VITHALBHAI PATEL & RAJRATNA P.T. PATEL SCIENCE COLLEGE
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S.Y. B.Sc. SEM: VI **INTERNAL TEST** **DATE: 11th March 2019**
SUB: Industrial chemistry **TIME: 10:00 am to 12:00 pm**
SUB CODE: US06CICH05 **TOTAL MARKS: 50**

Q1.MCQ [08]

1.The temperature range covered by the industrial bimetallic thermometer is _____ F^0
(a) -50 to 100 (b) -40 to 800 (c) -100 to 1000 (d) None of these

2. In liquid expansion thermometer used as
(a) mercury (b) Toluene (c) Alcohol (d) all of these

3. 1newton per square meter _____
(a) one Psi (b) 1 Pa (c) a & b both (d) 1N/m2

4.The pressure range of bronze spring is _____
(a) 600 psi (b) 1000 psi (c) 10000 psi (d) 800 psi

5.The orifice plate made by _____
(a) stain less steal (b) aluminum (c) copper (d) Silver

6.Pitot tube fluid velocity is _____
(a) $\sqrt{2gh}$ (b) 3fg (c) h0 + h (d) C $\sqrt{2gh}$

7. The panels of mounting instrument are usually made of _____
(a) coper (b) mild steal (c) plastic (d) iron

8. A controlled valve is essentially a variable orifice and hence its flow equation is _____
(a) $CV\sqrt{\Delta P}$ (b) ΔC (c) PV (d) All of these

Q.2 Answer the following in short.(Attempt five, each two marks) [10]

(1) Explain working of optical pyrometer.
(2) Discuss mercury in glass thermometer.
(3) List the different units of pressure
(4) Write the classification of pressure measuring devise.
(5) Write principle of rotameter
(6) Write about classification of orifice plate
(7) Differentiate analog and digital indicator
(8) Write the objective of data recorder

Q.3 Write a note on expansion thermometer or bimetallic thermometer. [08]

OR

Q.3 Write note on thermal well. [08]

Q.4 Discuss bourdon tube pressure gauge [08]

OR

Q.4 Write a note on sight glass method [08]

Q.5 Explain working of rotameter [08]

OR

Q.5 Derive an equation of d. Orifice meter [08]

Q.6 Write the different between circular and strip chart recorder [08]

OR

Q6 Explain fixed pointer movable scale & fixed scale moveable pointer. [08]

- : All the best: -