THERMAL ENGINEERING MODEL QUESTION PAPER FOURTH SEMESTER DIPLOMA COURSE IN MECHANICAL ENGINEERING

DERARTMENT OF TECHNICAL EDUCATION

DIPLOMA COURSE IN MECHANICAL ENGINEERING

FOURTH SEMESTER

MODEL QUESTION PAPER

THERMAL ENGINEERING-I

Time: 3Hrs **Max marks: 100**

Note:

1.Section-I is compulsory

2. Answer any **six full** questions from Section -**II, Section-III, and Section-IV**

Choosing at least **TWO** from each section

SECTION I

1 A) Fill in the blanks with appropriate words - **1X5**

I) The Second law of thermodynamics defines_____.

ii) The work done in constant volume process is _____

iii) _____ calorimeter is used for measuring calorific value of solid fuel

iv) The Value of gas constant(R) is _____.

v) The enthalpy of dry saturated steam _____with the increase in pressure

B) Write a note on Junkers gas calorimeter **5**

SECTION II

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atau partikel yang berotasi terhadap sumbu rotasi contoh soal rumus 2

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besar momen inersia dihitung dengan rumus untuk benda berupa partikel tunggal titik massa i mr 2 untuk beberapa partikel titik massa i Σ mr 2

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momen inersia terhadap sumbu x y yang melalui titik berat penampang z adalah izx atau ix 1 12 b h3 dan izy atau iy 1 12 h b3 momen inersia terhadap sumbu x adalah ix izx fb12 1 12 b h3 b h b12 1 12 bh3 b h 1 2b 2 1 12hb3 hb3 ix 1 3 bh3 momen inersia terhadap sumbu y adalah iy izy fa12 1 12 hb3 fa12 1 12 hb3 b h 1 2b

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membuat titik berat pita menentukan momen terhadap sumbu x mx dan sumbu y my selanjutnya menghitung titik berat tersebut dengan integral 4 untuk menghitung momen inersia langkahnya dimulai dengan membuat pita sejajar dengan garis l sumbu x dan titik berat pita kemudian dibentuk hasil kali luas

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sep 7 2023 x 100 8 2 104 mm 10 4 cm sementara untuk sumbu y karena masing masing elemen siku l100x100x10 posisi titik berat cy nya berjarak sama dari sumbu dasar maka titik berat gabungannya juga akan sama y cy 2 71 cm ada rumus umum mencari titik berat gabungan penampang berlaku juga untuk sumbu y

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partikel l 0 5 x 10 5 kg m2 2 rad s 1 x 10 5 kg m2 s 2

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