

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-IV(New) EXAMINATION – SUMMER 2016**

**Subject Code:2140607****Date:08/06/2016****Subject Name:Building & Town Planning****Time:10:30 AM to 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

|            |  | MARKS     |
|------------|--|-----------|
| <b>Q.1</b> | <b>Short Questions</b>   | <b>14</b> |
| 1          | A structural member which carries lateral or transverse forces is termed as _____.   |           |
| 2          | Define Podium.   |           |
| 3          | Height of compound wall is restricted to _____.  |           |
| 4          | How many no. of storeys is restricted for load bearing?  |           |
| 5          | Define vanishing point.  |           |
| 6          | Define term floor space index.   |           |
| 7          | Economic infrastructure includes _____.  |           |
| 8          | Define slum.   |           |
| 9          | The ratio of height of width of the road will be 2:1 in case of _____ light plane rule.  |           |
| 10         | Recreational land use structure in hill towns of medium town is _____.   |           |
| 11         | Which are the fundamental principles of town planning are?   |           |
| 12         | Define term 'Town Planning'.   |           |
| 13         | What is centre of vision?  |           |
| 14         | Define loft.   |           |
| <b>Q.2</b> | (a) Explain symmetry in planning of earthquake resistant buildings.  | <b>03</b> |
|            | (b) Explain overview of National Building Code.  | <b>04</b> |
|            | (c) Draw a line diagram of a bank. Take size of units, according to general requirements of public building.   | <b>07</b> |
|            | <b>OR</b>  |           |
|            | (c) Draw ground floor and first floor plan of a two storeyed residential building on a 15 X 20 m plot area for a family of six persons as per building bye laws and principle of planning. Also draw front elevation of the building. Assume suitable direction of north and front road. Also assume necessary data. | <b>07</b> |
| <b>Q.3</b> | (a) Explain light plane.   | <b>03</b> |
|            | (b) Draw the neat sketch of site plan and layout plan.   | <b>04</b> |
|            | (c) Enlist principle of planning of engineering and explain any one in detail.   | <b>07</b> |
|            | <b>OR</b>  |           |
| <b>Q.3</b> | (a) Define plinth area, carpet area and floor area.  | <b>03</b> |
|            | (b) Explain classification of buildings based on structural design.  | <b>04</b> |
|            | (c) Differentiate one point, two point and three point perspectives with neat sketch.  | <b>07</b> |

- Q.4** (a) Explain social survey & territorial survey. **03**  
(b) What is the necessity of civic surveys for town planning purpose? **04**  
(c) Write short note on multiple nuclei model. **07**
- OR**
- Q.4** (a) Explain growth of towns. **03**  
(b) Write short note on ribbon development. **04**  
(c) Explain fundamental principles of town planning. **07**
- Q.5** (a) Describe advantages of zoning. **03**  
(b) Enlist principles of neighborhood planning. **04**  
(c) Write short note on characteristics of CBD. **07**
- OR**
- Q.5** (a) What are the objects of the master plan ? **03**  
(b) Enlist urban patterns and explain any one. **04**  
(c) Explain methods of slum clearance in detail. **07**

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