Unit 4 MCQ QB

Analysis of Structures

) Different Planes

All of the above

*	Required
1.	Email *
2.	What is your Name? *
3.	What is your roll number? *
4.	All members of plane truss lie in * Mark only one oval.
	One Plane Two Planes

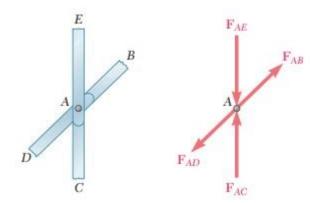
5.	The members of truss are connected by frictionless	1 point
	Mark only one oval.	
	a. Pin joint	
	b. Hinge Joints	
	C. Roller Joints	
	d. Both a and b	
6.	The members of truss are essentially	1 point
	Mark only one oval.	
	Two force members	
	One force members	
	Three force members	
	Multi force members	
7.	All the loads acting on the truss are applied at the	1 point
	Mark only one oval.	
	middle of the member	
	joints only	
	anywhere on the member	
	none of these	

8.	Member of the truss will be havingforce only.	1 point
	Mark only one oval.	
	a. Axial tension	
	b. Axial compression	
	c Radial forces	
	d. Both a and b	
9.	If $n \neq 2j$ -R, then the truss is known as (where $n = No.$ of members, $j = no.$ of. joints, R = no. of reactions)	1 point
	Mark only one oval.	
	statically determinate truss	
	statically indeterminate truss	
	simple truss	
	triangular truss	
10.	If n < 2j-R, then the truss is known as (where n = No. of members, j = no. of. joints, R = no. of reactions)	1 point
	Mark only one oval.	
	perfect truss	
	redundant truss	
	over rigid truss	
	deficient truss	

11.	If n > 2j-R, then the truss is known as (where n = No. of members, j = no. of. joints, R = no. of reactions)	1 point
	Mark only one oval.	
	perfect truss	
	redundant truss	
	over rigid truss	
	deficient truss	
12.	If $n=2j-R$, then the truss is known as (where $n=No.$ of members, $j=no.$ of. joints, $R=no.$ of reactions)	1 point
	Mark only one oval.	
	perfect truss	
	redundant truss	
	over rigid truss	
	deficient truss	
13.	In the analysis of Truss, Self weight of the members is	1 point
	Mark only one oval.	
	Considered	
	Neglected	

14.	In section method, the section line can intersect maximummembers 1 point only.
	Mark only one oval.
	two
	three
	four
	one
15.	In Joint method, the joint from which we start the analysis should have 1 point maximumunknown forces.
	Mark only one oval.
	<u>two</u>
	three
	four
	one

16. When four members are connected at single joint in the truss in such a way that opposite members lie in straight line and there is no external load acting at that joint as shown in the figure, then FORCES IN THE OPPOSITE MEMBERS ARE



Mark only one oval.

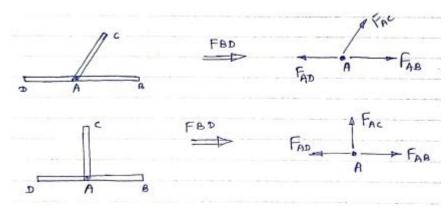
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Unequal

Zero

one

17. When three members are connected at single joint in the truss in such a way 1 point that two members are colinear (lie in straight line), one member is inclined or Perpendicular to the first two (which are colinear) and there is no external load acting at that joint as shown in the figure, then FORCES IN THE OPPOSITE MEMBERS ARE



Mark only one oval.

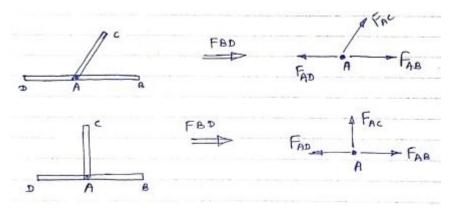
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Unequal

Zero

one (

18. When three members are connected at single joint in the truss in such a way 1 point that two members are colinear (lie in straight line), one member is inclined or Perpendicular to the first two (which are colinear) and there is no external load acting at that joint as shown in the figure, then FORCE IN THE INCLINED MEMBER is



Mark only one oval.

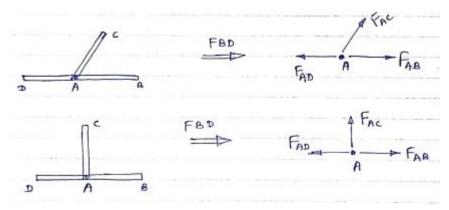
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Unequal

Zero

one one

19. When three members are connected at single joint in the truss in such a way 1 point that two members are colinear (lie in straight line), one member is inclined or Perpendicular to the first two (which are colinear) and there is no external load acting at that joint as shown in the figure, then FORCE IN THE PEPENDICULAR MEMBER is



Mark only one oval.

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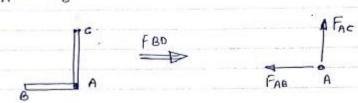
Unequal

Zero

one (

that one member is horizontal and other member is vertical (i.e. members are perpendicular to each other) and there is no external load acting at that joint as shown in the figure, then FORCES IN BOTH THE MEMBERS are

A FAC

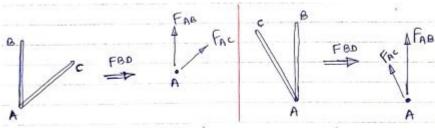


Mark only one oval.

- ____ Equal
- Unequal
- Zero
- one

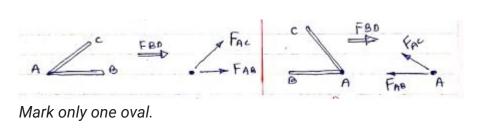
21. When two members are connected at single joint in the truss in such a way that one member is vertical and other member is inclined and there is no external load acting at that joint as shown in the figure, then FORCES IN BOTH THE MEMBERS are

1 point



Mark only one oval.

- ____ Equal
- Unequal
- Zero
- one



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Unequal

Zero

one one

23. Which of the following is correct?

1 point

Mark only one oval.

- a) To know the direction of the unknown force we take the assumption of it
 - b) The direction of the unknown force is known to us already
- c) The direction of the unknown can't be determined
- d) The direction of the unknown is of no use, it is not founded
- 24. If the whole truss is in equilibrium then all the joints which are connected to 1 point that truss is in equilibrium. This is known as:

Mark only one oval.

- a) Method of joints
- b) Section method
- c) Scalar field method
- d) Vector equilibrium method

25.	The free body diagram of which part of the section of the truss is made to make use of method of joints?	1 point
	Mark only one oval.	
	a) <mark>Joints</mark>	
	b) Truss	
	c) The whole structure	
	d) The combination of joint and the whole structure	
26.	For applying the method of joint at joints the forces need to coplanar.	1 point
	Mark only one oval.	
	True	
	False	
27.	For applying the method of joint at joints the forces need to be concurrent.	1 point
	Mark only one oval.	
	True	
	False	
28.	We use the method of joint to find the net force acting over the entire structure.	1 point
	Mark only one oval.	
	True	
	False	

29.	Zero force members has loadings.	1 point
	Mark only one oval.	
	a) Infinite	
	b) No	
	c) Minimum	
	d) Maximum	
30.	The zero forces are used to improve of the structure.	1 point
50.		i point
	Mark only one oval.	
	a) Stability	
	b) Ductility	
	c) Malleability	
	d) Toughness	
31.	We use the method of joints when the members on which the force to be found are few in number.	1 point
	Mark only one oval.	
	True	
	False	
32.	The method of section cuts the whole structure of trusses into section and	1 point
	then uses the cut out portion for the calculations.	
	Mark only one oval.	
	True	
	False	

33.	Member of the truss will be havingforce only.	1 point
	Mark only one oval.	
	a. Axial b. bending c Radial forces d. Both a and b	
34.	Member of the frame will be having force only.	1 point
	Mark only one oval.	
	a. Axial Tension and compression	
	b. bending	
	c Radial forces	
	d. Both a and b	
35.	Forces in the member of the frame are subjected to	1 point
	Mark only one oval.	
	bending	
	simple tension or compression	
	only axial forces	
	bending as well as simple tension or compression	

36.	All joints in the frames are	1 point
	Mark only one oval.	
	<u>pins</u>	
	simple	
	rollers	
	all of the above	
37.	In the frames, loads are applied	1 point
57.	in the frames, loads are applied	Гропп
	Mark only one oval.	
	only at the joints	
	middle part of the member	
	any where on the members	
	none of these	
38.	In the frames, the members which are used may be	1 point
	Mark only one oval.	
	zero foce member	
	multi force member	
	two force member	
	All of above	

39.	In the frames, at least one member must be	1 point
	Mark only one oval.	
	zero foce member	
	multi force member	
	two force member	
	All of above	
40.	Which of the following statement is correct? A. In the analysis of frames, FBD of each member is considered separately. B. In the analysis of truss, FBD of each joint is considered separately.	1 point
	Mark only one oval.	
	only A	
	only B	
	both A and B	
	none of the above	
41.	Trusses, frames and cable system are the stationary structure which are	1 point
	used to carry loads only.	
	Mark only one oval.	
	Correct	
	Incorrect	

42.	Cables are members	1 point
	Mark only one oval.	
	rigid	
	flexible	
	inelastic	
	all of the above	
43.	During the analysis, Cables are considered to be	1 point
	Mark only one oval.	
	inextensible	
	extensible	
	none of above	
	all of the above	
44.	During the analysis, self weight of Cables is	1 point
	Mark only one oval.	
	considered	
	neglected	
	none of above	
	all of the above	

45.	During the cable analysis, it is considered that Loads acting on the cable is only	1 point
	Mark only one oval.	
	Concentrated / Point load	
	UDL	
	Rectangular Load	
	UVL	
46.	What is the shape of deflection of cable between the two load points?	1 point
	Mark only one oval.	
	Parabolic	
	Straight line	
	Hyperbolic	
	None of above	
47.	The nature of forces in cable is always	1 point
	Mark only one oval.	
	bending	
	compressive	
	twisting	
	tensile.	

48.	In the cable system, both the end supports must be	1 point
	Mark only one oval.	
	Hinged / Pined	
	Roller	
	One hinge, other roller	
	Permanent	
49.	The cable and the supporting loads are always in	1 point
	Mark only one oval.	
	one plane	
	different planes	
50.	The tension in the cable is maximum where the cable makes inclination with the horizontal.	1 point
	Mark only one oval.	
	minimum	
	maximum	
	45 °	
	less than 45 °	

51.	The tension in the cable is minimum where the cable makes inclination with the horizontal.	1 point
	Mark only one oval.	
	minimum	
	maximum	
	45 °	
	less than 45 °	
52.	Horizontal reactions in cable supports are always	1 point
	Mark only one oval.	
	Equal	
	Zero	
	Maximum	
	Minimum	
53.	Tension in cable parts nearest to both hinge support depends on	1 point
	Mark only one oval.	
	Horizontal reaction at the support	
	Vertical reaction at the support	
	Resultant reaction at the support	
	None of above	

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