SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, F	EROZEPUR
	ber of pages:[‡]
	per or pages (*)
Total number of questions:09	
B.TechCHE/ 4th Sem.	
Chemical Process Instrumentation	
Subject Code: BTCH-404	
Batch: 2011 onwards	
Time allowed: 3 Hrs	Max Marks:60
Important Instructions:	
Section A is compulsory  Section A is compulsory  Section B	
Attempt any four questions from section B	
Attempt any two questions from section C	
Assume any missing data	
PART A (10x 2 marks)	
Q. 1. Answer in brief:	
a) What is importance of measurement?	
b) List various expansion thermometers.	
c) What is principle of bimetallic thermometer? d) Define absolute pressure, vacuum and head	
e) Why recording is useful?	
f) List obstruction type flow meters.	
g) What is principal of Mass Chromatography?	
h) List three instruments to measure nuclear radiations and units.	
i) What principle is used in bubbler system to measure level?	
j) List various mechanical measurements.  PART B (4×5 marks)	
Q2: Discuss different characteristics of instruments with example.	
Q3: Explain Pirani gage.	
Q4: Flow of liquid is approximately 10 liters per minute. Discuss area	meter which can be used
to measure flow.	
Q5: Compare circular and strip recording charts.	
Q6: Discuss measurement of PH and define it.  PART C (2×10marks)	
Q7: How many ways we can measure the temperature of objects, which	are far away? Which
Q7: How many ways we can measure the temperature	
laws are applicable? Discuss one instrument.	overhead tank on shell
n a I lingram for reactor flaville couling water	
side and hot organic liquid flowing continuous.  Q9: Discuss about feed forward process and feed backward control.	
Q. DISCONDING THE RESERVE THE	