**Q.No.** | **Question**                                                                                                                                                                                                                                                                                                                                                           | **M.M.** |
---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
1   | Differentiate between Art Deco and Art Nouveau movements in arts and architecture with examples of any one building from each period.                                                                                                                                                                                                                             | 12      |
2   | a) Explain ‘Dadaism’ art movement with sketches.                                                                                                                                                                                                                                                                                                                        | 6       |
    | b) “Surrealism style uses visual imagery from the subconscious mind to create art without the intention of logical comprehensibility” Illustrate                                                                                                                                                                                                                     | 6       |
3   | a) Describe with sketches how the architect Geritt Rietveld was able to meet all the criteria given by Ms Scand created a masterpiece “Schroder House”.                                                                                                                                                                                                     | 6       |
    | b) Illustrate salient features of furniture & jewelleries of Bauhaus School.                                                                                                                                                                                                                                                                                         | 6       |
4   | Describe design philosophy and any two important projects of architects Jacques Herzog & Pierre De Meuron.                                                                                                                                                                                                                                                             | 12      |
4'  | Describe design philosophy and any two important projects of architect Norman Foster.                                                                                                                                                                                                                                                                               | 12      |
5   | Explain any two of the followings:-                                                                                                                                                                                                                                                                                                                                | 6+6     |
    | a) Cubism                                                                                                                                                                                                                                                                                                                                                                                                                     |         |
    | b) Curriculum map of Bauhaus School.                                                                                                                                                                                                                                                                                                                           |         |
    | c) International Style                                                                                                                                                                                                                                                                                                                                         |         |
Q.1.a) Write in brief about the following terms (any four): [4×1.5=6]
   i) National Capital Region
   ii) Housing backlog
   iii) Mixed land use
   iv) Diagnostic approach
   v) Ground coverage

Q.1.(b) Write down the General terms and conditions governing mixed use as per MPD-2021? [06]

Q.2. What is zoning? What are the various types of zoning? Explain in detail. [12]

Q.3. What is a Master Plan? Explain in detail the various land uses permitted in a town. [12]

OR

Q.3. What are the various types of surveys conducted for the preparation of a Master Plan? Explain in detail any two. [12]

Q.4.a) A residential sector measures 800m x 600m. The population of the sector is 7200. The net residential area is 55%. Find the gross and net residential density of the sector.

If the distribution of population is as under: [06]

Contd.....2.
Find the total number of plots needed by each income group.

(Average size of the family = 05 persons)

Q.4.b) The population of a town is 50000. The shelter less population is 5000. The decadal growth of population is expected to be 8% in the next 20 years. The housing survey has given the following picture regarding the quality of housing stock.

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Future life</th>
<th>Gradation of building</th>
<th>% of dwelling units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>50 yrs and above</td>
<td>Very good</td>
<td>35</td>
</tr>
<tr>
<td>2.</td>
<td>25-49 yrs</td>
<td>good</td>
<td>30</td>
</tr>
<tr>
<td>3.</td>
<td>15-24 yrs</td>
<td>moderate</td>
<td>20</td>
</tr>
<tr>
<td>4.</td>
<td>5-14 yrs</td>
<td>bad</td>
<td>10</td>
</tr>
<tr>
<td>5.</td>
<td>Less than 5 yrs</td>
<td>Unfit for habitation hence to be replaced</td>
<td>5</td>
</tr>
</tbody>
</table>

If the dwelling units having remaining life span of less than 5 years are to be put in dilapidated category and need to be replaced, find out the total housing backlog to be projected after 20 years in a long term plan.

(Average no. of persons/dwelling unit = 05 persons)

Q.5. What is the importance of regional planning in Indian context? Explain the different types of region in detail.
B.A.R.C.H (WINTER VIII SEMESTER) EXAMINATION
BUILDING CONSTRUCTION, MANAGEMENT AND ECONOMICS
(AR-412)

Credits: 04
Duration: Three Hours

MaximuMarks: 60

Note the following
(i) Answer ALL Questions
(ii) Answer to any question should begin on FRESH PAGE
(iii) All parts of a question should be attempted in ONE CONTINUATION IN ONE COPY
(iv) All questions carry EQUAL marks
(v) ASSUME any data if not given

Q. 1 (a) Discuss various factors of production in detail
      (b) Write a detail account on inherent nature of construction project

Q. 2 (a) Explain the concept of Work Breakdown Structure
      (b) Prepare a Work Breakdown Structure (WBS) for arranging a farewell party to
           final year students. Also mention time and cost

OR

Q.2 (a) In what three major ways CPM network differs from PERT network

      (b) For the network shown in Fig.1, calculate expected time for each activity.
          Present the answer in tabular form and determine the critical path. Optimistic
          most likely and pessimistic time estimates are given on the arrows representing
          the activities.

      (c) Explain the following types of cost with an example:
          (i) Direct Cost
          (ii) Indirect Cost
          (iii) Normal Cost
          (iv) Crash Cost
          (v) Total Cost

Q. 3 (a) In what ways purchasing of capital equipment is different from routine
        Purchasing

      (b) What are the various issues to be examined, during the purchase of, construction
          equipment.

Q. 4 (a) Discuss concept of wage and its types in detail

      (b) Discuss basic philosophy of various types of rewards offered in lieu of
          achievement of a worker in the industry

Contd....2.
OR

Q.4' Write a detail account on Human Resource Management in India

Q.5 Write short note on any three of the following
(i) Motivation (ii) Team Work (iii) Depreciation (iv) Need Definition
(v) Life Cycle Costing (vi) Material Specification

Fig. 1
2015-2016
B.ARCHITECTURE WINTER (VIII -SEMISTER) EXAMINATION
(ARCHITECTURE DESIGN VI
(AR-452V)
Credits: 07

Max Marks: 40
Duration: Six Hours

Note: (i) Neuferts-data and time saver standards are allowed but provision of these is not the responsibility of the department.
(ii) Good drafting shall carry weightage.
(iii) Assume any suitable data wherever desirable.

Design problem

Firozabad is fast developing town being located on the main Agra-Kanpur high way and having well established glass industry. It also has regional importance. U.P. government desires to develop a local hospital comprising OPDS related to Paediatrics, Gynaecology, Medicine, Surgery, TB & Chest, Ophthalmology and Orthopaedics with emergency services and indoor-patient department with 40 beds for emergency and epidemic care in two blocks of 20 beds each for male and female. It has appointed you as architect for the project considering your past works/expertise in hospital design in U.P. as per local laws/byelaws and socio-climatic conditions. It has provided a plot of rectangular shape measuring 100m*200m located on east side of the main road running north-south.

For the above project provide the following

1. List of requirement with area chart. 08
2. Site plan with parking and landscaping. 06
3. Suitable plans to explain your design. 12
4. Section/sections 04
5. Elevations and/ views 04

Viva shall also be conducted to provide you opportunity to explain your concept/design. 06