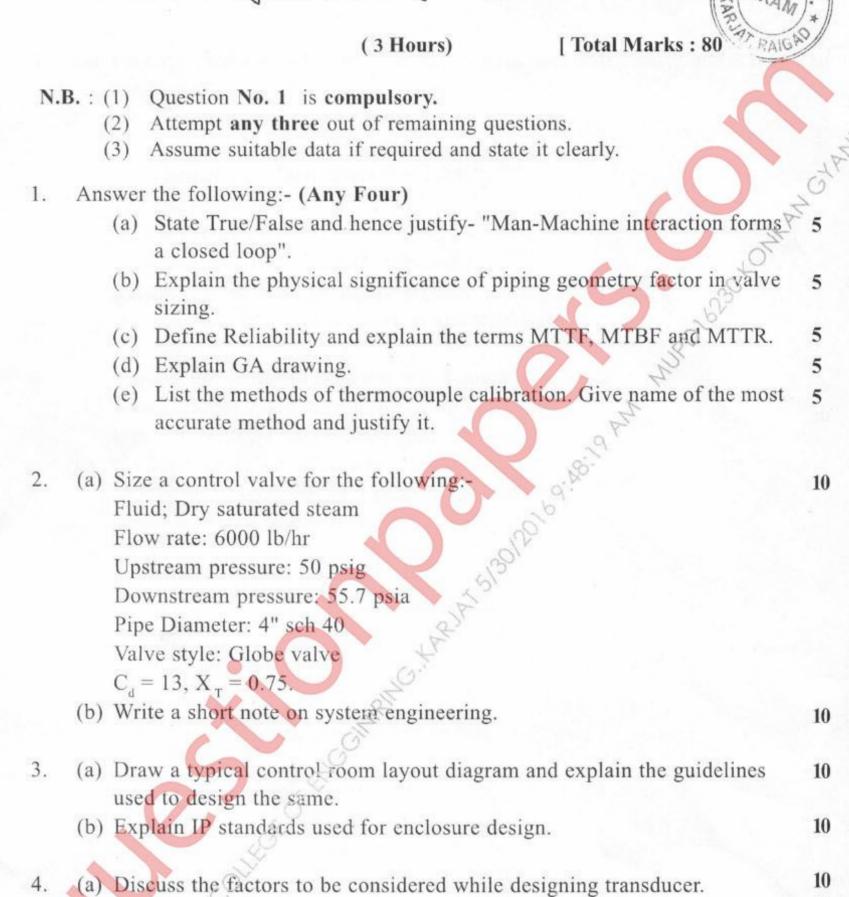
Sem. VIII/INST (CBGS) I.S. D. / 30.05.16

Instrument & system Design Q.P. Code: 733401



(b) Draw and explain Bath tub curve with its significance.

TURN OVER

10

Q.P. Code: 733401

10

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2

5. (a) Find the predicted SPL at 1.2 meter downstream of the valve and 3 feet horizontally from the pipe surface it Upstream pressure = 125 psia
Downstream, pressure = 65 psia
Pipe diameter = 2"sch 40 (O.D = 2.735")
Thickness = 0.154"

Thickness = 0.154" $X_T = 0.7$, $C_V = 35$.

Insulation one inch thermal (4dB/inch)

Location: open area 30" above ground.

(b) Write a short note on - Grounding and shielding.

(a) Explain illeffects of cavitation with remedies to refuce it.
(b) Size a control valve for the following:Fluid: water, flow rate = 1600 gpm
Upstream pressure: 27.9 psig
Downstream pressure: 34.7 psia

Valve style: 60° Butterfly Valve, Cd =17

Course: B.E. (Sem - VIII) (CBSGS) (All Branches)

* EXAM *

QP Code 733401

Correction

Q 6 (a) read as "......reduce it" instead of "......refuce it"

Q 6 (b) add Pipe diameter = 8" sch 40

Date and Time 30/05/2016 11:25 AM

1. V. Janhare 30/05/116

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