Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - Theory of Structures Course Code -DCE405

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8.

Mark only one oval.		
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LLB		
B.SC(IT)-AI		
B.SC.(MSJ)		
Bachelor of Physiotherapy		
B.SC.(AM)		
Dip.CSE		
Dip.ECE		
<u>DIP.EE</u>		
DIPCE		

9.

DIP.ME
PGDHM
MBA
M.SC.(BT)
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LLM
M.A.(JMC)
M.A.(ENG)
M.SC.(MATH)
M.SC.(MB)
M.SC.(MSJ)
M.SC.(AM)
M.SC.CS)
M.SC.(ANCS)
M.SC.(MM)
B.A.(Eng)
Answer all the questions. Each question carry one mark.
. 1.What is the bending moment at end supports of a simply supported beam?
Mark only one oval.
Maximum
Minimum
Zero
Uniform

10.	throughout?
	Mark only one oval.
	w×I
	◯ w
	─ w/l
	─ w+l
11.	3.Sagging, the bending moment occurs at the of the beam.
	Mark only one oval.
	At supports
	Mid span
	Point of contraflexure
	Point of emergence
12.	4. How do point loads and udl be represented in SFD?
	Mark only one oval.
	Simple lines and curved lines
	Curved lines and inclined lines
	Simple lines and inclined lines
	Cant represent any more

13.	5 curve is formed due to bending of over hanging beams.
	Mark only one oval.
	Elastic
	Plastic
	Flexural
	Axial
14.	6.The relation between slope and maximum bending moment is
	Mark only one oval.
	Directly proportion
	Inversely proportion
	Relative proportion
	Mutual incidence
15.	7.Shear force is unbalanced to the left or right of the section.
	Mark only one oval.
	Horizontal force
	Vertical force
	Inclined force
	Conditional force

16.	8.SI units of shear force is
	Mark only one oval.
	◯ kN/m
	kN-m
	kN
	m/N
17.	9.Shear force diagram is representation of shear force plotted as ordinate.
	Mark only one oval.
	Scalar
	Aeria
	Graphical
	Statically
18.	10.Hogging is
	Mark only one oval.
	Negative bending moment
	Positive shear force
	Positive bending moment
	Negative shear force

19.	11 positive/negative bending moments occur where shear force changes its sign.
	Mark only one oval.
	Minimum
	Zero
	Maximum
	Remains same
20.	12.What is the other name for a positive bending moment?
	Mark only one oval.
	Hogging
	Sagging
	Inflation
	Contraflexure
21.	13.Which of these is the correct way of sign convention for shear force?
	Mark only one oval.
	RUP
	LUP
	RUN
	LDP

22.	14.At hinge, the moments will be
	Mark only one oval.
	Maximum Minimum Uniform Zero
23.	15.What is variation in SFD, if the simply supported beam is carrying U.D. Mark only one oval. Rectangle Linear Trapezoidal Parabolic
24.	16.The shear force in a beam subjected to pure positive bending is Mark only one oval. Positive Negative Zero Cannot determine

25.	17.A cantilever beam loaded with udl throughout, the maximum shear force occurs at
	Mark only one oval.
	Free end
	Fixed end
	At centre
	At point of contraflexure
26.	18.At the Point of contraflexure, what is the value of bending moment?
	Mark only one oval.
	one
	zero
	three
	infinity
27.	19.A cantilever beam subjected to point load at its free end, the maximum bending moment develops at the of the beam.
	Mark only one oval.
	Free end
	Fixed end
	Centre
	Point of inflection

28.	20.Positive bending moment is known as
	Mark only one oval.
	HoggingSagging
	Ragging
	Inflection
29.	21.Bending moment can be denoted by
	Mark only one oval.
	◯ K
	\bigcirc M
	\bigcirc N
	F
30.	22.Maximum bending moment in a cantilever beam subjected to udl (w)over the
30.	entire span (I).
	Mark only one oval.
	wl
	wl3
	wl2
	\bigcirc w

31.	23.There won't be any hinge in the conjugate beam.
	Mark only one oval.
	True
	false
	can not say
	none
32.	24.Units of deflection are
	Mark only one oval.
	kNm
	kN/m
	kN
	\bigcirc m
33.	25 In cantilover beams, the deflection is zero at
33.	25.In cantilever beams, the deflection is zero at
	Mark only one oval.
	Free and
	Fixed end
	At supports
	Through out

34.	26Slope in the beam at any point is measured in
	Mark only one oval.
	Degrees
	Minutes
	Radians
	Metric tonnes
35.	27.Which of the following method is not used for determining slope and deflection at a point?
	Mark only one oval.
	Moment area method
	Double integration method
	Isoheytal method
	Macaulay's method
36.	28.Slope is maximum at in simply supported beams
	Mark only one oval.
	Mid span
	Through out
	Supports
	At point of loading

37.	29.The maximum induced permissible stresses to ensure strengt		within the safe
	Mark only one oval.		
	Tensile		
	Compressive		
	Bending		
	Lateral		
38.	30.In simply supported beams, the slo	pe is	_ at supports.
	Mark only one oval.		
	Minimum		
	Zero		
	Maximum		
	Uniform		
39.	31.Stiffness of the beam is inversely pr	oportional to the _	of the beam.
	Mark only one oval.		
	Slope		
	Support reaction		
	Deflection		
	Load		

40.	32.In cantilever beam maximum deflection occurs at
	Mark only one oval.
	Free end
	Point of loading
	Through out
	none
41.	33.The number of independent equations to be satisfied for static equilibrium of a plane structure is
	Mark only one oval.
	1
	2
	3
	<u> </u>
42.	34.A pin-jointed plane frame is unstable if
	Mark only one oval.
	(m + r)
	m + r = 2j
	(m + r)>2j
	none of the above

43.	35.The number of independent equations to be satisfied for static equilibrium in a space structure is
	Mark only one oval.
	2
	3
	4
	<u> </u>
44.	36.The degree of kinematic indeterminacy of a pin-jointed space frame is
	Mark only one oval.
	2j-r
	3j-r
	j-2r
	j-3r
45.	37.Principle of superposition is applicable when
	Mark only one oval.
	deflections are linear functions of applied forces
	material obeys Hooke's law
	the action of applied forces will be affected by small deformations of the structure
	none of the above

46.	38.The carryover factor in a prismatic member whose far end is fixed is
	Mark only one oval.
	0
	1/2
	3/4
	1
47.	39.While using three moments equation, a fixed end of a continuous beam is replaced
	Mark only one oval.
	zero length
	infinite length
	zero moment of inertia
	none of the above
48.	40.Bending moment at any section in a conjugate beam gives in the actual beam
	Mark only one oval.
	slope
	curvature
	deflection
	bending moment

49.	41. Which of the following is not the displacement method?
	Mark only one oval.
	Equilibrium method
	Column analogy method
	Moment distribution method
	Kani's method
50.	42.Which of the following methods of structural analysis is a displacement method ?
	Mark only one oval.
	moment distribution method
	column analogy method
	three moment equation
	none of the above
51.	43.The fixed support in a real beam becomes in the conjugate beam a
	Mark only one oval.
	roller support
	hinged support
	fixed support
	free end

52.	44.P=42EI/L2 is the equation of Euler's crippling load if
	Mark only one oval.
	Both the ends are fixed Both the ends are hinged
	One end is fixed and other end is free
	One end is fixed and other end is hinged
53.	45.A close coil helical spring when subjected to a moment M having its axis along the axis of the helix
	Mark only one oval.
	It is subjected to pure bending Its mean diameter will decrease
	Its number of coils will increase
	All the above
54.	46.A cantilever of length is subjected to a bending moment at its free end. If El is the flexural rigidity of thesection, the deflection of the free end, is
	Mark only one oval.
	ML/EI
	ML/2EI
	ML2/2EI
	ML2/3EI

55 .	47. Gradually applied static loads do not change with time their
	Mark only one oval.
	Magnitude
	Direction
	All the above
	Point of application
56.	48.The assumption in the theory of bending of beams is:
	Mark only one oval.
	Material is homogeneous
	All the above
	Material is isotropic
	Young's modulus is same in tension as well as in compression
57.	49.The ratio of lateral strain to axial strain of a homogeneous material, is known
	Mark only one oval.
	Yield ratio
	Hooke's ratio
	Poisson's ratio
	Plastic ratio

58.	50.An isolated load W is acting at a distance a from the left hand support, of a three hinged arch of span 2I andrise h hinged at the crown, the horizontal reaction at the support, is
	Mark only one oval.
	Option 1
	◯ Wa/h
	2W/ha
	2h/Wa
59.	51.A material is said to be perfectly elastic if
	Mark only one oval.
	It regains its original shape on removal of the load
	It regains its original shape partially on removal of the load
	It does not regain its original shape at all
	None of these
60.	52.Pick up the correct statement from the following:
	Mark only one oval.
	For a uniformly distributed load, the shear force varies linearly
	For a uniformly distributed load, B.M. curve is a parabola
	For a load varying linearly, the shear force curve is a parabola
	All the above

61.	53.Beams composed of more than one material, rigidly connected together so as to behave as one piece, areknown as
	Mark only one oval.
	Composite beams
	Oeterminate beams
	Indeterminate beams
	Compound beams
62.	54.The point of contraflexure is the point where
	Mark only one oval.
	B.M. changes sign
	B.M. is maximum
	B.M. is minimum
	S.F. is zero
63.	55.The equivalent length of a column of length L having one end fixed and the other end free, is
	Mark only one oval.
	2L
	L/2
	Option 4

64.	56.A truss containing j joints and m members, will be a simple truss if
	Mark only one oval.
	m = 2j - 3
	j = 2m - 3
	m = 3j - 2
	j = 3m − 2
65.	57.Stress may be defined as
	Mark only one oval.
	Force per unit length
	Force per unit volume
	Force per unit area
	None of these
66.	58.The equivalent length of a column of length L, having both the ends hinged
	Mark only one oval.
	2L
	◯ L
	L/2
	Option 4

67.	59.The ratio of shear stress and shear strain of an elastic material, is
	Mark only one oval.
	Modulus of Rigidity
	Shear Modulus
	Modulus of Elasticity
	Both A. and B.
68.	60.Which of the following is correct boundary condition for a beam supported by pin at both ends?
	Mark only one oval.
	Displacement at both ends is non-zero
	Displacement at one of the end is non-zero
	Displacement at both ends is zero
	Can't say

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