

**P-1**

17/A/C/S-1/4/E

31/217

**DRAUGHTSMAN CIVIL  
(PRACTICAL)  
SEMESTER-I**

**TIME: 8 HRS.**

**MARKS: 270**

**Note: Attempt Any Three questions in all. All questions carry equal marks.**

1. Draw the symbols and conventional representation for the following mentioned items as per IS962-1989 for building drawings:
  - (a) Railways line (single)
  - (b) Canal stream
  - (c) Grave yard or cemetery
  - (d) Stair
  - (e) Rain water Gutter
  - (f) Refrigerator
  
2. Draw the following masonry with suitable scale-
  - (a) English bond with 2 brick wall
  - (b) Diagonal bond with stretching faces at every 5<sup>th</sup> or 7<sup>th</sup> course
  - (c) T-junction with one brick thick
  
3. Draw the following water proofing treatment in the buildings.
  - (a) When pipe passes through concrete roof
  - (b) Projecting pipe on flat roof
  
4. Draw the following drawing of arches and lintels
  - (a) Semi circular arch of clear span of 1.2m
  - (b) 60° segmental arch
  - (c) R.C.C linter of clear span 1.2 m with 12mm dia bar as main reinforcement

\*\*\*\*\*