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Introduction to Connections

Design of Steel Structures



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In ___ joint, the members to be connected are kept over each other

- a. Butt
- b. Cross
- c. Lap
- d. Dovetail



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The load lines or stress lines in ____ do ____

- a. Lap joint, coincide
- b. Lap joint, not coincide**
- c. Butt joint, not coincide
- d. Double cover butt joint, not coincide



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Couple formation in lap joint takes place due to

- 
- a. load/stress lines being non collinear
 - b. Absence of cover plates
 - c. Both of the above
 - d. None of the above

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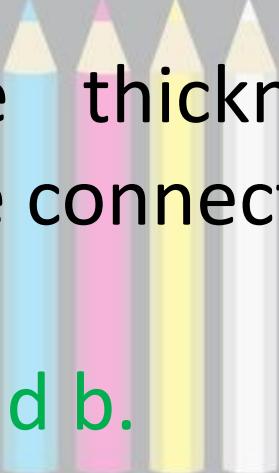
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In a lap joint, the minimum lap should not be less than

- 
- a. 4 times the thickness of thinner member to be connected
 - b. 40 mm
 - c. Lesser of a. and b.
 - d. Greater of a. and b.

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Select correct statements regarding lap joint

1. Formation of couple
2. Bending of fasteners
3. Nil eccentricity



a. 1 & 2, b. 1 & 3, c. 2 & 3, d. 1, 2 & 3

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In ___ joint, members to be connected are kept end to end

- a. Single cover butt
- b. Double cover butt
- c. Both
- d. None



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State whether the following statements are true or false

“Cover plate is mandatory in butt joint but not at all needed in lap joint”



- a. True
- b. False

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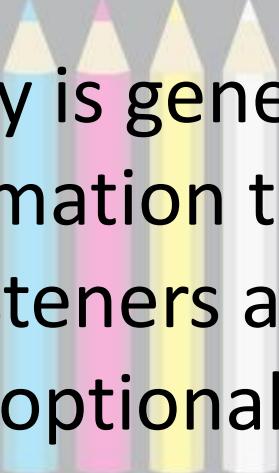
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Select the correct statement/s regarding butt joint

- 
1. No eccentricity is generated
 2. No couple formation takes place
 3. Bending of fasteners arises
 4. Cover plate is optional

a. All, b. 1 & 4, c. 1,3 & 4, d. 1 & 2

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Transfer of shear strength through double cover butt joint is almost ____ that of joint

- a. Double
- b. 4 times
- c. Half
- d. $1/4^{\text{th}}$



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