

**Sample Question Paper**

Course Name : Diploma in Chemical Engineering

Course Code : CH

Semester : Fifth

Subject Title : Chemical Instrumentation & Process Control

Marks : 100

**12208**

Time : 3 Hrs.

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**Instructions:**

1. All questions are compulsory.
2. Illustrate your answers with neat sketches wherever necessary.
3. Figures to the right indicate full marks.
4. Assume suitable data if necessary.
5. Preferably, write the answers in sequential order.

**Q.1 A) Answer Any THREE of the following.**

**12 Marks**

- a) List the four dynamic characteristics of measurement? Define two of them.
- b) Draw a labeled diagram of thermocouple and state it's principle.
- c) List two elastic deformation elements and give their pressure range in SI units.
- d) Draw labeled diagram of air purge level measurement. What is its limitation?

**Q.1 B) Answer Any ONE of the following.**

**06 Marks**

- a) Which sensor is used for temperature measurement of moving hot body? Draw the diagram and give it's principle.
- b) To measure the pressure below atmosphere which device you would use? Draw the labelled diagram.

**Q.2) Answer Any TWO of the following.**

**16 Marks**

- a) Draw the diagram of Capacitive Level measurement. State the principle and working. List two applications.
- b) Where do we use peristaltic metering pump? Draw and describe its working.
- c) Name the control action used for controlling the pressure in the reactor. Describe with diagram the working of Electronic controller used in above case.

# Question Paper In Instrumentation Diploma

**YCT Expert Team**



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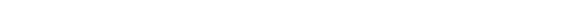
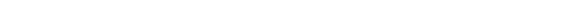

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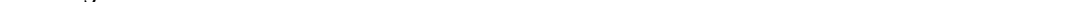
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