B.Arch. (VIII Semester) Examination
AR 402, Modern and Contemporary Architecture

Maximum Marks: 60
Credits: 03
Duration: Three Hours

Answer all the questions.

Q.No. Question M.M.
1 Describe architectural character of buildings constructed during 'Art Deco' movement and discuss salient features Chrysler building and Empire State building. [12]

OR

1' Describe architectural character of buildings constructed during 'Art Nouveau' movement and discuss salient features 'Casa Mila' and 'Casa Batllo' designed by architect Antoni Gaudi. [12]

2 Describe 'Neo Plasticism' movement in applied arts and architecture. Discuss design concept of 'Schroder house' with plan and elevations. [12]

3(a) Discuss in detail curriculum map and teaching methodology of Bauhaus School. [06]

3(b) "Dadaism challenged traditional perceptions of art as well as provoked a reexamination of social and moral values" illustrate. [06]

4 Describe design philosophy of architect Santiago Calatrava and also discuss any two important building designed by him. [12]

OR

4' Describe design philosophy of architect Deniel Libsekind and also discuss any two important building designed by him. [12]

5(a) Explain design concept and salient features of 'Seattle Public Library' designed by architect Rem Khoolaas. [06]

5(b) Explain any one of the followings:-
   a) Post Modern Architecture [06]
   b) Deconstruction Architecture
Q.1. Define the following terms: (any five) [5X3=15]
   a) Mixed land use
   b) Zoning
   c) Detached housing
   d) Conforming land use
   e) Master plan
   f) Region

Q.2.(a) What are the governing principles of mixed land use as per MPD-2021? [05]

Q.2.(b) Explain in detail the various types of mixed land use permitted as per MPD-2021. [10]

OR

Q.2.(b') What are the various types of land uses permitted in a Master plan? [10]

Q.3. Explain in detail the socio-economic survey conducted for the preparation of Master Plan. [10]

Q.4.a) The residential sector measures 800m X 600m. The gross density is 100 persons/acre. If the net residential area is 60% Find the total population of the sector and its net residential density. [04]

Q.4.b) The population of a town is 60000. The shelter less population is 5000. The future increase in population is expected to be 5% in the next 15 years. The present stock of houses have 5% dilapidated housing and another 10% have a life span of 5-15 years. If the houses 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 15 years in a long term plan (assume 5 persons/dwelling unit). [06]

Q.5. Explain in detail the concept of regional planning as applied in Indian context. [10]
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 (6)
       (b) Write a detail account on inherent nature of construction project (6)

Q. 2  (a) Explain the concept of Work Breakdown Structure (4)
       (b) Prepare a Work Breakdown Structure (WBS) for arranging a farewell party to final year students. Also mention time and cost (8)

OR

Q.2' (a) In what three major ways CPM network differs from PERT network (3)
       (b) For the network shown in Fig.1, calculate expected time for each activity. Present the answer in tabular form. The optimistic, most likely and pessimistic time estimates are given on the arrows representing the activities (4)
       (c) Explain the following types of cost with an example: (5x1=5)
           (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 (4)
       (b) What are the various issues to be examined, during the purchase of, construction equipment. (8)

Q.4  (a) Discuss concept of wage and its types in detail (6)
       (b) Discuss basic philosophy of various types of rewards offered in lieu of achievement of a worker in the industry (6)

OR

Contd....2.
Q.4 Write a detail account on Human Resource Management in India (12)

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

(4×3=12)
Design problem

Aligarh in its region has developed as an important centre for education especially due to establishment of A.M.U. Aligarh. Many parents desires to send their children to Aligarh for education but find it difficult to provide accommodation and dining facilities even if they are able to get admission in some Aligarh school. An entrepreneur desires to establish a hostel for 180 students with mess, library and sports facilities for such type of students and appoints you as project advisor cum architect considering your experience in designing of academic buildings. It has provided a plot of rectangular shape measuring 75m*125m located on east side of G.T. 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
6. Viva shall also be conducted to provide you opportunity to explain your concept/design. 06