

Total No. of Printed Pages:2

SUBJECT CODE NO: E-703
FACULTY OF ENGINEERING AND TECHNOLOGY
Fifth Year Arch Examination Nov/Dec 2017
A.B.C.M. IX
(OLD)

[Time: 4 Hours]

[Max.Marks:100]

- N.B
- Please check whether you have got the right question paper.
- ii) solve any two questions from Section A and any three questions from Section –B
 - ii) Answer of section A must be solved on drawing sheets only. Answer to section-B can be solved on answers-sheets
 - iii) Assume suitable data wherever necessary
 - iv) Figure to the right indicates full marks.

Section A

Q.1 A leading industrial company is planning to construct an engineering workshop. The dimensions of the workshop are 16.00 Mts × 12.00Mts. The workshop will have steel columns, beams, M.S trusses the columns are placed at every 4.00 Mts centres along the length and breadth of the workshop. The height of the workshop is 6.50 Mts from the top of the floor to the bottom of the Tie member of the truss there is A.C. sheet cladding on all the sides 2.50 Mts above the floor level upto the tie beam level of the workshop. 230 mm brick wall 900mm in height is provided above the floor level. There is full opening above the wall up to the 2.50 M level.

- a) Draw plan elevation and section of the workshop (scale –plan & elevation 1:100) section 1:50 11
- b) Draw large scale details of
 - i. Fixing details of A.C. sheet cladding & steel column 08
 - ii. Fixing of A.C. sheets cladding on the width of the workshop up to the gable end. 08
 - iii. joint between the foot of the M.S. Truss & M.S. column.(assume the appropriate sizes of steel members) 08

Q.2 A passenger elevator for 6 persons is to be installed for a 5 storied apartment building with 4 apartments on each floor. The height of each floor is 3.00 Mts. From the top of slab top to the top of slab. The internal dimensions of the lift car are 1.25 mts ×1.50 mts. The entrance to the elevator is provided through a lobby 4.00 mts x 3.50 mts the height of the plinth is 750 mm above ground level.

- a) Draw plan of elevator car moist way with entrance lobby and section upto the machine room
 - i. Scale plan 1:25 section 1:50 11
- b) Draw large scale details of
 - i. Elevator car with counter weight, guides etc. 08
 - ii. Machine for room details 08
 - iii. Internal finishing of the lift car including fixing of fan, light, flooring etc. 08

2017

Q.3 Draw neat sketches of any four.

- i. Hydraulic lift components with section
- ii. Section of roof exhaust system
- iii. Ventilation and waterproofing for a multi-level basement
- iv. Fixing of A.C. sheets to the roof truss
- v. Conveyor belt at the airport.

09
09
09
08
08

Section B

Q.4 Describe different types of roofing materials. Minimum 4 types.

10

Q.5 Describe the behaviour of structures during earthquakes

10

Q.6 Describe the working of an escalator giving sketches

10

Q.7 What is disaster management and describe its strategies.

10

Total No. of Printed Pages:1

SUBJECT CODE NO: E-708
FACULTY OF ENGINEERING AND TECHNOLOGY
Fifth Year Arch Examination Nov/Dec 2017

B.E.
(OLD)

[Time:2 Hours]

[Max.Marks:50]

- N.B
- Please check whether you have got the right question paper.
- i. Answer any two question from Sec 'A' and any two question from Sec 'B'.
 - ii. Q.1 and Q.4 are compulsory.
 - iii. Assume suitable data wherever necessary and mention it clearly.
 - iv. Figures to the right indicate full marks.

Section A

- Q.1 Write a note on International trading. 15
- Q.2 Define the terms: 10
- 1) Corporate sectors
 - 2) Law cost housing
- Q.3 'Architect's Role is very important in Building Economics' explain. 10

Section B

- Q.4 Explain the concepts of building economics in detail. 15
- Q.5 Write short note on- 10
- 1) Semi government organization.
 - 2) Influence of geographical factor on economy.
- Q.6 Describe Architect and client relationship in any project. 10

2017

Total No. of Printed Pages:2

SUBJECT CODE NO:- E-713
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P.P.-II
(Revised)

[Time: Three Hours]

[Max.Marks:100]

Please check whether you have got the right question paper.

- N.B
- i) Q. No. 1 and Q.No.5 are compulsory. Out of the remaining six, solve any FOUR.
 - ii) Assume suitable data wherever necessary and mention it clearly.
 - iii) Figure to the right indicate full marks.
- Q.1
- a) Explain cost, price and value. 05
 - b) A financial Institution needs the valuation of a properly situated off Beed By. Pass Rd., Aurangabad. The plot has a return frontage and admeasures 450. 00 m². A bungalow is constructed on the said plot with R.C.C first class construction. The following data is available. 20
 - i) Area of plot ----- 450.00 m²
 - ii) Area of Bungalow
 - a) Ground floor 142.00 m²
 - b) First floor 90.00m²
 - iii) Year of construction 1982
 - iv) Life of building 60 years
 - v) Replacement value
 - a) Gr. Floor Rs.25,000/m²
 - b) 1st floor Rs.22,000/m²
 - vi) Market value of land
Varies from Rs.12,000/m² to Rs.15,000/m²
 - vii) Salvage value 10%(Ten percent)
- Q.2 What is sinking fund? How can an owner regain the capital invested in the construction of the building after certain number of years? 12 $\frac{1}{2}$

2017

- Q.3 What are the powers and duties of Arbitrators? 12 $\frac{1}{2}$
- Q.4 What are tenures? Enumerate the restrictions in case of Leasehold lands. 12 $\frac{1}{2}$
- Q.5 Write short notes on any five. 25
- Capital Repairs
 - Assessed Value
 - Potential Value
 - Head Rent
 - Easement
 - Municipal taxes.
- Q.6 Explain the procedure for acquisition of land & describe any four. 12 $\frac{1}{2}$
- Q.7 What is the period of first letting in standard Rent? 12 $\frac{1}{2}$
- Q.8 What is an Easement? Give illustrations of enjoyment of Easement. 12 $\frac{1}{2}$