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Explain in detail various forces considered in design of bridges.

State explain factors for selection of types of bridges.

(c) What are functions of bearings? Enlist type of bearings and explain any one of them in details

SECTION-B

- Design a rectangular tank of capacity 1,00,000 litres of water supported over 12 m staging. Columns are supported over concrete pedestal of M20 grade. Beaning capacity of soil is 120 kN/m². Plate of 1.25 m × 8.75 m length are available.
- Design a rectangular steel bunker of 14 m length and 6 m width supported on Eight columns (4 along each side) to store a coal of bulk density 8 kN/m3 and angle of Internal friction is 30°. Ht. of vertical portion is 4.5 m and height of Hopper position is 4.5 m.
- (a) Explain Role of shear connector in composite beam and then explain types of shear connecto used.
 - (b) Design a composite beam with flexible shear connectors for following data:
 - (1) Span of beam = 6 m

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data:

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