written in **ENGLISH** only.*

UpSC Mechanical Engineering Question Paper

C Cleary



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Unveiling the Magic of Words: A Report on "**Upsc Mechanical Engineering Question Paper**"

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electric energy into mechanical energy it works by using a single phase power supply they contain two types of wiring hot
and neutral their power can reach 3kw and supply voltages vary in unison they only have a single

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speed developed by the repulsion motor depends upon the position of the brushes the single phase repulsion motor draws a
low starting current as compared to other single phase motors characteristics of repulsion start induction

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web mar 12 2019 single phasing is a power supply related electrical fault in case of an induction motor it occurs when one
of the 3 phase circuits in a three phase motor is opened hence the remaining circuits carry excess current this condition of
single phasing is usually caused when

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a single phase sets up an oscillating magnetic field that goes back and forth rather than a rotating magnetic field see bottom
figure

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or asynchronous motor always relies on a small difference in speed between the stator rotating magnetic field and the rotor shaft speed called slip to induce rotor current in the rotor ac winding

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which rotates around the stator the stator of single phase motor consists of two winding main and auxiliary winding the current flow through fan due to high thermal and

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