S.No. : 320 AR 605

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Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 00133 Roll No.

B. Arch. Examination 2021-22

(Even Semester)

SPECIFICATIONS AND ESTIMATION

Time : Three Hours] *[Maximum Marks : 50*

Note :– (i) Attempt any five questions.

(ii) Assume any missing data.

(iii) Use of calculator is allowed.

(iv) All questions carry equal marks.

(v) DSR and CPWD specifications and schedule of rate analysis is allowed.

1. Estimate quantities of any two of the following items of works in the building as per given plan and data (Attached seperately).

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Schedule :

All dimensions in c. m.

All walls 20 cm thick.

Doors D = 120 × 210

Window W = 110 × 150

Door and window wooden frame = 12 × 6

Foundation same for all walls.

(1) Line concrete in foundation.

(2) RCC work in lintel band and roof.

(3) Salt - wood in door and window frames.

(4) Plastering outside the building including plinth height.

Data :

(1) Floor to ceiling height – 350 cm

(2) Width of foundations – 80 cm

(3) Line concrete thickness – 30 cm

(4) RCC roof slab thickness – 12 cm

(5) RCC band at lintel level – 15 cm

(6) Lintel height – 210 cm

(7) Plinth height – 60 cm

2. Mention the various methods of preparing approximate estimate of a building. Explain any one method in detail.

3. Write detailed specification of any two of the following :

   (a) Brick work in foundation

   (b) Reinforced cement concrete (RCC)

   (c) First class brick

   (d) DPC

4. Define analysis of rate. Explain the purpose of rate analysis. Mention the factors affecting the rate analysis.

5. Answer any two of the following :

   (a) Explain contract bond and labour contract.

   (b) Explain floor area and circulation of building.

   (c) Write detailed specification on superstructure in cement mortar.

6. Define any four of the following :

   (a) Plinth area estimate

(b) Tender notice

(c) Supplementary estimate

(d) Plinth area of building

(b) Financial hand book

7. Write short notes on any four of the following :

(a) Schedule of rates

(b) Muster roll

(c) Departmental charges

(d) Running bill

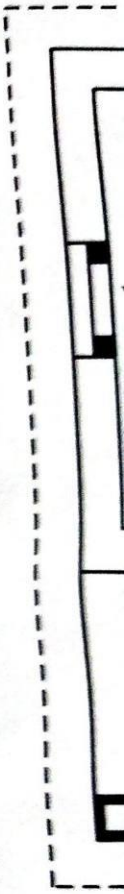
(e) Earnest money

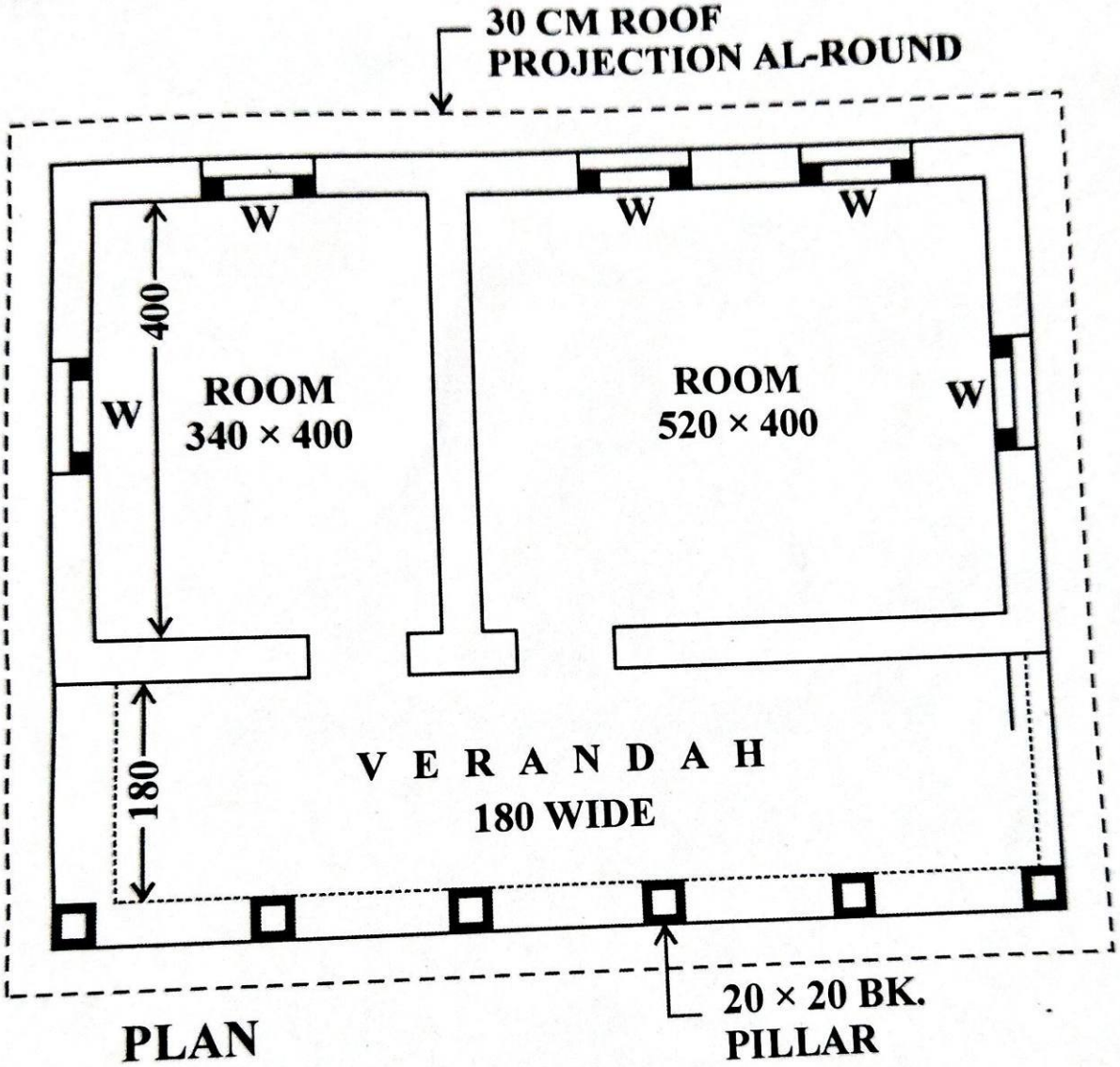
8. Attempt any two parts of the following :

(a) What are the principles of writing detailed specifications?

(b) Differentiate carpet area and plinth area.

(c) Write detailed specification on flooring.




30 CM ROOF
PROJECTION AL-ROUND
W
W
W
400
W
ROOM
340 × 400
ROOM
520 × 400
W
180
V E R A N D A H
180 WIDE
20 × 20 BK.
PILLAR

PLAN

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