

**DRAUGHTSMAN (CIVIL)**  
**(PRACTICAL)**  
**SEMESTER – III**

Time: 8 Hrs.

Marks: 270

Note: Attempt all questions.

1. Prepare the Bar Bending arrangement for a simply supported beam (450 x 250 mm) of clear span 1.8 meter and resting on brick wall of 200 mm thickness. It is reinforced as below:-  
  
Tension Bars = 3 Nos. 12 mm. Diameter  
Hanger Bars = 2 Nos. 8 mm. Diameter  
Stirrups = 6 mm. Diameter, @ 150 mm c/c (70 marks)
2. Draw to scale fully dimensional cross section of a Railway Track on an Embankment Board Gauge (Double Lane) with wooden sleeper. Also show details of rails and fixing to sleepers (100 marks)
3. Draw the layout plan of a residential building showing drainage scheme to main sewer. (100 marks)

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