_						
USN						1



09ARC66

Sixth Semester B.Arch. Degree Examination, July/August 2021

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any ONE from 1 to 2 and any FOUR from Q.No. 3 to 9.

2. Follow written dimensions only.

3. Missing data if any may be suitably assumed.

- Fig.Q.1 shows the details of a small residential unit. Prepare a detailed estimate for below mentioned items of work by "Centre-Line Method".
 - a. Centre-line calculation details.

(10 Marks)

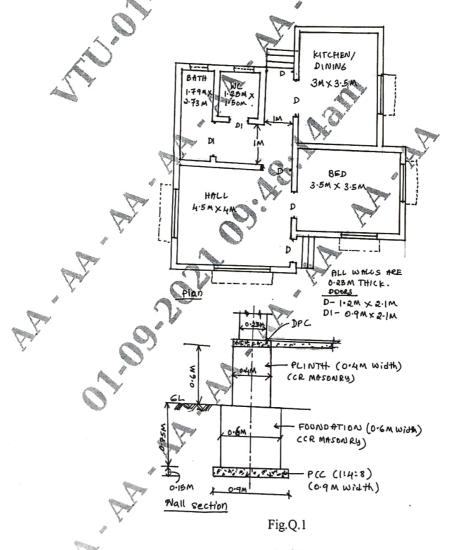
b. Earth work in excavation for foundation @ Rs.200 per cu M.

(10 Marks)

c. PCC Bed for foundation (1:4:8) @ Rs.3250 per Cu M.

(10 Marks)

d. Coursed Rubble Masonry in CM (1:6) for foundation and Plinth @ Rs.3600 per Cu M. (10 Marks)



The details of the residential buildings are shown in Fig.Q.2. Workout the quantities for the following items of work using centerline method.

	following items of work using centerline method.	
a.	Earthwork in excavation	(07 Marks)
b.	PCC Bed 1:4:8 for Foundation Bed	(07 Marks)
c.	Size stone masonry in footing and plinth	(07 Marks)
đ.	First class brickwork with cement mortar 1:6 in super structure.	(07 Marks)
e.	DPC	(07 Marks)
f.	Calculate total centerline length	(05 Marks)

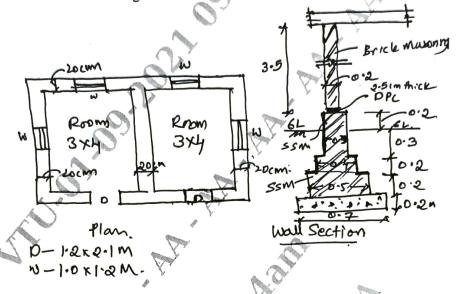


Fig.O.2

3	Exp	la	in	bı	ie	fly	:	4	
	_	•		•		~	.1	4	- C -

a. Explain briefly the types of estimate. (10 Marks)

b. Annual repair maintenance, annual maintenance AB and AM. (05 Marks)

4 Write short notes on:

a. Schedule of Rates. (05 Marks)

b. Work-charged establishment. (05 Marks)

c. Contingencies. (05 Marks)

5 Write short notes on (any 3)

a. Measurement Book

b. Lumpsum contract

c. Bill of quantities

d. Cube rate estimate (15 Marks)

Calculate the quantity of earth work for 400mt length for a portion of road in a uniform ground the height of bank at two ends begin 7 and 1.4. The formation width is 7.0mt and side slope 2: 1 (horizontal to vertical). Assume that there is no transverse slope. Calculate the quantity using method – I.

(15 Marks)

- Fig.Q.7 shows the details of sump. Prepare the estimate for the following items of work.
 - a. Earthwork in excavation @ 350/m³

(05 Marks

b. PCC 1:3:6 for Bed concrete @ 4500/m³

(05 Marks)

c. BBM in CM 1:4 for walls @ 5000/m³

(05 Marks)

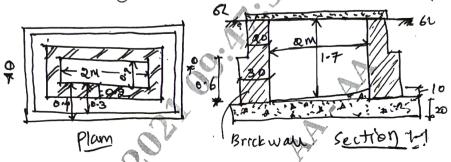


Fig.Q.7

- What is specification? List out different types of specifications. Write general specification for Class-I type buildings. (15 Marks)
- 9 Fig.Q.9 shows the details of septic tank calculate the quantities for:
 - a. Earthwork in excavation.

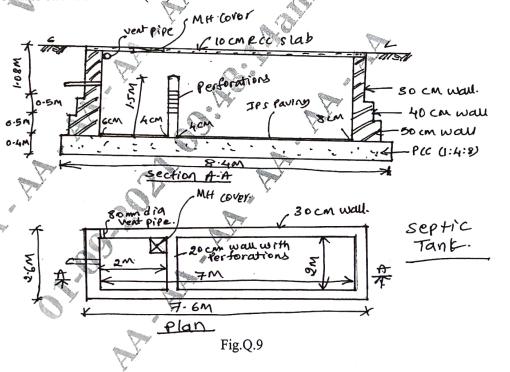
(05 Marks)

b. PCC Bed in 1:4:8.

(05 Marks)

c. First class brickwork in CM (1:6).

(05 Marks)



3 of 3