Note: - Answer all questions.
   - Neat drafting/sketching will be credited.
   - Assume suitable data and scale wherever necessary

1. Draw the damp proofing details of basement in ground where the sub-soil water level is not very high. (12)

1' Draw the plan and sectional details of wooden single floor having the span of 3.5x6.0 m. (12)

2. Draw the sectional details of the following on suitable scale: (4 x 4)
   a) Singly and doubly reinforced beam
   b) Reinforcement B & T beam
   c) Stair case reinforcement details
   d) Marble flooring at ground floor

3. Briefly discuss any Three of the following: (3 x 4)
   i) Source of Dampness
   ii) Linoleum Flooring
   iii) Admixtures
   iv) Types of Mortar
   v) Order and method of removing Form Work
<table>
<thead>
<tr>
<th>Q.No.</th>
<th>Question</th>
<th>M.M.</th>
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<tbody>
<tr>
<td>1</td>
<td>Explain the following terms related to perspective projection and support them with neat sketches:</td>
<td>10</td>
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<tr>
<td></td>
<td>a) Vanishing Point</td>
<td></td>
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<td></td>
<td>b) Station Point</td>
<td></td>
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<tr>
<td></td>
<td>c) Eye Level</td>
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<tr>
<td></td>
<td>d) Bird's eye view</td>
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<tr>
<td>2</td>
<td>Draw the two point perspective of the house in figure 1 and render it with trees, automobiles, road, human being etc. The eye level is 1500mm.</td>
<td>30</td>
</tr>
</tbody>
</table>
1. Discuss the important architectural characteristic features that help recognize the buildings of the following periods. (Attempt any 2).  
   a) Gothic architecture  
   b) Romanesque architecture  
   c) Greek architecture

2. Differentiate between the building design and construction features of the churches of early Christian period and Byzantine period.  

3. Discuss various types of vaults used by people in different periods of Western architecture. Also mention the style in which they were used.  

OR

37. Draw and explain various types of orders used in Greek architecture.

4. Briefly explain the following terms.  
   a) Thermas  
   b) Narthex  
   c) Cloisters  
   d) Baptistry  
   e) Campanile  
   f) Archivolt  
   g) Crepidoma  
   h) Mannerism  
   i) Entasis  
   j) Pendentive

5. Discuss the following examples and support with sketches. (Attempt any 3)  
   a) The Acropolis, Athens  
   b) Bent Pyramid  
   c) The Pantheon, Rome  
   d) St Sophia, Constantinople  
   e) The Colosseum, Rome
2012-2013
B.ARCHITECTURE WINTER (IV SEMESTER) EXAMINATION
BUILDING BY LAWS AND REGULATIONS
(AR-212)
Credits: 03

Max Marks : 60
Duration: Three Hours

Answer all the questions.
Assume suitable data if missing.
Notations if used have their usual meaning.

1. What special features are to be incorporated in Municipal Drawings needed for approval from Development Authorities? Briefly describe the contents of a "Complete set of Submission Drawings".

   OR

2. Describe the objective, scope and content of Master Plans. How is a Zonal Plan different from Master Plan?

2. Differentiate any Three of the following:

   a) Smoke Detector and Sprinkler.
b) Fire Prevention and Fire fighting.
c) Land use Plan and Layout Plan.
d) Building line and setback.
3. Discuss the provisions in the building bye laws with respect to following:
   i) Requirements of basement floor.
   ii) Minimum height and size of mezzanine floor.
   iii) Light and ventilation with respect to different climatic zones.

4. A small Commercial Plot measuring 20m x 30m located in a Community Centre subjected to the maximum ground coverage of 60% and FAR 300 with fullest land utilization and uniform floor areas. How many floors can be built on the plot? (10)

5. Write short notes on any Three of the following: (3 x 4)
   a) Ground Coverage.
   b) Off-street Parking norms.
   c) Importance of Set-backs in residential buildings.
   d) Static water Storage tanks for fire fighting purpose.
   e) Stilt floor.
2012-13
B.Arch. (Winter Semester) Examination
Architecture Design -II
AR 252

Maximum Marks: 40
Credits: 08
Duration: Six Hours

Answer all the questions.
Assume suitable data if missing.
Neat and good drafted drawings will be credited more.
Viva by will also be conducted as a part of evaluation process.

Guest House

Design a ‘Guest House’ for newly constructed Indian Institute of Technology (IIT) at Gandhinagar. The site measuring 45m X 55m having approach road towards North (or shorter side of the site) for the proposed Guest House is located inside the campus of IIT, Gandhinagar.

Design Requirements:

1. Office
2. Reception + Entrance Lobby
3. Double Bed Rooms (with attach toilet) 25nos
   25 sq. m.
   As required
   20 sq. m. each (including toilet)

3. Dining Hall + TV Lounge
4. Kitchen (including Pantry, wash, store)
   80 sq. m.
   25 sq. m.

5. Toilet for male and female
6. Parking for 4 cars 10 two wheelers

Drawings Requirements:

All Plans (1:100 scale)
Elevations
Sections

Marks
25
08
07
B.A.R.C.H. (WINTER SEMESTER) EXAMINATION
Architecture Design -II
AR 252N

Maximum Marks: 40  Credits: 07  Duration: Six Hours

Answer all the questions.
Assume suitable data if missing.
Neat and good drafted drawings will be credited more.
Viva by will also be conducted as a part of evaluation process.

DESIGN GALLERY

National Institute of Design (NID) is one of the prestigious institutes of India imparting education and at various levels in the area of product & graphic designs. The authorities of newly constructed NID at Lucknow have decided to construct a 'Design Gallery' to show products and achievements of institute to its visitors.

The site measuring 45m X 50m having approach road towards south (on shorter side of the site) for the proposed Design Gallery is located inside the campus of NID, Lucknow.

You are required to design the above mentioned Design Gallery with following design and drawings requirements:-

**Design Requirements:-**

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<table>
<thead>
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<tbody>
<tr>
<td>1</td>
<td>Office</td>
</tr>
<tr>
<td>2</td>
<td>Display Galleries/Halls (6 Nos)</td>
</tr>
<tr>
<td>3</td>
<td>Store</td>
</tr>
<tr>
<td>4</td>
<td>Tea/Coffee Counter</td>
</tr>
<tr>
<td>5</td>
<td>Toilet for male and female</td>
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<tr>
<td>6</td>
<td>Parking for 5 cars 10 two wheelers</td>
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<tr>
<td></td>
<td>40 sq. m.</td>
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<tr>
<td></td>
<td>75 sq. m. each</td>
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<tr>
<td></td>
<td>40 sq. m.</td>
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<tr>
<td></td>
<td>10 sq. m.</td>
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<tr>
<td></td>
<td>As required</td>
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<td>As required</td>
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</table>

**Drawings Requirements:-**

<table>
<thead>
<tr>
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<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Plans (1:100 scale)</td>
<td>25</td>
</tr>
<tr>
<td>Elevations</td>
<td>08</td>
</tr>
<tr>
<td>Sections</td>
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</table>