

इतर से कपड़ों का महकाना कोई बड़ी बात नहीं है, मज़ा तो तब है जब आपके किरदार से खुशबु आये।

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- Q:) The bending moment diagram for a cantilever whose free end is subjected to a point load will be of shape:
- A : Triangle
- **B** : Parabola
- **C** : Rectangular
- D : Cubic parabola



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- **Q** :) The ratio of θ_A and θ_B for beam as shown will be:
- A:1:2
- **B:2:1**
- C:1:1
- D:1:3



Daily Class – 7:00 PM

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Q :) The degree of static indeterminacy N_s and the degree of kinematic indeterminacy, N_k for the plate frame as shown neglecting axial deformation are given by:

A:
$$N_s = 6$$
, $N_k = 1$
B: $N_s = 4$, $N_k = 6$
C: $N_s = 6$, $N_k = 6$
D: $N_s = 4$, $N_k = 4$





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- Q:) A fixed beam of span L, is subjected to a uniformly distributed load w per unit length. If beam has constant flexural rigidity, the fixed end moment is:
- $A : wL^{2}/4$
- $B:wL^{2}/6$
- $C : wL^2/8$
- D:wL²/12



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Q:) Which of the following statement is correct for flexibility method of analysis:-

- A : The method is used to analyse determinate structures
- B : The method is used only for manual analysis of indeterminate structures.
- C : The method is used for analysis of indeterminate structures with lesser degree of static indeterminacy
- D : The method is used to analyse flexible structures.



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Q:) Rankine's formula is used for the analysis's formula is used for the analysis of steel compression member if the slenderness ratio $\left(\frac{l}{r}\right)$ is-A: $120 < \frac{l}{r} < 200$ B: 200 < $\frac{l}{r}$ < 250 C: 100 < $\frac{l}{r}$ < 150 **D**: None of above



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- Q:) In plate girders, the web plate is provided with stiffness when the ratio of clear depth to thickness of web is greater than:
- A:58
- **B:85**
- **C:68**
- D:75



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Q:) In plastic design of structures, if

degree of statical indeterminacy is 'i, the number of hinges 'p' required to convert the structure into mechanics is given by:

- A : p = i + 3
- B : p = i + 2
- C : p = i + 1
- **D** : None of above



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- Q :) Allowable average shear stress in an un-stiffened web for beams made of steel of grade 250 N/mm² is:
- A : 250 N/mm²
- **B : 165 N/mm²**
- C : 150 N/mm²
- **D** : 100 N/mm²



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- Q:) A steel plate of 300 mm width and 10 mm thick has the diameter of the bolt hole as 20 mm.
- A : 1800 mm²
- **B : 2800 mm²**
- C: 3000 mm²
- **D : 2700 mm²**



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Daily Class – 7:00 PM

Q:) If I_b is the moment of inertia of the rolled beam section, A_p is the area of cover plates in one flange and 'h' is the distance between the centroid of the top and bottom flange plates, moment of inertia of built-up girder is given by:

$$A:I = \begin{bmatrix} I_b + 2A_p \left(\frac{h}{2}\right)^2 \end{bmatrix}$$
$$B:I = \begin{bmatrix} I_b + 2A_p \left(\frac{h}{2}\right)^3 \end{bmatrix}$$
$$C:I = \begin{bmatrix} I_b + 2A_p \left(\frac{h}{2}\right)^2 \end{bmatrix}$$
$$D:I = \begin{bmatrix} I_b + 3 \left(\frac{h}{2}\right)^2 \end{bmatrix}$$



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Daily Class – 7:00 PM

Q:) If 'M' is maximum moment in the plate girder, 'P' is allowable bending stress and 't_w'. Is the thickness of web, economical depth for a girder is given by:

$$A: \sqrt{\left(\frac{M}{P}\right)^{*}} t_{w}$$

$$B: 1.2 \sqrt{\left(\frac{M}{P}\right)^{*}} t_{w}$$

$$C: 1.1 \sqrt{\frac{M}{(P.t_{2})}}$$

$$D: 1.3 \sqrt{\left(\frac{M}{P}\right)^{*}} t_{w}$$



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Daily Class – 7:00 PM

Q:) Normally, the pitch of roof truss with asbestos sheets should not be less than:

A:
$$\frac{1}{2}$$
 of span
B: $\frac{1}{4}$ of span
C: $\frac{1}{7}$ of span
D: $\frac{1}{12}$ of span



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- **Q** :) Gantry girders and designed to resist
- •
- A : Lateral loads
- B : Lateral, longitudinal and vertical loads
- **C : Longitudinal and vertical loads**
- D : Lateral and longitudinal load



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- Q:) As per IS code, the maximum pitch of rivets in compression flange (thickness 't;) of a built up beam is:
- A : Lesser of 200 mm and 12t
- B: Lesser of 250 mm and 12t
- C: Lesser of 200 mm and 16t
- D: Lesser of 250 mm and 16t



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- Q :) In a plate girder, bending moment is primarily resisted by:
- A : Web plate
- **B** : Flange plate only
- C : Flange angle only
- D : Flange plate and flange angle



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- Q:) The gross diameter of a rivet is the diameter of :
- A : Rivet hole
- **B** : Rivet measured before driving
- **C** : Rivet measured after driving
- **D** : None of the above



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- Q:) Which of the following sections will have large shape factor:
- A : Diamond
- **B** : Rectangle
- **C**: I-section
- **D** : Solid circular section



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- Q:) Which of the following sections should preferably be used at places where torsion occurs?
- A : Angle section
- **B** : Box type section
- **C** : Channel section
- **D** : None of the above



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- **Q**:) Load factor is defined as
- A: Ultimate load / yield load
- B: Yield load / working load
- C: Ultimate load / working load
- **D** : None of the above



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- Q:) The effective length of a column, held in position and restrained in direction at one end and the other end is free, is equal to:
- A:0.67 L
- **B** : L
- **C**:1.2L
- D:2.00 L



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- Q:) The permissible bending stress in the slab base of steel columns for all grades of steel is limited to:-
- A : 185 N/mm²
- **B : 165 N/mm²**
- C : 175 N/mm²
- **D : 200 N/mm²**



Result: SSC JE 2019

Selected Candidates For DV From EverExam 100 + SELECTION



Abhishek Gaur







Pankaj Gupta



Vaibhav Sharma

Randhir Das













Mohd Zaid Raza Khan





Tarique Akhter Deepak Yadav



Vikas Kumar Singh





Arpit Verma



Saguna Chaudhary



Aman Verma

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