2MARKS QUESTION

Bury Describe the pumpose of Scavenging in IC Engine?
Bury Oiffmentiate between day bulb and wet bulb theompena-ture.

aus, Differentiate between accuracy and paricinsion.

Russ What is a tolansducer i Descoribe with any one Example.

amy State Hooke's Law?

any town peroposities of fluid?

Buss Differentiate between active and parsive transducer.

Quis Exploin Poisson's Ration.

aus) What one Newtonian and Non-Newtonian fluids?

any What are Internal Combustion Engine?

Christophia Cop of Hefenigenation?

auj Explain Coplanas Concussiont tosices.

aus What is difference blu storess and storain?

Bus what is difference blu shear force and bending Homent.

auss state Lani's theorem?

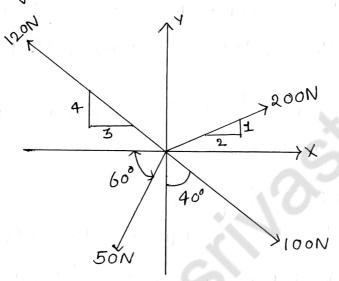
But What are statically deferminante beam?

Ques, Perove +Rat(COP) + I = (COP) HP Bus, What is Heat pumb. Ruy Define Esson ? Also its type? aux Diféne Calibo Hation? aux Worke two difference a storobe and 9 storobe PV3H di todW (LUD) and Calculate the specific Weight, density and specific garavity of IL en signed whose Weight is 7N.

5 MARKS QUESTION

Chus Daran the Stars-Starin Charle for Mild steel and descarbe its salient points. Also, daran the stars Charles for a ducitle Material, a barithe Material, and a plastic Material.

Bus, A system of four torces acting on a body is as shown in figure. Determine the resultant.



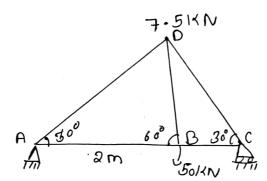
and woodbing parinciple of a 4-Statobe SI-Engine.

aus, Define Coefficient of penformance (cop) for a referringeration bystem. Why do we express the penformance in terms of (cop) instead of officiency? Also, Compare the Cops of a referringeration and heat pump.

Bens, Explain pascal's Law with help of a neat statch. What are its practicle applications? The small piston of a hydrolic lift has an area of 0.20m? A corr weighing 1.2×104 N sits on a rack Hounted on the large piston has an area of 0.90m? How large posice must be applied to the small piston

- to supposed the case.
- Quest Decacosible the Woodking of Centaritugae are Acriparo cooring pump.
- Burs Discuss the various bey elements of a Mechatronics system and Write any Jover-Mechatronics system.
- Ours Develop the siel ationship between E (young 's modulus), C (Sheasi Modulus), K (Bulk Modulus), M (possion statio)
- Of perton Tuerbine : Explain Constanu ction details
- duns What are Senson? Explain Classification of sensors based on various inputs and Outputs.
- Burst Explain the Working of domestic experigentation with the near startch.
- Buy What Authorics, Bionics and Avianics? White their applications?
- Quest With a neat and statch Explain the Wostling of four stands CI Engline.
- Clausified 9 Warlte their advantage and discoveringer.
- Chuy With a neat shotch Explain the woodling of two storate SI Engine.

Quest Determines the force in each member of the tours as shown in Fig.



Gens) Discuss the Woshling parinciple of an electoric vehicle. What are the Hajor demonits of those vehicles.

Bus At an axial lead of 22KN, a 45-mm-wide by 7.5mm thick polymide polymen ban elongater 5.0mm. While the ban width Contracts 0.25mm. The ban is 20mm long. At the 22KN load, the stress in the polymen ban is lum than its propositional limit.

Determine,

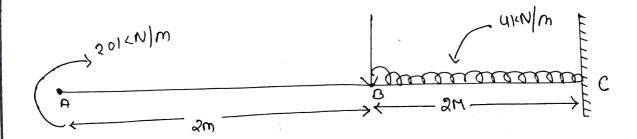
i) The Modulus et clasticity

ii) Polision's Ratio

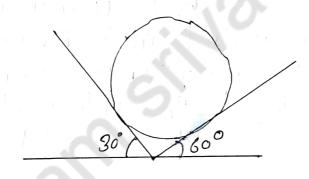
iii) The change in the boar thickness.

Busy What Osia parentara? Walite clawification of Parentara of parament instantments. Explain the Wighton of parameter and tope parentara guage with near statch.

Post a given centieleuser beam.



Bury A ball of Weight 120N yests in a shight angled groove, as shown in Fig. The sides of the groove are inclined to an angle of 30° and 60° to the hoorizontal. If all the surfaces are smooth, then determine the reactions at the point of Contact.



Buy Deraw shear forces and bending moment diagram for the beam as shown oin Fig. below. Also find the foint of Controllex Level if any.

