

**University of Mumbai**  
**Examination 2020 under cluster 4 (PCE)**

Program: BE Mechanical Engineering

Curriculum Scheme: R2012

Examination: Final Year Semester VII

Course Code: MEE7017 and Course Name: Piping Engineering

Time: 1 hour

Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	Based on design philosophy the process plants are classified as
Option A:	Big, Small, Medium
Option B:	Government and Private
Option C:	Manual, Automatic, Semiautomatic
Option D:	National and Multinational
Q2.	P&ID is
Option A:	Piping and Instrumentation Diagram
Option B:	Process and industrial drawing
Option C:	Pipe and industrial drawing
Option D:	Principle and intermediate drawing
Q3.	Globe valve is used where
Option A:	Flow control is required
Option B:	Isolation is required
Option C:	Direction change is required
Option D:	Unidirectional flow is required
Q4.	In socket welded flange ID of the flange is equal to
Option A:	OD of the pipe
Option B:	ID of the pipe
Option C:	Length of the pipe
Option D:	Thickness of the pipe
Q5.	In stub in connection hole drilled in the header break is equal to
Option A:	OD of branch pipe
Option B:	ID of branch pipe
Option C:	Length of pipe
Option D:	Thickness of pipe
Q6.	For Joining 12" header and 1" branch fitting used
Option A:	Half Coupling
Option B:	Full Coupling
Option C:	Weldolet
Option D:	Stub in
Q7.	PMS refers to
Option A:	Piping Material Specification

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Option B:	Piping Member sections
Option C:	Process Marking Specifications
Option D:	Process Monitoring specification
Q8.	Dimensional standard for SS pipe is
Option A:	ASME B 36.10
Option B:	ASME B 40.10
Option C:	ASME B 20.10
Option D:	ASME B 36.19
Q9.	Dimensional standard for CS pipe is
Option A:	ASME B 36.10
Option B:	ASME B 40.10
Option C:	ASME B 20.10
Option D:	ASME B 36.19
Q10.	For material selection in piping the standard used is
Option A:	OISD
Option B:	ASTM
Option C:	ASME
Option D:	ISO
Q11.	Dimensional standard for Swaged Nipple is
Option A:	MSS SP 29
Option B:	MSS SP 95
Option C:	MSS SP 97
Option D:	MSS SP 12
Q12.	Dimensional standard for O'let fittings is
Option A:	ASME B 40.10
Option B:	ASME B 20.10
Option C:	MSS SP 95
Option D:	MSS SP 97
Q13.	Cooling tower uses
Option A:	Water to cool air
Option B:	Water to cool stream
Option C:	Air to cool water
Option D:	Air to cool steam
Q14.	For steam is generation _____ is used
Option A:	Heat Exchanger
Option B:	Boiler
Option C:	Cooling tower
Option D:	Pressure Vessel
Q15.	Ball valve is used for
Option A:	Quick on off

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Option B:	Regulation
Option C:	Direction control
Option D:	Flow control
Q16.	Orifice is a type of
Option A:	Equipment
Option B:	Flowmeter
Option C:	Fitting
Option D:	Equipment
Q17.	Drip leg used in piping for
Option A:	To remove steam
Option B:	To remove air
Option C:	To remove Condensate
Option D:	To remove oil
Q18.	Inlet of cooling tower is
Option A:	LPS
Option B:	HPS
Option C:	CWS
Option D:	CWR
Q19.	Lap Joints are used because
Option A:	Economical
Option B:	Easy to manufacture
Option C:	Looks good
Option D:	Easily available
Q20.	Full Face gasket is use with
Option A:	RTJ Flange
Option B:	RF Flange
Option C:	FF Flange
Option D:	T&G flange
Q21.	General condition in terms of temperature in piping refers to
Option A:	600° C
Option B:	400° C
Option C:	50° C
Option D:	200°C
Q22.	In stress critical lines anchor supports are used to
Option A:	Protect pipe before anchor from expansion
Option B:	Protect pipe after anchor from expansion
Option C:	Protect entire line from expansion
Option D:	Protect supports from expansion
Q23.	Nozzle loading is calculated to
Option A:	To minimize the forces on nozzle

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Option B:	Prevent pipe connected to nozzle from failure
Option C:	To calculate nozzle orientation
Option D:	To calculate nozzle height
Q24.	What is the size up to which small bore pipe size range used in industry
Option A:	Above ½"
Option B:	upto 1½"
Option C:	upto 4"
Option D:	Upto 5"
Q25.	Smallest size of the Reducer is available in the market
Option A:	Half Diameter of large end and one size smaller
Option B:	Half of large end
Option C:	Half Diameter of large end and three size smaller
Option D:	Half Diameter of large end and two size smaller

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Time: 1 hour

Max. Marks: 50

<b>Question</b>	<b>Correct Option (Enter either 'A' or 'B' or 'C' or 'D')</b>
Q1.	C
Q2.	A
Q3.	A
Q4	B
Q5	B
Q6	A
Q7	A
Q8.	D
Q9.	A
Q10.	B
Q11.	B
Q12.	D
Q13.	C
Q14.	B
Q15.	A
Q16.	B
Q17.	C
Q18.	D
Q19.	A
Q20.	C
Q21.	D
Q22.	B
Q23.	A
Q24.	B
Q25.	A