

SIDDHARTH GROUP OF INSTITUTIONS :: PUTTUR

Siddharth Nagar, Narayanavanam Road – 517583

## **QUESTION BANK (DESCRIPTIVE)**

Subject with Code : SM-1(15A01303)

Course & Branch: B.Tech - CE

Year & Sem: II-B.Tech & I-Sem

Regulation: R13

## <u>UNIT – 2</u>

## SHEAR FORCE AND BENDING MOMENT

- 1. A cantilever of length 3 m carries a uniformly distributed load of 2.5 kN/m length over the whole length and a point of 3.5 KN at the free end. Draw SFD and BMD for the cantilever.
- A simply supported beam of length 8 m, carries point load of 4 KN and 7 KN at distances 3 m and 6 m from the left end. Draw SFD and BMD for the beam.
- All cantilever of length 3 m carries a uniformly distributed load of 1.5 kN/m run over a length of 2 m from the free end. Draw SFD and BMD.
- 4. Simply supported beam of length 6 m carries a uniformly increasing load of 600 N/m at one end to 1500 N/m run at the other end. Draw SFD and BMD for the beam. And also calculate the position and magnitude of maximum bending moment.
- 5. Draw the SFD and BMD for the beam loaded as shown in the figure.



6. Draw the shear force and bending moment diagrams for the beam shown in the figure.



- 7. (a) Define beam. Sketch three different types of beams indicating name of beam.
  - (b) Draw the shearing force and bending moment diagrams for the beam shown in figure.

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- 8. (a) Define the 'Beam' and the type of action and deformation it undergoes.(b) Draw the S.F and B.M diagram for a S.S.B of span loaded with UDL of W KN/m.
- 9. Draw the shear force and bending moment diagrams showing the salient values for the Loaded beam shown in the figure.



10. Define the following terms

- a) Concept of Shear force
- b) Concept of Bending moment
- c) Types of beams
- d) Types of loads
- e) Definition of beam & point of contra flexure.

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<u>QUESTIC</u>	<u>DN BANK (OBJECTIVE)</u>		
Subject with Code : SM-1(13A01301)	Course & Bra	nch: B.7	Tech - CE
Year & Sem: II-B.Tech & I-Sem	Xear & Sem: II-B.Tech & I-SemRegulation: R13		
	$\frac{\text{UNII} - 2}{DE A DENDRYC MONTENTE$		
SHEAR FOR	<u>CE &amp; BENDING MOMENT</u>		
1) A beam is a structural member which	ch is subjected to	[	]
a) Axial tension or compression	b) Transverse loads and couples		
c) Twisting moment	d) No load		
2) Which of the following are staticall	y determinate beams?	[	]
a) Only simply supported beams	b) Cantilever, overhanging and simply	supporte	ed
b) Fixed beams	d) Continuous beams		
3) A cantilever is a beam whose		[	]
a) Both ends are supported either on ro	ollers or hinges b) One end is fixed and ot	her end	is free
c) Both ends are fixed	d) Whose both or one of the end	l has ove	erhang
4) In a cantilever carrying a uniformly	varying load starting from zero at the free	end,	-
The shear force diagram is		[	]
<ul><li>a) A horizontal line parallel to x-axis</li><li>c) Follows a parabolic law</li></ul>	<ul><li>b) A line inclined to x-axis</li><li>d) Follows a cubic law</li></ul>	-	-
5) In a cantilever carrying a uniformly moment diagram is	varying load starting from zero at the free	end, the [	Bending ]
<ul><li>a) A horizontal line parallel to x-axis</li><li>b) Follows a parabolic law</li></ul>	<ul><li>b) A line inclined to x-axis</li><li>d) Follows a cubic law</li></ul>		
6) In a simply supported beam, bending	g moment at the end	[	]
a) Is always zero if it does not carry co	uple at the end		
b) Is zero, if the beam has uniformly di	stributed load only		
c) Is zero if the beam has concentrated	loads only		
d) May or may not be zero			

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7) For any part of the beam between ty	wo concentrated load Shear force diagram is a[]
<ul><li>a) Horizontal straight line</li></ul>	b) Vertical straight lin
c) Line inclined to x-axis	d) Parabola
<ul><li>8) For any part of a beam between two</li></ul>	concentrated load Bending moment diagram is a[
a) Horizontal straight line	h) Vertical straight line
c) Line inclined to x-axis	d) Parabola
<ul><li>a) For any part of a hear subjected to u</li></ul>	niformly distributed load. Shear force diagram is[]
a) Horizontal straight line	b) Verticel streight line
a) Horizontal straight line	d) Derech als
c) Line inclined to x-axis	
10) For any part of a beam subjected to	uniformly distributed load, bending moment diagram is
a) Horizontal straight line	b) Vertical straight line
c) Line inclined to x-axis	d)Parabola
11) A sudden jump anywhere on the Ber	nding moment diagram of a beam is caused by [ ]
a) Couple acting at that point	b) Couple acting at some other point
c) Concentrated load at the point	d) u.d.l or u.v.l on the beam
12) In a simple supported beam having point.	length = 1 and subjected to a concentrated load (W) at mid-
a) Maximum Bending moment = $Wl/4$ a	at the mid-point
b) Maximum Bending moment = $Wl/4$	at the end
c) Maximum Bending moment = Wl/8 a	at the mid-point
d) Maximum Bending moment = Wl/8	at the end
13) In a simply supported hear subject	ed to uniformly distributed load (w) over the entire length
(l), total load=W, maximum Bending m	oment is []
a) Wl/8 or $wl^2/8$ at the mid-point	
b) Wl/8 or $wl^2/8$ at the end	
c) Wl/4 or $wl^{2}/4$	
d) Wl/2	

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14) In a cantilever subjected to a concentrated load Maximum bending moment is	(W) at the free end and having length =l, [ ]	
a) Wl at the free end b) Wl at the	ne fixed end	
c) Wl/2 at the fixed end d) Wl at the	ne free end	
15) An axle is subjected to loads as shown	[ ]	
↓ ↑ ►	↓ ↑ >	
Maximum bending moment is		
a) Wl b) W(l-a) c ) Wa d	) W(l+a)	
16) At a point in a simply supported or overhanging Bending moment is	g beam where Shear force changes sign and = 0 [ ]	),
a) Maximum b) Zero c) Either increasing	or decreasing d) Infinity	
17) In a cantilever subjected to a combination of co uniformly varying load, Maximum bending momen	ncentrated load, uniformly distributed load and t is []	1
a) Where shear force=0 b) At the free end 0	C) At the fixed end d) At the mid-point	
18) Point of contra-flexure is a	[ ]	
a) Point where Shear force is maximum b)	Point where Bending moment is maximum	
c) Point where Bending moment is zero		
d) Point where Bending moment=0 but also change	s sign from positive to negative	
19) Point of contra-flexure is also called	[ ]	
a) Point of maximum Shear force b) Point of	f maximum Bending moment	
c) Point of inflexion d) Fixed e	nd	
20) The slope of shear force line at any section of t	he beam is also called [ ]	
a) Bending moment at that section b)	Rate of loading at that section	
c) Maximum Shear force d)	Maximum bending moment	
21) 1. In a simply supported beam carrying a unifor point of contra flexure will occur in	mly distributed load over the left half span, the	)
(a) Left half span of the beam (b) Right half spa	n of the beam.	
(c) Quarter points of the beam (d) Does not exist		

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29) In Fig. (b), the reaction at support A will be $[$ ] (a) 6 kN (b) 2 kN (c) 4 kN (d) None of these 30) In Fig. (b), the maximum B.M. will be at [] (a) Support A (b) Support B (c) Centre of beam (d) Under the load 31) In Fig. (b), the maximum B.M. will be [] (a) 6 kN-m (b) 4 kN-m (c) 2 kN-m (d) 8 kN-m 32) In Fig. (c), the slope of B.M.D. will be more for [] (a) Portion AC (b) Portion BC (c) Will be equal (d) None of these fig. (c), the slope of B.M.D. will be more for []] (a) Control C (b) Portion BC (c) Will be equal (d) None of these $fig. (c), the slope of B.M.D. will be more for []] (a) Control C (b) Portion BC (c) Will be equal (d) None of these fig. (c), the slope of B.M.D. will be more for []] (a) Control C (b) Portion BC (c) Will be equal (d) None of these fig. (c), the slope of B.M.D. will be more for []](a) Cantilever beam (b) Simply supported beam (c) Overhanging beam (d) Insufficient data34) Corresponding to Fig. (c), the loading on the portion AD of the beam will be []](a) Uniformly distributed load (b) Uniformly varying load(c) Point loads (d) C (d) D35) Corresponding to Fig. (c), the maximum bending moment will be at []](a) A (b) B (c) C (d) D36) The beam having one end free and one end fixed is called as []]a. Cantilever beam b. Continuous beam c. Overhang beam d. Simply supported beam37) In axial thrust diagram, at which point bending moment is zero? []]a. Point of contra-flexure b. Point of inflection c. Both a. and b. d. None of the above38) Uniformly varying load between two sections in shear force diagram is represented by []]a cubic curve b. inclined line c. horizontal line d. parabolic curve39) In bending moment diagram, if no load acts between two sections, then it is represented bya horizontal line b. inclined line c. vertical line d. all of the above []]$	QUESTION BA	.NK 20	)16
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Name of the Subject

	QUESTION BAN	JK 2	016
40) The graphical representation of x axis is called as	variation of axial load on y axis and position of cross	s sectio	on along ]
a. Bending moment diagram	b. Shear force diagram		
c. Stress-strain diagram	d. Trust diagram		