

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-III • EXAMINATION – WINTER 2013****Subject Code: 130603****Date: 07-12-2013****Subject Name: Building and Town Planning****Time: 02.30 pm - 05.30 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Attempt Q.1, Q.2 and Q.3 (a) in drawing sheet and other questions in answer sheet.

- Q.1 (a)** Plan a two storied residential building as per principles of planning and architecture by considering building bye laws. The details of plot are shown in fig. 1(plot no. 12). Plan for a family of six persons belongs to MIG. Draw ground floor and first floor plan of residential building and show all design steps. Also prepare schedule of opening and area table. **14**
- Q.2 (a)** Draw elevation for the building planned in Q.1 **07**
- (b)** Draw detailed sectional elevation with the section plane passing through stairs and with all relevant details for the building planned in Q.1 **07**
- OR**
- (b)** Draw the two point perspective for the object shown in the fig. 2. Select suitable position of observer. Take eye level at 3 m from GL. **07**
- Q.3 (a)** Draw a line diagram of a post office. Take size of units according to general requirements of public building. **07**
- (b)** Discuss symmetry, simplicity and continuity for the planning of building to make it earthquake resistant. **07**
- OR**
- Q.3 (a)** Draw a line diagram of a primary school for a village. Take size of units according to general requirements of public building. **07**
- (b)** Explain the term 'bye-laws'. Explain importance of bye-laws. State bye-laws for minimum area of building unit and margins. **07**
- Q.4 (a)** Explain unity, mass composition and contrast as principles of architecture. **07**
- (b)** Explain principles of neighborhood planning. **07**
- OR**
- Q.4 (a)** Explain important aspects to be kept in mind for rural housing. **07**
- (b)** Define master plan. Discuss stages of preparation of master plan and execution of master plan. **07**
- Q.5 (a)** Explain surveys to be carried out for collection of data for town planning. **07**
- (b)** Explain various aspects of zoning. **07**
- OR**
- Q.5 (a)** Enlist effects of slums and explain characteristic of slums. **07**
- (b)** Discuss salient features town planning of Indus valley civilization. **07**

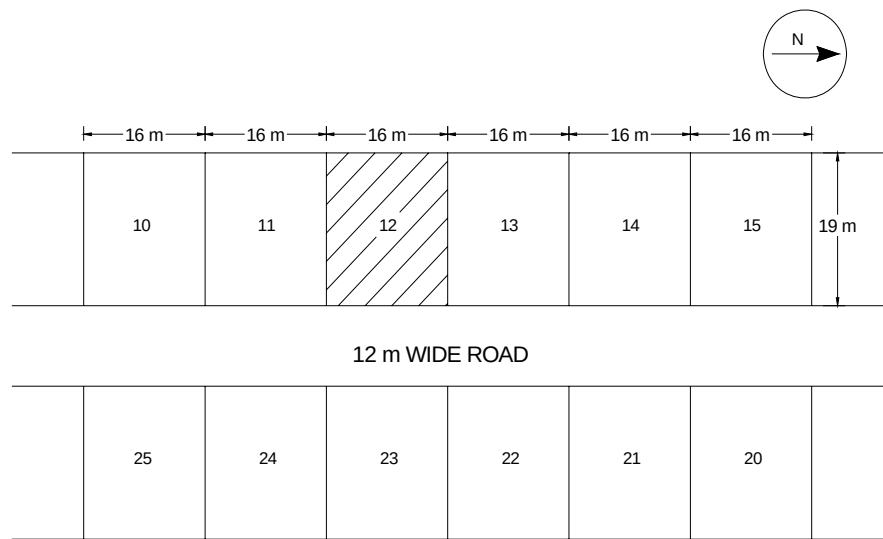
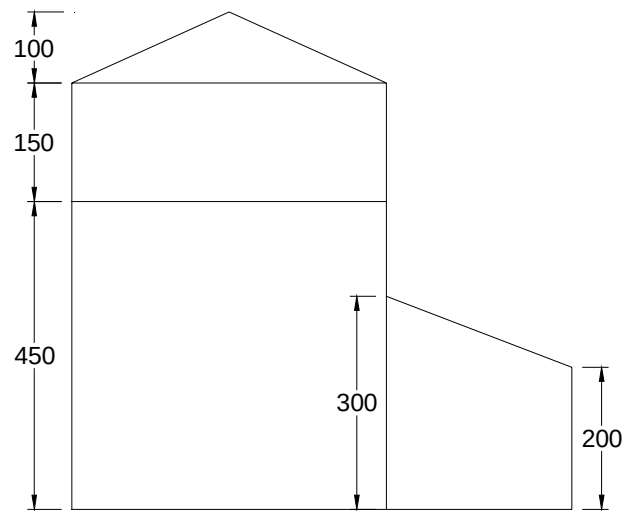


Fig. 1 Q.-1



SECTION

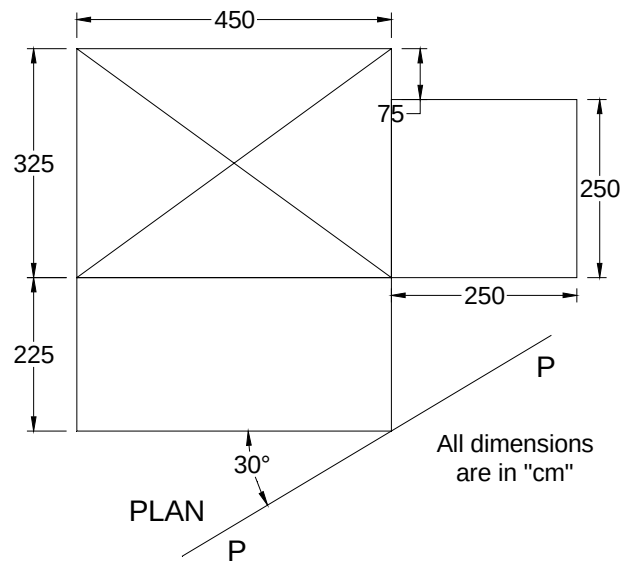


Fig. 2 Q.-2(b) or