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Roll No. .....

220725

2nd Sem. / Civil

Subject : Civil Engineering Practices

Time : 3 Hrs. M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (7x2=14)

Q.1 Draw the free hand sketch of a segmental arch.

Q.2 Draw the symbol of a "Main Canal".

Q.3 Draw the symbol of "Brick Work".

Q.4 Draw the symbol of "Door Opening".

Q.5 Draw "King Closer".

Q.6 The inner and outer surface of an arch ring in called _____ (Soffit / Style)

Q.7 An hydraulic structure which supplies water to an off taking canal is called a_____ (Drain /Head works)

SECTION-B

Note: Short answer type questions. Attempt any six questions out of eight questions. (6x6=36)

Q.8 Draw the section of a simple spread foundation without plinth projection for "one and half brick thick wall" by applying the thumb rule method.

Q.9 Draw the plan of corner L-Joint of a 200m thick wall in English bond.

Q.10 Draw the elevation and sectional side elevation of a glazed door.

Q.11 Draw the section of a basement with RCC flooring, Showing the details of damp proofing of floor.

Q.12 Draw the cross-section of an unlined channel fully in filling with the following data:

R.L. of ground = 100.00, R.L. of bed = 100.30, R.L. of F.S.L. = 10.50,

R.L. of Bank = 102.10, R.L. of dowla = 102.30, R.L of Inspection road = 101.80 and Hydraulic gradient = 4:1 (by assuming or calculating the missing data as per specifications)

Q.13 Draw the typical longitudinal section of a vertical drop weir with the following data:

Length of weir = 30 m, Height of weir above low water = 2.0 m and Height of crest shutter = 0.5 m (by assuming or calculating the missing data)

Q.14 Draw the X-section of a homogeneous type earthen dam, by assuming the suitable data.

Q.15 Draw the cross-section of a cavity type tube well.

SECTION-C

Note: Long answer type questions. Attempt any one questions out of two questions. (1x10=10)

Q.16 Draw the sectional details of the damp proof arrangements for the roof of a building as per BIS code having the roof size of 10mx12m and also show the rain water pipe installation details.

Q.17 Draw the layout and cross section of rain water harvesting system required for a two room set building.