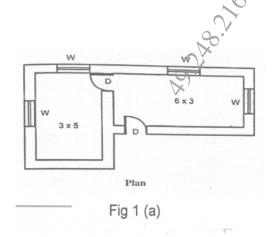
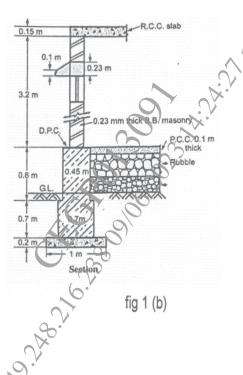
Total No. of Questions : 8]	SEAT No. :
P1418	[Total No. of Pages : 4
	[6004] 467
]	B.E. (Civil)
QUANTITY SURVEYIN	NG CONTRACTS AND TENDERS
(2019 Pattern) (Semester - VIII) (401012)

Time: 2½ Hours] [Max. Marks: 70 Instructions to the candidates:

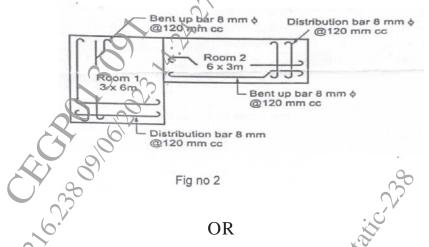
- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Use of electronic pocket calculator is allowed.
- 5) Assume suitable data, if necessary.
- Q1) a) Fig 1 (a) and (b) shows plan and section of residential building, Determine the quantities of following item [8]
 - i) Excavation in foundation
 - ii) UCR masonry in CM (1:6) in foundation
 - iii) Damp proof course



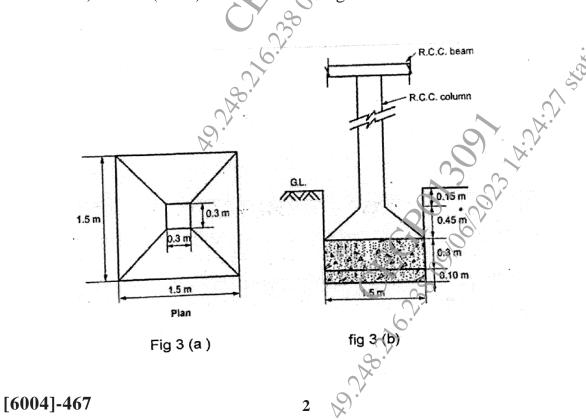


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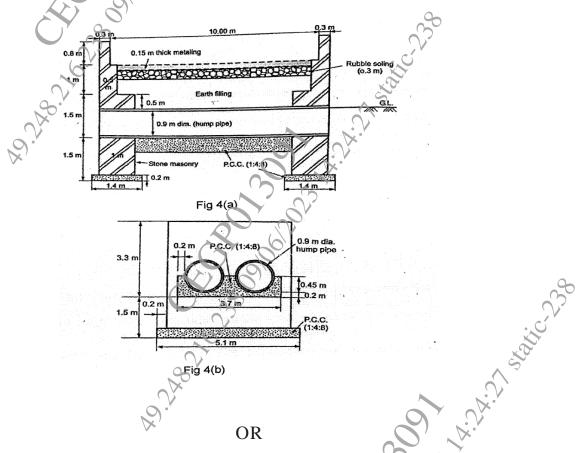
b) Determine quantity to steel reinforcement in slab for both room from fig no 2 in 8 mm ó bar provided @ 120mm c/c along short and long span with alternate bar bent up at support. Determine the quantity of reinforcement. [9]



- Q2) a) Explain in detail concept of long wall short wall and Centre line method with the help of example. [8]
 - b) The plan and elevation for the column footing for an R.C.C. framed structure is shown in Fig.3 (a) and (b). work out the quantities for the following item of works. [9]
 - i) Earth 1 work excavation for foundation
 - ii) C.C.(1:2:4) for column footing.



- Calculate for an embankment by mean area method, workout the quantities **Q3**) a) of earthwork for an embankment 100 m long and 10 m wide at a top. Side slope is 2:1 and depth of each 20 m and are 0.6, 1.2, 1.4, 1.6, 1.5 m.
 - Prepare an estimate of a pipe culvert for following item as shown in b) Fig. 4 (a) and Fig. 4(b) [9]
 - Excavation i)
 - Earth filling ii)
 - Rubble solin iii)
 - (1:4%) for foundation and below pipes iv)



- Calculate the quantities of earthwork for 200 m length for a portion of **Q4**) a) road in an uniform ground, the height of banks at two ends being 1.0m and 1.60m. The formation width is 10 m and side slope 2:1 (H:V). Assume that there is no transverse slope. [9]
 - Explain different methods to workout quantity of earthwork for b) Road, canal, Railway embankment, dam. [8]

