Examination Nov/Dec 2019

Total No. of Printed Pages:2

H-225

SUBJECT CODE NO:- H-225 FACULTY OF SCIENCE AND TECHNOLOGY

B.E. (Mechanical) (Sem-II)
Elective-II: Piping System Engineering
[Revised]

[Time:	Three Hours]	[Max. Marks:80]
	Please check whether you have got the right question part N.B.:(i) Solve any three questions from each Section. (ii) Use of data book/property tables is permitted. (iii) Marks are reserved for figures, charts, graphs wherever necessary (iv) Assume suitable data if required.	
	Section A	
Q.1	A. Describe ASME 31.4 and ASME 31.5 codes in piping.B. Explain the scope of piping engineering.	06 07
Q.2	A. Sketch commonly used pipe fittings, flanges & fasteners.B. Discuss what is Pressure Temperature (P-T) rating.	06 07
Q.3	A. Explain economic velocity.B. How will you determine the pressure drop for compressible and nor fluids?	06 n-compressible 07
Q.4	A. Explain different types of elbows, Tee(T).B. Describe methods of pipe network analysis.	06 07
Q.5	Write Short notes on (Any Two) 1. Safety valves 2. Fasteners 3. Threaded joints	14
S	Section B	
Q.6	A. Enlist ASME/ANSI/API standards for piping materials.B. Explain selection, properties and use of piping materials for cryogen	nic systems. 06
Q.7	A. Sketch a sample P&ID diagram of fluid storage and distribution for application.	simple 06
Q.8	B. Explain piping isometrics with neat sketch.A. Explain costing for piping networks.B. Discuss how CADD (Computer Aided Design and Drafting) is used preparation.	06

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Q.9	A. Explain the effects of water hammer on a pipe	· · · · · · · · · · · · · · · · · · ·	H-225 06 07
	B. Describe the different support in piping netwo	orks.	
Q.10	Write Short notes on (Any Two)		14
	1. Corrosion resistant materials		
	2. Critical thickness of insulation		7 4 4 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6
	3. Pipe stresses		