

BOARD OF TECHNICAL EDUCATION

PORVORIM-GOA

November, 2008 Examinations

Programme: CIVIL ENGINEERING/CT

Course/Subject: CIVIL ENGINEERING DRAWING-III (4010)

Time Duration: 4 Hrs.

Max. Marks: 75

- INSTRUCTIONS:** 1. All Questions are compulsory.
2. Figures to the right indicate full marks.
3. Assume suitable additional data if required.

Q.No.1. Design and draw details of a residential building on a plot of 17.5m x 20m with the following provisions

- a) On ground floor - a kitchen, a **living cum dining**, a bath room, w/c and car parking
- b) On first floor- Two bed room one with attached toilet, a study room, a family room, common toilet and balconies.

Roof shall be partly flat and partly pitched

Draw to a scale of 1:50

- i) Plan GF and FF (18)
- ii) Front Elevation (08)
- iii) Section passing through staircase and toilet. (09)

Q.No.2. Answer any one of the following:- (1x20=20)

- a) With a neat line diagram show the various units required for a primary health centre **situated** in a village panchayat limit having a population of 15,000 people. Name each units indicating clear dimensions of all units.
- b) Draw to suitable scale a primary school with 16 class rooms, staff rooms, Library, **auditorium**, toilets and other necessary units on ground plus one **structure** on plot of 2000m² area. Indicate on the drawing dimensions of all units.

Q.No.3. Answer any four of the following:- (4x5=20)

- a) Explain what are the contents to be included in submission drawing for sanctioning authority for approval of construction of residential building.
- b) Describe the role of an architect and structural engineer in a project.
- c) State minimum requirements as per building bye laws of habitable room, kitchen, Ver andha, staircase, w/c, bath, ceiling height, common toilet, balconies, head room.
- d) Differentiate between load bearing and framed structures.
- e) Enlist principles of planning and explain any two in brief.
- f) Describe the special requirements needed in case of public buildings as compared to residential building planning.

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PORVORIM-GOA

May/June, 2009 Examinations

Programme: CIVIL ENGINEERING/CT

Course/Subject: CIVIL ENGG. DRAWING - III (4010)

Time Duration: 4 Hrs.

Max. Marks: 75

- INSTRUCTIONS:** 1. All Questions are compulsory.
2. Figures to the right indicate full marks.
3. Assume suitable additional data if required.

Q.No. 1. Answer the following:-

- a) Draw a plan of a double storeyed bungalow having a framed structure of floor area 110 m^2 to 130 m^2 with partly flat and partly pitched roof having a carpoarch. (16)
- b) Draw front elevation for the above. (08)
- c) Draw a section passing through toilet and bath. (12)

Q.No. 2. Draw line plans for any two of the following:- (2x11=22)

- a) A primary school in a village.
- b) A college canteen.
- c) A college Library.

Q.No. 3. Write short notes on ANY THREE of the following:- (3x5=15)

- a) Aspect & Prospect.
- b) Architect & Structural Engineer.
- c) Role of plan sanctioning authorities.
- d) Content of submission file.
- e) Load bearing v/s Framed structures.

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