Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020

Course Name -Strength of Materials Course Code - DME203/DCE203

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9.

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Aı	nswer all the questions. Each question carry one mark.
9.	1.The deformation per unit length is called
	Mark only one oval.
	tensile stress
	compressive stress
	shear stress
	none of these
10.	2. A rigid body has Poisson's ratio equal to
	Mark only one oval.
	0
	1
	Less than 1
	greater than1

11.	3. The ratio of stress and strain is known as
	Mark only one oval.
	Modulus of elasticity Young's modulus Both Modulus of elasticity and Young's modulus None of these
12.	4.The relation between modulus of elasticity (E), modulus of rigidity (G) and bulk modulus (K) is given as Mark only one oval. K+G / (3K+G) 3 KG / (3K+G) 9 KG / (3K+G)
13.	5.When a rectangular bar is uniaxially loaded, the volumetric strain (ev) is given as Mark only one oval.

14.	6. The ability of the material to deform without breaking is called
	Mark only one oval.
	Elasticity Plasticity Creep
	None of theses
15.	7.Which of the following material is more elastic?
	Mark only one oval.
	Rubber
	Glass
	Steel
	Wood
16.	8. A brittle material has
	Mark only one oval.
	No elastic zone
	No plastic zone
	Large plastic zone
	None of these

17.	9. The ratio of lateral strain to linear strain is called
	Mark only one oval.
	Modulus of Elasticity
	Modulus of Rigidity
	Bulk Modulus
	Poisson's Ratio
18.	10. The value of Poison's ratio depends upon
	Mark only one oval.
	Nature of load, tensile or compressive
	Magnitude of load
	Material of the test specimen
	Dimensions of the test specimen
19.	11.Which of the following is a dimensionless quantity?
10.	
	Mark only one oval.
	Shear stress
	Poison's ratio
	Hoop stress
	None of these

20.	12. The thermal stress induced in a steel rod is compressive, if temperature
	Mark only one oval.
	decreases
	increases
	remains constant
	None of these
21.	13. The value of elasticity increases, when temperature
	Mark only one oval.
	increases
	decreases
	remains constant
	None of these
22.	14. What is the value of thermal stress, if a rod of 3 m is heated at 50 oC and is fixed at both the ends? (Take $\alpha = 10 \times 10-6 / oC \& E = 200 \times 103 Mpa$)
	Mark only one oval.
	25 Mpa
	50 Mpa
	100 Mpa
	150 Mpa

23.	15. In thin cylinders, the thickness should be time diameter(Probable duplicate)	es of internal
	Mark only one oval.	
	1/20	
	1/15	
	1/30	
	1/40	
24.	16. The units of discharge are	
	Mark only one oval.	
	m/s	
	m2/s	
	m3/s	
	\bigcirc m	
25.	17. What is the bending moment at end supports of a simply s (Probable duplicate)	supported beam?
	Mark only one oval.	
	Maximum	
	Minimum	
	Zero	
	Uniform	

26.	18. Sagging, the bending moment occurs at the of the beam
	Mark only one oval.
	At supports
	Mid span
	Point of contraflexure
	Point of emergence
27.	19. At the point of contraflexure, the value of bending moment is
	Mark only one oval.
	Zero
	Maximum
	Can't be determined
	Minimum
28.	20. SI units of Bending moment is
	Mark only one oval.
	kN
	kN2
	kNm
	km

29.	21. The beam having one end free and one end fixed is called as
	Mark only one oval.
	Cantilever beam
	Continuous beam
	Overhang beam
	Simply supported beam
30.	22. Moment of inertia is the
	Mark only one oval.
	Second moment of area
	Second moment of mass
	Second moment of force
	All of these
31.	23. Moment of Inertia of a solid sphere of mass m and radius r is
	Mark only one oval.
	2mr²/3
	2mr²/5
	─ mr²
	mr²/2

32.	24. The parallel axis theorem uses the of the distance
	Mark only one oval.
	Square root
	Square
	Cube root
	Cube
33.	25. The distance in the parallel axis theorem is multiplied by
	Mark only one oval.
	Area
	Volume
	Linear distance
	Area/Volume
34.	26. Moment of inertia of a circular section about an axis perpendicular to the section is
	Mark only one oval.
	π d3/16.
	\bigcirc πd3/32
	\bigcirc π d4/32
	\int $\pi d4/64$.

35.	27. The moment of inertia of a square of side a about its base is
	Mark only one oval.
	a4/3 a3/12
	a3/12
	a2/16
	<u>uz</u> , 10
36.	28. The unit of moment of inertia is
	Mark only one oval.
	L L2
	L4
37.	29. The moment of inertia of a rectangle base 'b' and depth 'd' about the base will be
	Mark only one oval.
	bd2/6
	bd3/12
	db3/12
	bd3/3

38. 30. Which of the following is a differential equation for deflection?

Mark only one oval.

- dy / dx = (M / EI)
- \bigcirc dy / dx = (MI / E)
- d2y / dx2 = (M / EI)
- $\bigcirc d2y / dx2 = (ME / I)$

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