

Seat No. : _____

NP-126

December-2015

B.Arch., Sem.-V

AR-506 : Building Regulations

Time : 3 Hours]

[Max. Marks : 50

- Instructions :**
- (1) All questions are compulsory.
 - (2) Use neat sketches or calculations to illustrate your answer, if necessary.
 - (3) Figures on right indicate the full marks.

1. Describe in detail stage-wise process of securing development permission. **10**
2. How GDCR influences design and construction of buildings ? Explain using examples. **5**

OR

List drawings to be submitted by owner/developer to the competent authority along with application for obtaining and revising a development permission.

3. Define/Explain any **five** of following : **10**
 - (a) Hollow Plinth
 - (b) Porch
 - (c) Plinth
 - (d) Dwelling units
 - (e) Building line
 - (f) Atrium
 - (g) Basement
 - (h) Floor space index
 - (i) Corridor
 - (j) Height of Building
 - (k) Multilevel Parking

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4. Attempt any **five** of following : **10**
- (a) What is refuge area ?
 - (b) Boundary Wall height shall not exceed _____ mts from crown of adjacent road towards road side and _____ mts for all other side of building unit.
 - (c) Minimum clearance to be provided between any building or part thereof and petroleum lines shall be _____ mts from the center of pipeline.
 - (d) Development in the vicinity of protected monuments shall be regulated and controlled in accordance with provisions of _____.
 - (e) For building units within Airport funnel area and critical area and for building units with proposed height more than _____ mts. NOC shall be required from the airport authority.
 - (f) Rain water harvesting is mandatory for all buildings with ground coverage _____ sq. mts. and above.
 - (g) Building unit having area of more than _____ sm. shall be provided with minimum three trees for every 200 sm area or part thereof.
 - (h) Ramp for vehicular access : min. width and radius of ramp for two wheeler is _____ m and car is _____ m.
5. (a) Write an introductory note on National Building Code. (NBC) **5**
- (b) Write a short note on 'T.P. Schemes' mechanism in Gujarat. **5**
6. A building unit (plot) having a size of 30 mts × 50 mts with a 24 mt wide road on the short side has a permissible built up area of 40% and FSI 2.0. Make a sketch and a table of plot area, permissible built up area, proposed built up area, permissible FSI and proposed FSI.
- Note : Maximum permissible building height is G + 4. **5**
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