

Q (1) Ans → Comparison between the RCC and prestressed concrete under flexure.

⊕ In RCC beam the concrete on the compression side of the neutral axis of the axis alone is effective the concrete on the tension side of the neutral axis is ineffective. But in the prestressed concrete beam the entire section is effective.

⊕ Reinforce concrete cement is generally heavy they always need shear reinforcement besides the longitudinal reinforcement for flexure, prestressed concrete beams are lighter. By providing the curved tendons and the pre-compression a considerable part of the shear is resisted.

⊕ In RCC beams there is ~~only~~ no way testing the steel and the concrete.

In prestressed concrete (PC) beams testing of steel and concrete can be made while prestressing.