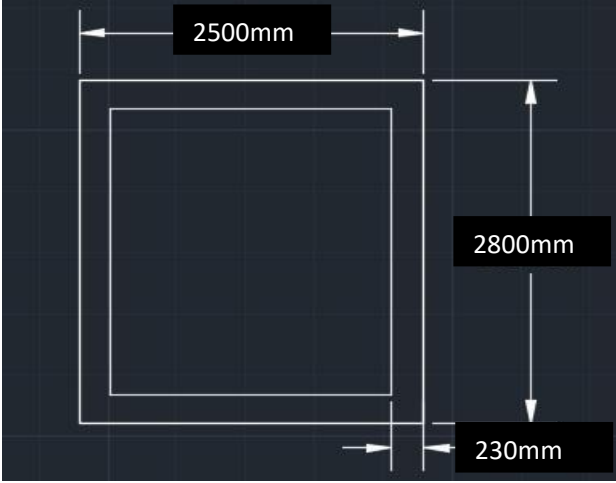
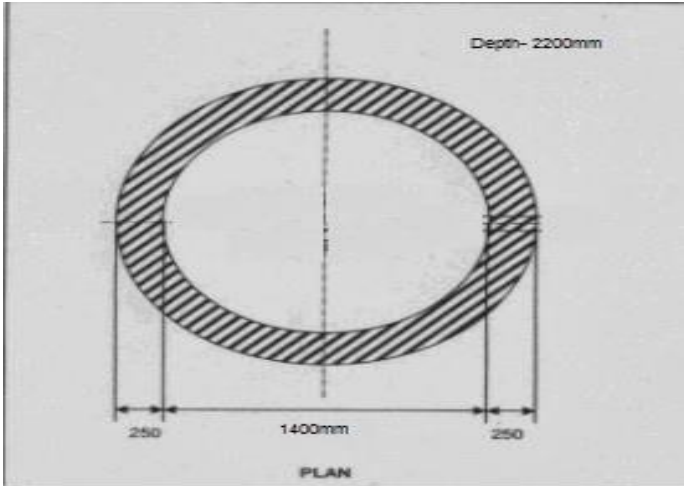


CON/N3601: Mark layout for foundation, walls, soak pit/septic tank and monitor earthwork activities for rural construction

Infrastructure and tools required:1.) Infra - Store room, Class room for 30 candidates, Practical yard(30 meter x 30 meter),
 & materials: - Measuring tape, trowels, Line dori, Spade, Lime powder for marking, Plumb bob, Try square, Spirit/Water level, Steel/wooden scale, Marking pegs,
 Basket for tools. 2.) Tools

Group of two candidates needs to perform this task. Either one of the task is to be lead by one candidate and second by the other candidate.

Sl no	Practical assessment question	Marks	Duration (Min)
1	Mark layout of a room as shown in the fig-1, Select appropriate tools ,check the right angle using 3-4-5 method and mark width of excavation.	29	45 min
2	Mark a layout of the soak pit as shown in fig-2.	20	
	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>FIG.- 1</p> </div> <div style="text-align: center;">  <p>FIG.- 2</p> </div> </div>		
Total Marks		49	

Note- Questions to be distributed to the candidates.

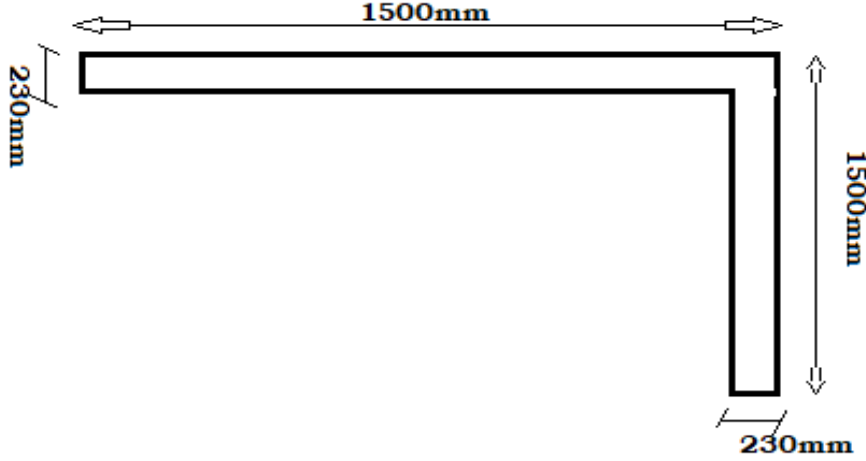
CON/N3602

Build brick / block masonry structures for rural construction

Infrastructure and tools required: 1.) Infra - Store room, Class room for 30 candidates, Practical yard(30 meter x 30 meter), 2.) Tools & materials: - Measuring Tape, trowels, floats, brushes, screed, straightedge, mortar boards, plumb bob, spade, mason square, volume box, line dori, spirit/water level, mason hammer, mortar pan, bucket, bricks/blocks, cement, fine sand, water.

Task to be performed by group of two candidate.

Task: Construct a L-shaped wall as shown in figure below in English bond with 4 courses with recessed pointing on outer side of wall .
Mortar Ratio- 1:6 , Mortar thickness- 10mm, Pointing- 5mm deep.

Sl no	Practical assessment question	Marks	Duration (Min)
	 <p>The diagram shows an L-shaped wall. The horizontal section has a length of 1500mm, and the vertical section has a height of 1500mm. The wall thickness is 230mm. The dimensions are indicated with arrows and labels: 1500mm for the horizontal length, 1500mm for the vertical height, and 230mm for the wall thickness on both the horizontal and vertical sections.</p>	49	45min
Total Marks		49	

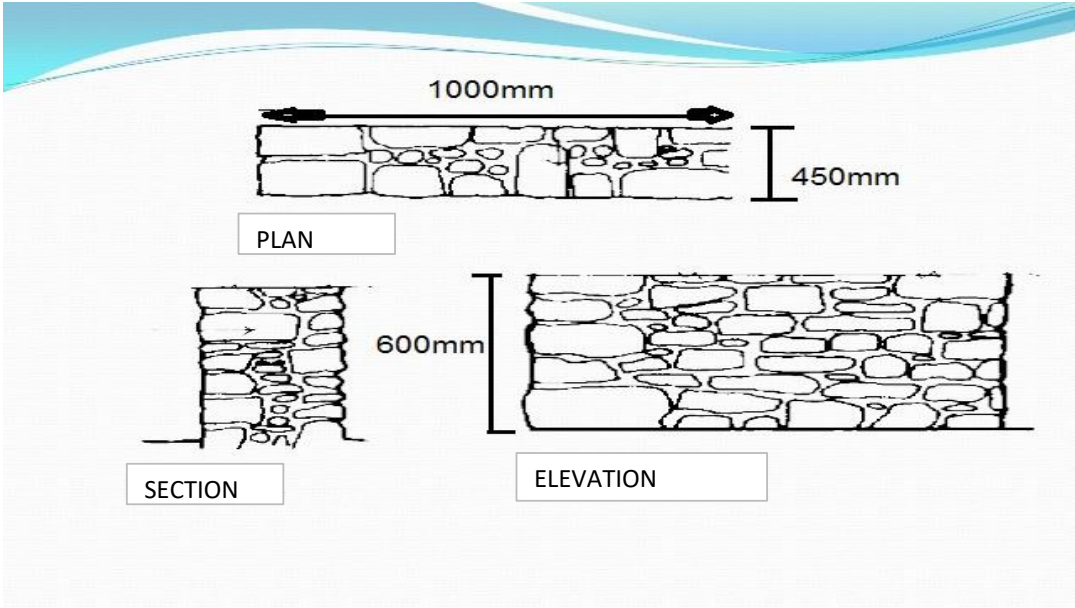
Note- Questions to be distributed to the candidates.

CON/N0113: Build structures using random rubble masonry

Infrastructure and tools required: 1.) Infra - Store room, Class room for 30 candidates, Practical yard(30 meter x 30 meter), 2.) Tools & materials: - Measuring tape, trowels, hammer, stone chisel, spade, mortar pan, pointer trowel, jointers, plumb bob, line dori, try square, spirit/water level, mortar mixing plat, straightedge, Dry stone, sand, aggregate, cement, water.

Task to be performed by group of two candidate.

Task: Construct a Random Rubble Masonry wall as given in drawing having dimensions 1000mm X 450mm X 600mm with flushed pointing on either side of wall. Mortar Ratio- 1:6 , Mortar thickness- 10mm

Sl no	Practical assessment question	Marks	Duration (Min)
	 <p>The drawing consists of three views of a masonry wall: <ul style="list-style-type: none"> PLAN: Shows a top-down view of a rectangular wall section with a length of 1000mm and a thickness of 450mm. The masonry is shown in a random rubble pattern. SECTION: Shows a vertical cross-section of the wall, indicating a height of 600mm. It shows the internal structure of the masonry and the mortar joints. ELEVATION: Shows a side view of the wall, illustrating the random rubble masonry pattern and the flushed pointing on the surface. </p> <p>*All dimensions are in mm.</p>	49	45min

Total Marks

49

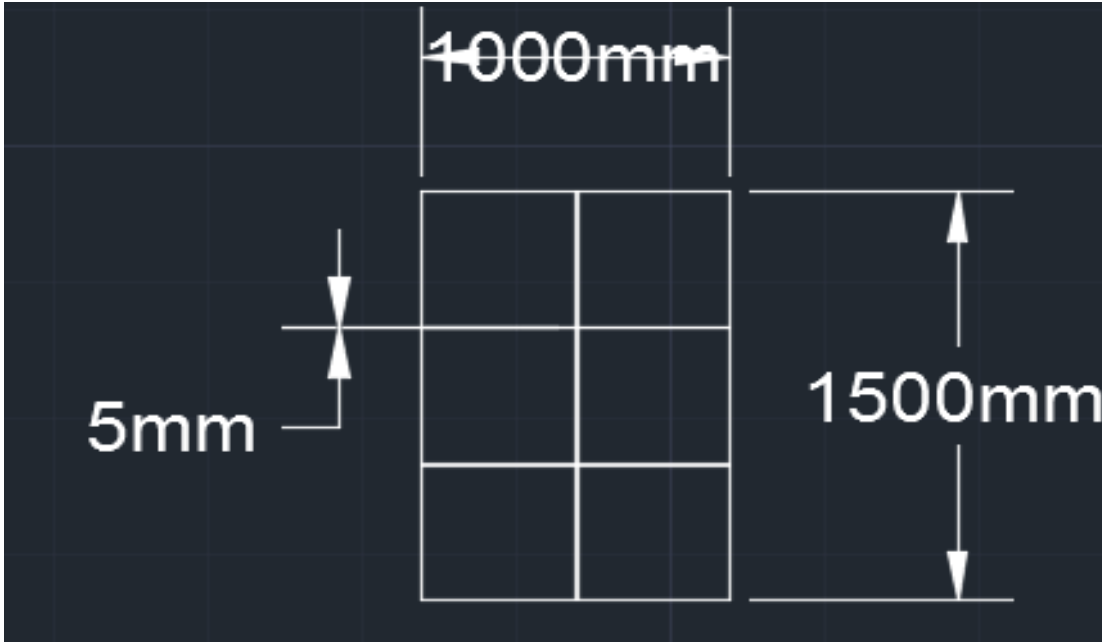
Note- Questions to be distributed to the candidates.

CON/N3604: Carry out IPS flooring in rural construction

Infrastructure and tools required: 1.) Infra - Store room, Class room for 30 candidates, Practical yard(30 meter x 30 meter), brick soling 2.)
Tools & materials - Measuring tape, trowels, floats, brushes, screed, straight edge, concrete mixer, mortar boards, Spade, mason square, volume box, line dori, Spirit/water level, Tamping rod, vibrator, mortar pan, bucket, Cement, Sand (fine and coarse), aggregate, water.

Task to be performed by group of two candidate.

Task: Carry out IPS flooring of size 1000mmX1500mmX100mm with 5mm groove & slop 1:50 as shown in given drawing. This task is to be performed on brick soling. Use nominal mix concrete- 1:2:4

Sl no	Practical assessment question	Marks	Duration (Min)
	 <p>The diagram shows a 1000mm x 1500mm grid of IPS flooring. The grid is divided into four quadrants by a horizontal and a vertical line. A vertical dimension line on the left indicates a height of 1000mm. A horizontal dimension line at the bottom indicates a width of 1500mm. A vertical dimension line on the right indicates a height of 1500mm. A horizontal dimension line on the left indicates a width of 5mm, with a double-headed arrow pointing to the gap between the vertical lines, representing the groove width. The grid is drawn on a dark background.</p>	49	30min
Total Marks		49	

Note- Questions to be distributed to the candidates.

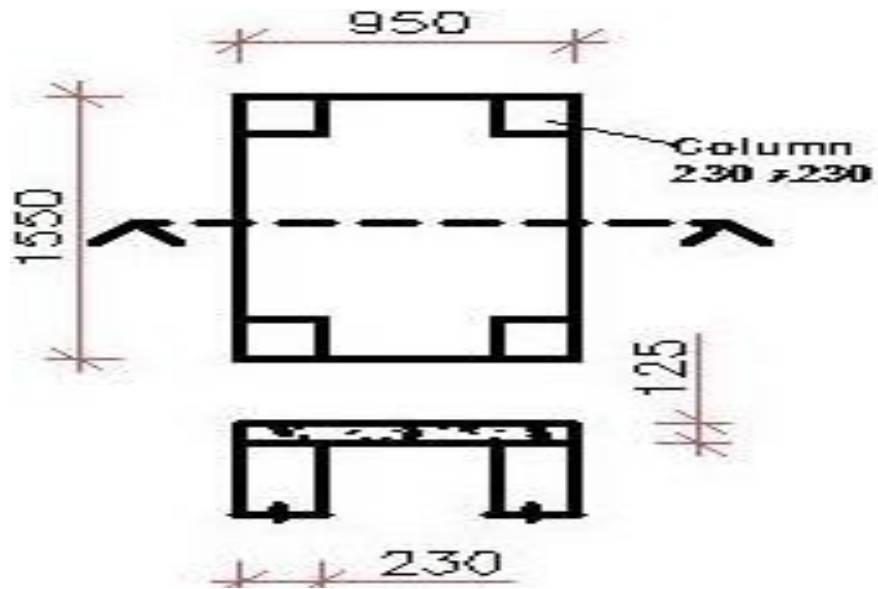
CON/N3606: Carry out shuttering works for RCC structures in rural construction

Infrastructure and tools required: 1.) Infra - Store room, Class room for 30 candidates, Practical yard(30 meter x 30 meter), 2.) Tools & materials - Measuring tape, hand saw, chisel, jack hammer, nailing hammer, hand drill, water/spirit level, marking chalk/pencil, nails, timber, plywood, wooden battens, pan, line dori, plumb bob.

Task to be performed by group of two candidate.

Task- Carry out plywood shuttering work for slab as given in drawing within permissible tolerance.

NOTE- carryout installation on the levelled ground.

Sl no	Practical assessment question	Marks	Remarks
1	 <p>*All dimensions are in mm.</p>	49	60min
Total Marks		49	

Note- Questions to be distributed to the candidates.

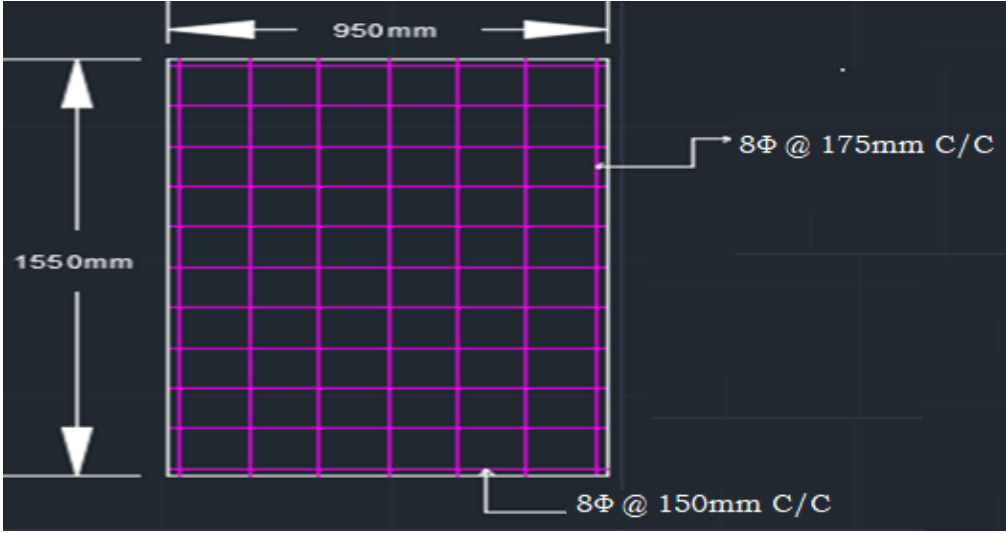
CON/N3605: Carry out Reinforcement steel works for R.C.C. structures in rural construction

Infrastructure and tools required: 1.) Infra - Store room, Class room for 30 candidates, Practical yard (30 meter x 30 meter), 2.) Tools & materials - Measuring tape, rail piece, pointed chisel, sledge hammer, bending lever, Pin plate, working bench, binding hook, cutting blade, TMT/TOR rebar, binding wires, mechanical coupler, cover blocks.

Task to be performed by group of two candidate.

Task: Carry out reinforcement work for slab as per given drawing (125mm thk.) on top of prepared shuttering in the previous task

Detail- Cover- 20mm top & bottom and 25mm sides
 8 ϕ 150mm C/C Transverse R/F- 8 ϕ 175mm C/C Horizontal R/F-

Sl no	Practical assessment question	Marks	Duration (Min)
		49	45min
Total Marks		49	

Note- This task should be performed in continuation with shuttering task.

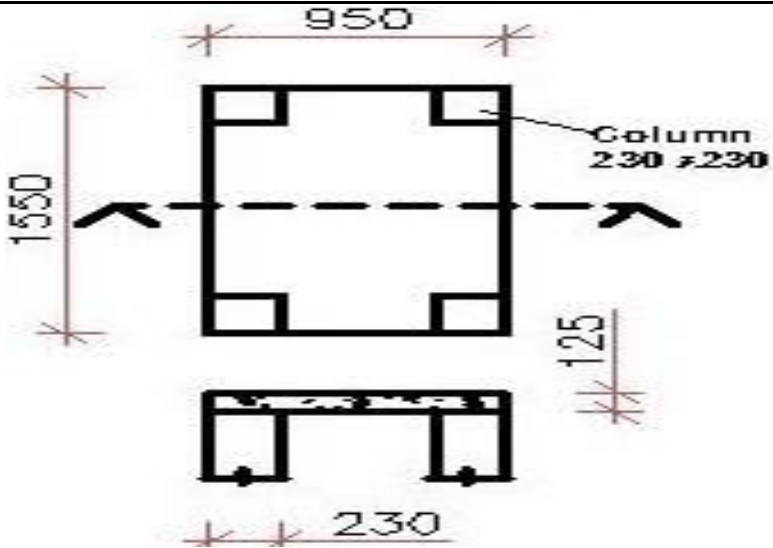
Note- Questions to be distributed to the candidates.

CON/N3607: Carry out manual concreting in rural construction.

Infrastructure and tools required: 1.) Infra - Store room, Class room for 30 candidates, Practical yard(30 meter x 30 meter), 2.) Tools & materials - Measuring tape, trowels, floats, brushes, screed, straight edge, concrete mixer, mortar boards, Spade, mason square, volume box, line dori, Spirit/water level, plumb bob, Tamping rod, vibrator, mortar pan, bucket, Cement, Sand (fine and coarse), aggregate, water.

Task to be performed by group of two candidate.

Task- Carry out manual concreting work on slab that was prepared in previous tasks with broom finish by providing appropriate cover to reinforcements and keeping the top level within tolerance limit.
nominal mix-1:1.5:3, W/C Ratio- 0.5

Sl no	Practical assessment question	Marks	Remarks
	 <p>*All dimensions are in mm.</p>	49	30min
Total Marks		49	

Note- This task should be performed in continuation with shuttering and reinforcement task.

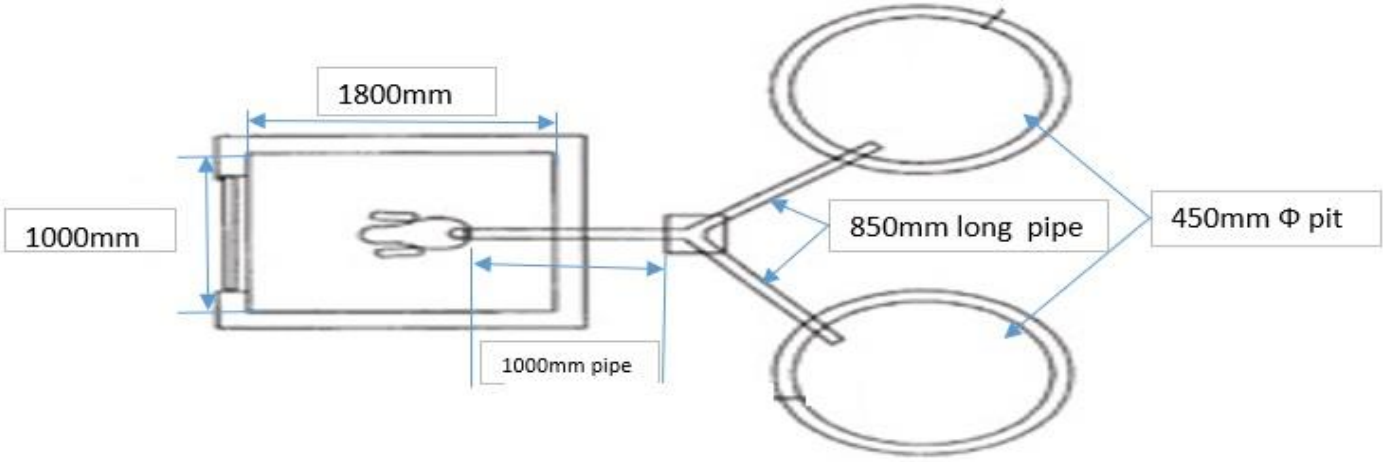
Note- Questions to be distributed to the candidates.

CON/N3608: Install sanitary fitting and fixtures in rural toilets

Infrastructure and tools required: 1.) Infra - Store room, Class room for 30 candidates, Practical yard(30 meter x 30 meter), 2.) Tools & materials - Wrenches, Plier, screwdriver, pipe cutter, pipe bender, threading tool, Hacksaw, metal file, caulking tools, CPVC/ PVC pipes, taps, valves, clamps, elbows, toilets pans, p- traps.

Task to be performed by group of two candidate.

Task- Carryout sanitary fittings and fixtures and their connection to soak pit as per given drawing, maintain the slop for water disposal and ensure the workability of sanitary fittings before the installation.

Sl no	Practical assessment question	Marks	Remarks
		49	60min
Total Marks		49	

Note- Questions to be distributed to the candidates.