## apcode: 27381

A) what is base motal of rare metal thromocorples (4)

that their advantages & disadvantages.

\* Base metal of C! There are made by the combination

- A Base metal of ! There are made by the combination of pure metal and alloys or iron, copper and nickel.

  Hostly used to measuring lower marger on teny up to
- of pure metal fallogs of
  - 1 platinum and shodium for comp up to 17250 4
  - 1 tuysten, shotium and mojordenum see teng.
- \* Advantages / Disadvantages

  ENLIST two advantages Edisadvantages OF Base Grave

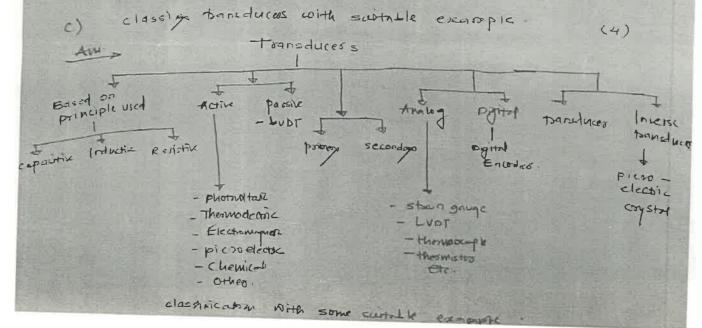
  metal HC
- B) The dead zone in a cashin prometer is 0.125 percent (4)

  of span the calibration is 400°C to 1000°C. What

  temp change might occur before it is detected t

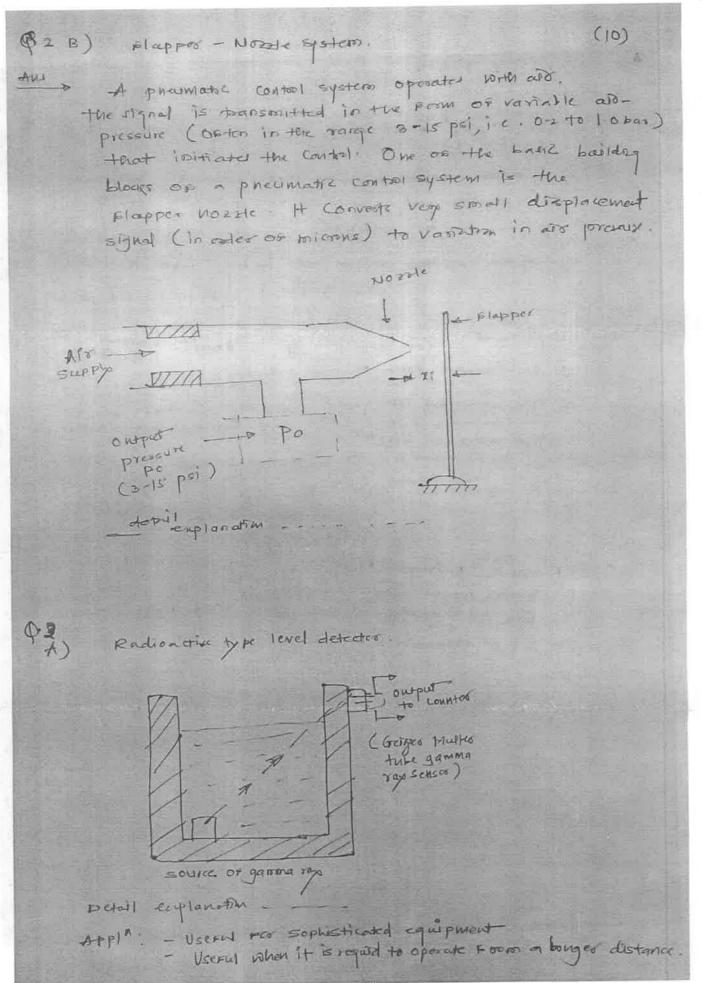
$$5pan = 1000 - 400 = 600^{\circ}c$$
 $pedd 20ne = 0.125 \times 600 = 0.75^{\circ}$ 

A change of o.75°C must occur before it is detected.

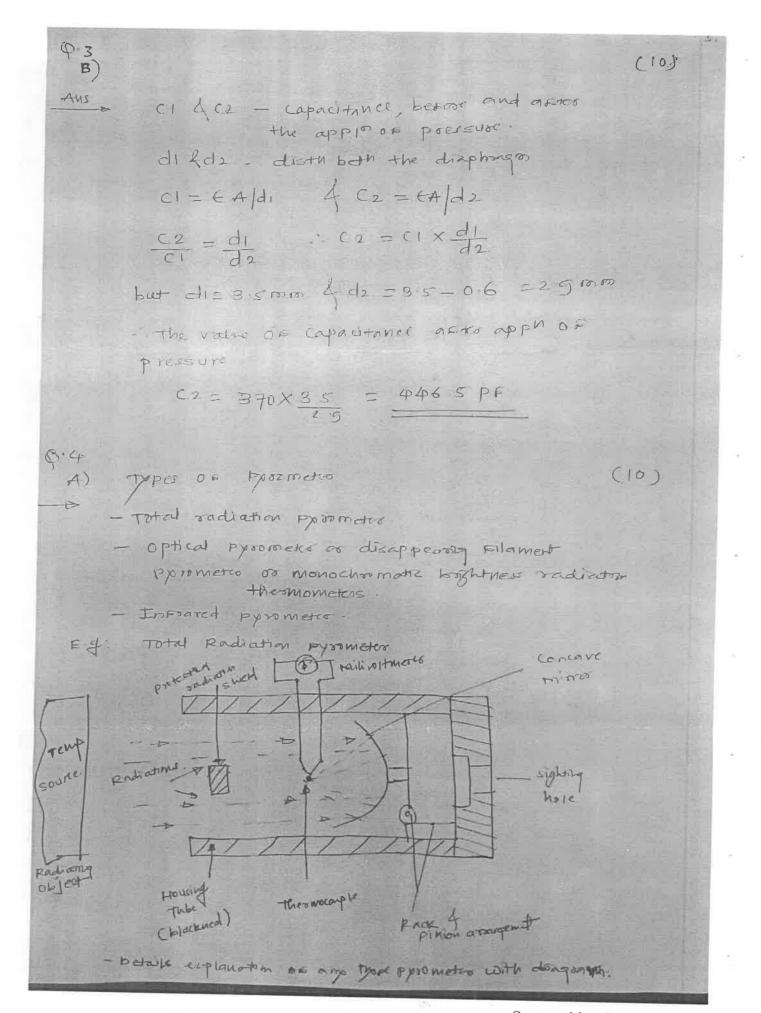


(4) D) Explain absolute humidity fictative humidity. = \* Absolute humidity; It is defined as The acto of the mass of water Vapour to the mass OF dop air in a given volume of the mixture & is denoted by W. Humidyo Ratio = 1900 06 Water vapour mass of dynair. & relative humidige denoted of RH or & Relative humidize (At a given toup) = water rapour actually present water vapour regioned for saturation Explain liquid level measurement way Float 9 WOT LVBT sigue with propos explanation of Florit & LVDT tope I iguil level meqsurement

(10) TABER OF ELLER. DODGE EDDGE ii) systemant Eross 11) Random Errors i) Gross Emas cover human mistakes in seculary Instrument and recording and calculating measurement results Eg! - God our comment Remedia : They three or even more readings should be taken care should be taken in reading frecovery data (ii) systematic Errors: @ Instrumental Essons -(B) Environwent EDTO surrounding conditions temp, hurriday, dust, NESSTIM ER @ Observerind Entres - parallan com Remedies Random (Residual) ETSTOR Errors remain even after the systematil entoss have been taken care of Also called Residual forms - Elyslanath Remedies



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(10). B) \* Law of Intermediate remposature LE a thermocopie produces a voltage AVa Fro function temp TigTz and - IF the same thermocapic produces a voltage DVB Rodyna temp T2 4 13 1000 - The thermocaple will produce a voltage OVA+DVb For for toup. TI fT3 DVb OVA+AVB DVa T3 \* Law or Intromediate Metal! AV The insertion of an intermediate metronal into a theomoraple cut will not assect the ems vottage output as long as the two new functions are at the some temp.

and the second of the second o

Construction of working of LVDT Primary FORMER Arm Sold from core displacement secondas

B.) The resistance or potentiament at the mount position - language contract The renormies on for present length = 10000/13 - 200 12 mas charge or relienance from the transmit position - CEDD - RECD - 1150 /2 displacement or wiper proporty remaind passion = HO 200 = 5 75 mm. (1) change or existance round its normal position = 7560-5000 = 2560-12 - displacement 2500 200 = 12.80000 Recolution - minm measurable activitance x more = 10x 1/200 - 005 mm Ann troo Hall Exect to meduces - 110) (20) - when an electric ried & magnetic ried are applied perpendicularly to the two I to surfaces of the material a voltage will be governed on the other surpres, which is I'm to look En = KH (30)/1 EN PORTA JONE OF EN In continuences "ky" proponermaticy commy Hall comment 19 Hall Erred Schla

6.8 sound pressure Level (Spl) meter (10) A SPI Meter is used for a coustil (sound that toquel through and megsurement. Hand held Pretumet with a rosion phone The disphage of soinophone rapands to changes in cets pressure canad by sound waves this movement OF Maphings , is the sound pressur deviation ( pascal pa), is converted to into an electrical signal (with) \* tolcasurement \_ (10) Lead wire compensation. To prevent the expect of lead resistance. Three wire method (B) Four- wire method CUITOUT Canadia willer Flow Path EER - Detil explanter of ays one method B required.

