

No. of Printed Pages : 4  
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220725

## SECTION-B

**Note:** Attempt any five questions out of eight questions.  
(5x8=40)

**2nd Sem. / Civil**

**Subject : Civil Engineering Practices**

Time : 3 Hrs.

M.M. : 60

## SECTION-A

**Note:** Draw & Define very short questions. Attempt any eight questions out of ten questions. (8x1=8)

- Q.1 Draw the symbol of Glass. (CO2)
- Q.2 Draw the symbol of Metal. (CO3)
- Q.3 Draw the symbol of wood. (CO4)
- Q.4 Draw the symbol well. (CO6)
- Q.5 Draw the symbol for a Brick. (CO10)
- Q.6 Draw the symbol of river. (CO12)
- Q.7 Draw the symbol for a Segmental Arch. (CO5)
- Q.8 Draw the symbol for Dam. (CO9)
- Q.9 Draw the symbol for Bell. (CO2)
- Q.10 Draw the symbol for Bed. (CO7)

(1)

220725

- Q.11 Draw the details of a spread footing foundation for a load-bearing wall showing the thickness of walls, offsets, and position of DPC. Include the concrete and brick apron details in the drawing. (CO2)
- Q.12 Draw the plans of 'T' junctions of walls with 1 Brick, in English bond. (CO3)
- Q.13 Draw the plan and elevation of a circular arch. (CO4)
- Q.14 Prepare the elevation, sectional plan, and sectional side elevation of a flush door. (CO6)
- Q.15 Draw the damp proofing arrangement for a roof and walls as per BIS Code, and show the rainwater drainage arrangement. (CO4)
- Q.16 Draw the damp proofing details in the basement of a building. (CO3)

(2)

220725

Q.17 Draw the cross-section of a typical unlined channel.  
(CO8)

Q.18 Draw the typical L-section of weir.

### SECTION-C

**Note:** Attempt any one questions out of two questions.  
(1x12=12)

Q.19 Draw the typical cross-section of an Diaphragm type earthen dam, provide detailed labels dam. (CO10)

Q.20 Draw the layout and across-section of a rainwater harvesting system for a building with a rooftop area of 200 square meters. Use the following data:  
(CO11)

Average annual rainfall = 800 mm

Runoff coefficient = 0.85

Design for storage capacity of 50,000 liters.