

No Preview  
Available

Total No. of Question : [4]

Registration No. : 

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**Programme Name : Bachelor of Chemical Engineering**  
**Regular T.Y.B.Tech. ESE (A.Y. 2023-24) Sem.V Nov.2023**  
**V SEMESTER ( 2021 BATCH)**  
**201CHL304-Chemical Process Instrumentation(TH)**

Duration : [ 11:00 AM - 01:00 PM ]

Date : 29 Nov, 2023

Day : Wednesday

Marks : 50

**Instructions :**

**1.Read questions carefully.**

(Q1) All question are compulsory. [20.0]

**CO :-** C304.1, C304.2, C304.3  
**Blooms Taxonomy :-** Remember

(1.1) Explain the classification of Instruments based on function and working ? [6.0]

**CO :-** C304.1  
**Blooms Taxonomy :-** Remember

(1.2) Discuss static and dynamic characteristics of an instrument. [7.0]

**CO :-** C304.2  
**Blooms Taxonomy :-** Remember

(1.3) Explain the principle and working of bourdon pressure Gauges. [7.0]

**CO :-** C304.3  
**Blooms Taxonomy :-** Remember

(Q2) All questios are compulsory. [10.0]

**CO :-** C304.4  
**Blooms Taxonomy :-** Remember

(2.1) Explain with neat diagram Diaphragm pressure gauges and Bellows pressure gauges. [4.0]

**CO :-** C304.4  
**Blooms Taxonomy :-** Remember

(2.2) What are the types of Pyrometer ? Explain anyone in details. [6.0]

**CO :- C304.4**  
**Blooms Taxonomy :- Remember**

**(Q3) All questions are compulsory.** [10.0]

**CO :- C304.4**  
**Blooms Taxonomy :- Remember**

(3.1) Classify the methods for liquid level measurement. Discuss hook type level indicator. [3.0]

**CO :- C304.4**  
**Blooms Taxonomy :- Remember**

(3.2) What are the different types of flow measuring methods ? Explain any one with neat sketch. [7.0]

**CO :- C304.4**  
**Blooms Taxonomy :- Remember**

**(Q4) Attempt any two out of three questions** [10.0]

**CO :- C304.5**  
**Blooms Taxonomy :- Remember**

(4.1) With schematic diagram explain working of a flame photometer. [5.0]

**CO :- C304.5**  
**Blooms Taxonomy :- Remember**

(4.2) What is principle of Gas chromatographic separation? Explain its basic parts and working. [5.0]

**CO :- C304.5**  
**Blooms Taxonomy :- Remember**

(4.3) What are the basic laws of spectrophotometer? Explain working of Doublebeam colorimeter. [5.0]

**CO :- C304.5**  
**Blooms Taxonomy :- Remember**

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