



(c) Identify a hinged support out of the following ones :



(d) Identify a simply supported beam :



(e) Force/Area is termed as :

- (i) Strain                      (ii) Stress  
(iii) Modulus                (iv) Foundation

(f) Determination of internal actions in structures is considered in :

- (i) Analysis  
(ii) Design  
(iii) Drafting  
(iv) None of the above

(g) Mild steel is :

- (i) ductile  
(ii) brittle  
(iii) both the above  
(iv) none of the above

2. (a) Define the term 'Strain' with an example. 7  
(b) Discuss what do you normally expect from a structural system. Write briefly. 7
3. (a) What do you understand by 'Man made forms' ? Describe briefly. 7  
(b) Write any two important functions of a structure. Explain them briefly. 7
4. (a) Differentiate between 'Dead load' and 'Live load'. 7  
(b) Discuss what do you understand by a 'Uniformly Distributed Load'. 7
5. (a) What is meant by 'Factor of safety' ? Write any two factors affecting it. 7  
(b) Discuss why stability is important for any structure ? 7
6. (a) What do you understand by 'Primary elements' in a structure ? Discuss briefly. 7  
(b) Discuss the nature of wind load briefly. 7
7. Write short notes on **any two** of the following :  $7 \times 2 = 14$   
(a) Forces of nature  
(b) Effects of temperature variation in structures  
(c) Criterion for design
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