



R18 Regulation

Subject code: 2P7AA

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

B.TechVII Semester Supplementary Examinations, July 2022

ESTIMATION & COSTING
(Civil Engineering)

Maximum Marks: 70

Date:02.07.2022 Duration: 3 hours

- Note: 1. This question paper contains two parts A and B.
2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 What is a detailed estimate?
- 2 Describe long wall and short wall method.
- 3 What is analysis of rates?
- 4 Discuss Measurement Book.
- 5 Write out the specification for second class Brickwork
- 6 Select any two principles for the preparation of residential building?
- 7 Definition of report.
- 8 What are the principles of report preparation?
- 9 Define valuation?
- 10 Describe Net income

Part-B

Answer All the following questions.

(10MX 5=50Marks)

- 11 A. Describe the different types of estimate (5M)
B. Explain the methods used to find approximate cost of the building (5M)
OR
- 12 Prepare a report on estimate for the following items in Single storey Residential building
i) Sub structure (5M)
ii) Super Structure (5M)
- 13 Explain in detail about schedule of rates (10M)
OR
- 14 A) Explain in detail the factors affecting schedule of rates (5M)
B) Prepare analysis of rate for a RCC (1:2:4) beam of 60 cm x 30 cm for a span of 8 m. Assume 4.5 m as the height of room. (5M)

15 Calculate a detailed estimate for the following works in Fig-1

(10M)

- i. Earthwork for excavation
- ii. Lime concrete for foundation

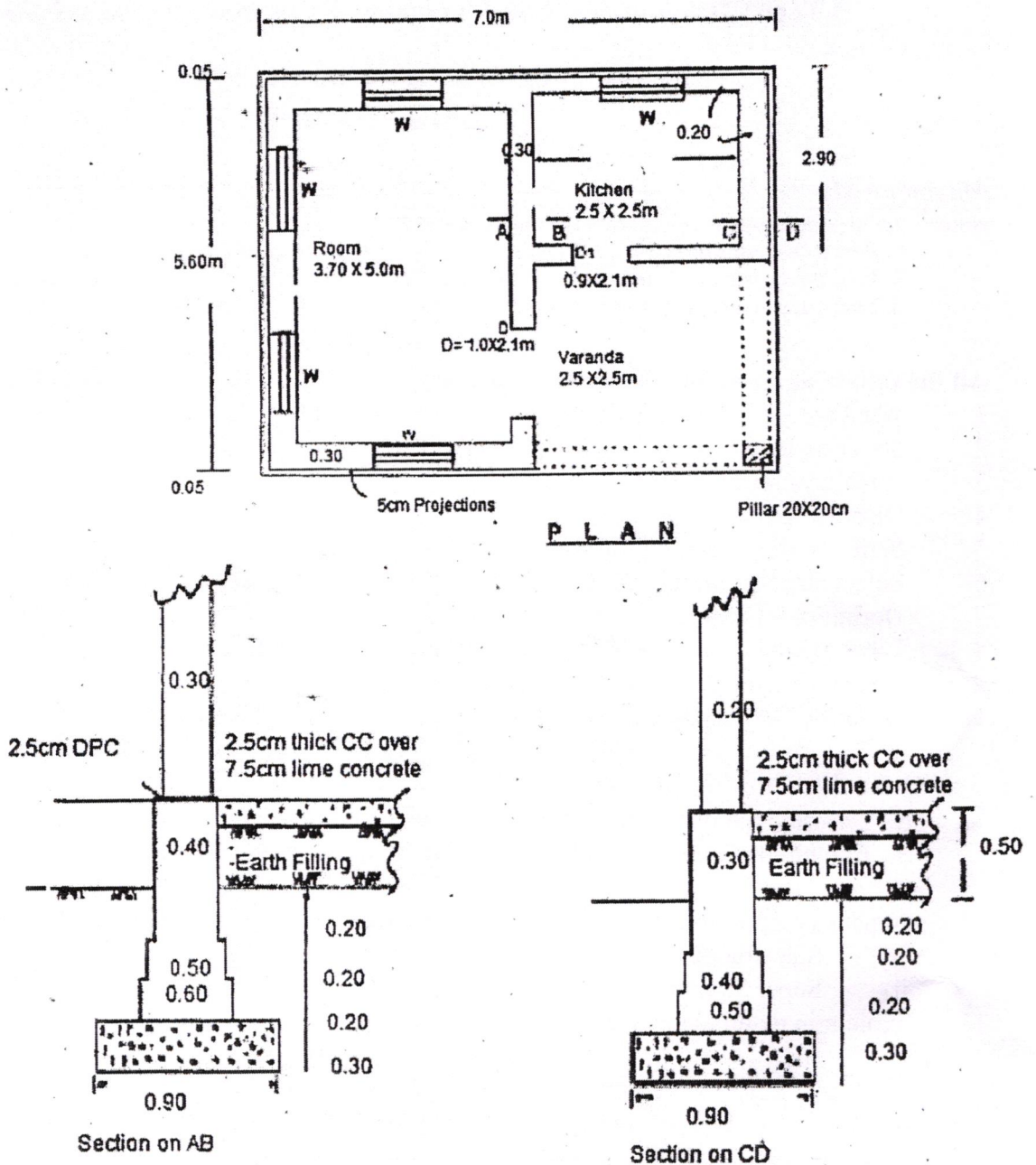


Fig.1

OR

- 16 Prepare a detail estimate for bituminous road by assuming a suitable example. (10M)
 - 17 Prepare a Bar Bending schedule for a RCC Beam with a suitable example (10M)
- OR
- 18 Show the general details in Muster roll. and rules for preparation of Muster roll. (10M)

19 Discuss the following terms : (10M)
(i) Methods of Depreciation
(ii) Carpet Area
(iii) Plinth Area

OR

20 Write Short note on the following terms: (10M)
(i) Sinking fund
(ii) Outgoings
(iii) Capitalized value
(iv) Price and Cost