

Department of Civil Engineering

Unit III - MCQ Bank

1.	Column is a tension member.
	a) True
	b) False
	Answer: b
2.	is a vertical member subjected to direct compressive force.
	a) Strut
	b) Beam
	c) Column
	d) Post
	Answer: c
3.	The inclined member carrying compressive loads is
	a) Post
	b) Stanchion
	c) Strut
	d) Column
	Answer: c
4.	A built up rolled steel section carrying compressive force is called
	a) Post
	b) Pillar
	c) Strut
	d) Stanchion
5.	of column mainly depends upon end conditions.
	a) Radius of gyration

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	b) Slenderness ratio
	c) Factored load
	d) Effective length
	Answer: d
6.	The hinged end is also known as
	a) Fixed end
	b) Pinned end
	c) Rigid end
	d) Free end
	Answer: b
7.	ong columns fail due to
	a) Direct stress
	b) Buckling stress
	c) Lateral stress
	d) Tensile stress
	Answer: b
8.	In short columns, the slenderness ratio is less than
	a) 32
	b) 64
	c) 56
	d) 28
	Answer: a
9.	For columns, the slenderness ratio is more than 32 and less than 120.
	a) Long
	b) Short
	c) Average

d) Medium

	Answer: d
10.	Radius of gyration is denoted by
	a) k
	b) g
	c) y
	d) s
	Answer: a
11.	The is the distance between Centres to centre of effective lateral en
	a) Mean length
	b) Stripped length
	c) True length
	d) Actual length
	Answer: d
12.	The slenderness ratio is the ratio of effective length to least
	a) Ultimate load
	b) Actual length
	c) Radius of gyration
	d) Factor of safety
	Answer: c
13.	Which of the following is also known as the working load?
	a) Safe load
	b) Crippling load
	c) Ultimate load
	d) Buckling load

Answer: a

14.	Factor of safety is a ratio of crippling load to load.
	a) Critical load
	b) Buckling load
	c) Safe load
	d) Ultimate load
	Answer: c
15.	Atload, the column is said to have developed an elastic instability.
	a) Safe
	b) Working
	c) Factored
	d) Crippling
	Answer: d
16.	he value of is relatively high for short columns.
	a) Safe load
	b) Factored load
	c) Working load
	d) Buckling load
	Answer: d
17.	If the thickness of plate is negligible when compared to the diameter of the cylindrical, then it is
	called
	a) Thick cylinder
	b) Thin cylinder
	c) Hoop cylinder
	d) Circumferential cylinder
	Answer: b
18.	In thin cylinders, the thickness should be times of internal diameter.
	a) 1/20

	b) 1/15
	c) 1/30
	d) 1/40
	Answer: a
19.	Oil tanks, steam boilers, gas pipes are examples of
	a) Thick shells
	b) Thin cylinders
	c) Hoop cylinders
	d) Longitudinal cylinders
	Answer: b
20.	in shells, the stress distribution is not uniform over the thickness of the material.
	a) Thick
	b) Thin
	c) Hoop
	d) Circumferential
	Answer: a
21.	Hydraulic radius is denoted by
	a) T
	b) A
	c) R
	d) N
	Answer: b
22.	The stress acts tangential to circumference is called stress.
	a) Hoop
	b) Fluid
	c) Longitudinal

d) Yield

23.	The hoop stress is along the x axis.
	a) Tensile
	b) Parabolic
	c) Compressed
	d) Transverse
	Answer: a
24.	The cylinder has a tendency to split up along due to circumferential stress.
	a) Area
	b) Radius
	c) Diameter
	d) Length
	Answer: c
25.	is half the circumferential stress.
	a) Hoop stress
	b) Longitudinal stress
	c) Fluid stress
	d) Transverse stress
	Answer: b