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the point at which all the
area could be concentrated

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(Common to CE, ME, CSE, PCE,

IT, Chem E, Aero E, AME, Min

E, PE, Metal E) Time: 3

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hours Max. Marks: 70

Question Paper Consists of
Part-A and Part-B Answering
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should be answered from Part-
B *****

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The same formula, with y_i substituting for x_i , gives us the y coordinate of the centroid. Finding the Centroid of Two Dimensional Shapes Using Calculus An

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integral can be used to find the centroid of shape too complicated to be broken down into its primary parts.

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is a geometrical property of
a body When density of a
body is uniform throughout,
centroid and CM coincide

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Formulas $T F = \text{Efficiency } d$

$= d \text{ } \text{Energy: Work } W = \text{work}$

$F = \text{force } d = \text{distance Fluid}$

Mechanics $1 T' L \text{ Power (Guy-}$

$L' L P 1 V 1 = P 2 V 2 B y$

$' L Q = A v A 1 v 1 = A 2 v 2$

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+ V absolute pressure =
gauge pressure + atmospheric
pressure P = absolute
pressure Force A = Area V =
volume T = absolute
temperature Q = flow ...

Definition of Centroid -

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Centroid and Centre of
Gravity - Engineering
Mechanics

Area Moments of Inertia

Products of Inertia: for
problems involving
unsymmetrical cross-sections
and in calculation of MI

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about rotated axes. It may be +ve, -ve, or zero •

Product of Inertia of area A w.r.t. x-y axes: x and y are the coordinates of the element of area $dA=xy$ $I_{xy} = \int xy \, dA$ • When the x axis, the y axis, or both are an

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product of inertia is

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centroid of an object in
-dimensional space is the
intersection of all
hyperplanes that divide into
two parts of equal moment
about the hyperplane.
Informally, it is the
"average" of all points of

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.For an object of uniform composition, the centroid of a body is also its center of mass.

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List of centroids -

Wikipedia

As both x and y axes pass through the centroid of the circular area, Equations (8.8a) and (8.8b) give the

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moment of inertia of circle
about its centroidal axes..
The above concept can be
extended to obtain the
moment of inertia of
semicircular and quarter
circular area as given
below. Fig.8.5 Moment of

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inertia of : (a) semicircle,
and (b) quarter circle

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