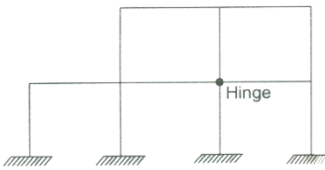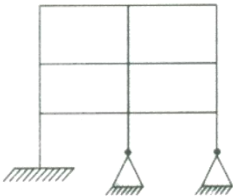Total degree of indeterminacy (both internal and external) of the plane frame shown in the given figure is
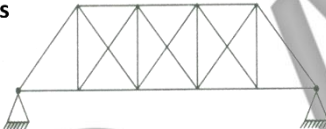

a. 10
b. 11
c. 12
d. 15

2. The total (both internal and external) degree of static indeterminacy of the plane shown in the given figure is

a. 18
b. 16
c. 14
d. 13

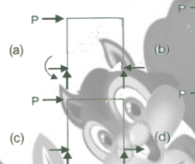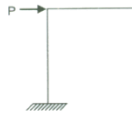3. The total degree of indeterminacy (both internal and external) for the bridge truss shown in the given figure is

a. 4
b. 5
c. 6
d. 3

4. The degree of indeterminacy of the beam given above is

a. Zero
b. One
c. Two
d. Three

5. Which of among the following is the correct free body diagram for a portal frame shown in figure given below ?

6. What is the total degree of indeterminacy, both internal and external of the plane frame shown below?

a. 10
b. 11
c. 12
d. 14

7. Which one of the following is correct ?
A determinate structure

a. Cannot be analyzed without the correct knowledge of modulus of elasticity
b. Must necessary have roller support at one of for ends
c. Required only statically equilibrium equations for its analysis
d. Will have zero deflection at its ends

8. Which one of the following is correct?
A statically indeterminate structure is the one which

a. Cannot be analysis at all
b. Can be analysed at all
c. Can be analysed using equations of statics and compatibility equations
d. Can be analysis using equations of compatibility only

9. What is the statical indeterminacy for the frame shown in the figure ?
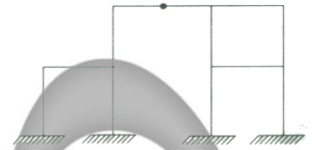
a. 12
b. 15
c. 11
d. 14

10. What is the total degree of indeterminacy (both internal and external) of the triangular planar truss shown in the figure ?

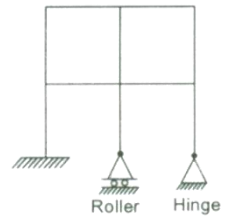a. 2
b. 4
c. 5
d. 6

11. What is the total degree of indeterminacy in (both internal and external) of the cantilever plane truss shown in the figure?

a. 2
b. 3
c. 4
d. 5

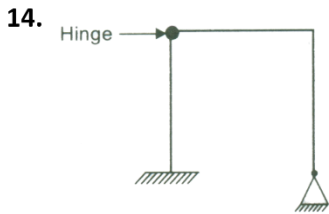12. What is the kinematic indeterminacy for the frame shown above ? (member inextensible)
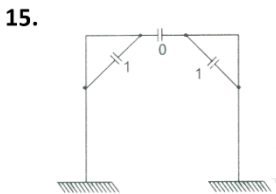

a. 6
b. 11
c. 12
d. 21

13. If the axial deformation is neglected, what is the kinematic indeterminacy of a single bay portal frame fixed ay base ?

   a. 2
   b. 3
   c. 4
   d. 6

14.
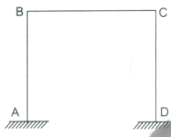

Hinge kinematic indeterminacy of the frame is

   a. 4
   b. 6
   c. 8
   d. 10

15.

The degree of static indeterminacy for the rigid frame as shown above is
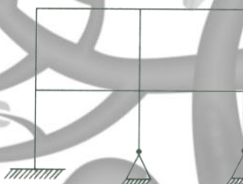
   a. 3
   b. 4
   c. 5
   d. 6

16. A single-bay single - storeyed portal frame ABCD is fixed at A and D as shown in the figure. IF axial deformation is neglected , the kinematic indeterminacy is.

   a. 3
   b. 2
   c. 6
   d. 4

17. What is the number of kinematic indeterminacy for the building frame as shown in the figure when members are inextensible ?

   a. 8
   b. 10
   c. 12
   d. 16