

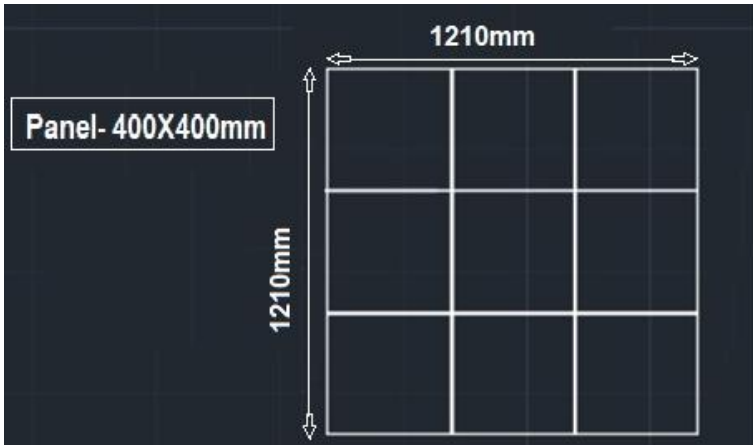
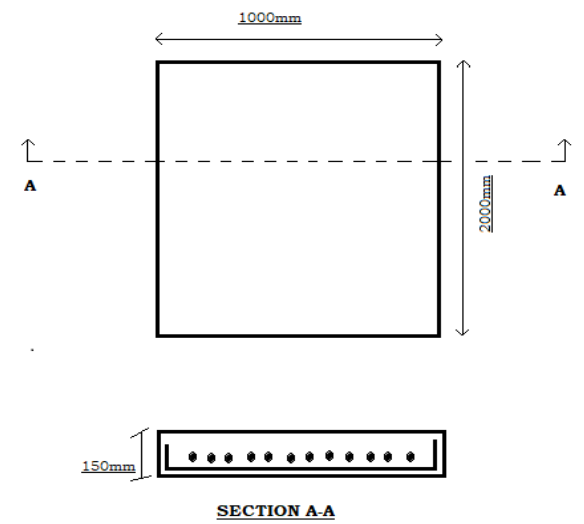
MASON CONCRETE LEVEL-3 SET-1

TIME- 6 HOURS

CON/N0114: Carry out IPS and Tremix flooring works.

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, glass strips, Tamping rod, vibrator, plate vibrator, mortar pan, bucket, Cement, Sand (fine and coarse), aggregate, water, floor hardener, Channel sections, reinforcement mesh for VDF.

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	Carry out IPS flooring (100mm thk) as shown in fig-1 by fixing glass strips between panel, slope 1:75 and using nominal concrete mix 1:2:4 on brick soling.	40	150 min
2	Carry out vacume dewatered flooring (150mm thk.) as shown in fig-2 with broom finish and providing cover of 25mm on all sides. Use nominal Mix- 1:1.5:3. Task to be done on flat ground surface	40	
 <p>FIG.- 1</p>		 <p>FIG.- 2</p>	
Total Marks		80	

Note- Questions to be distributed to the candidates.

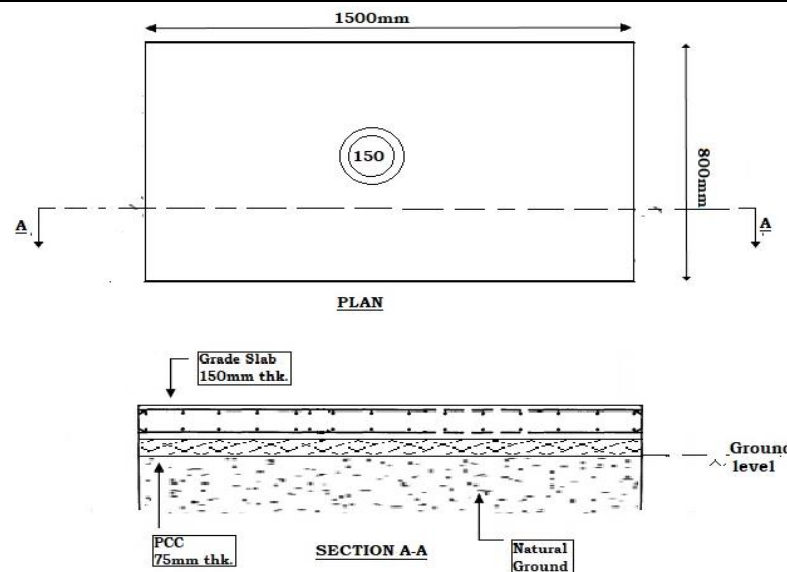
CON/N0117: Place, level and finish concrete in various structural elements including repair works

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, Tamping rod, vibrator, mortar pan, bucket, Cement, Sand (fine and coarse), aggregate, water, plywood, batten, reinforcement mesh for grade slab.

Task to be performed by group of two candidate.

Task-1: Carryout PCC of grade slab as shown in fig. using Nominal mix 1:3:6, ensuring the quality of concrete mix, thickness & level of PCC within allowable tolerance (60min)

Task-2: Carryout concreting of grade slab as shown in fig. using Nominal mix 1:1.5:3, ensuring the quality of concrete mix, thickness and level of slab within tolerance limits.(60min)

Sl no	Practical assessment question	Marks	Duration (Min)
	 <p>The diagram consists of two parts: a plan view and a section view. The plan view shows a rectangular slab with a width of 1500mm and a height of 800mm. A circular reinforcement mark with the number '150' inside is centered on the slab. A dashed line labeled 'A-A' indicates the location of the section. The section view, labeled 'SECTION A-A', shows a cross-section of the slab. It consists of a top layer labeled 'Grade Slab 150mm thk.', a middle layer labeled 'PCC 75mm thk.', and a bottom layer labeled 'Natural Ground'. A dashed line indicates the 'Ground level'.</p>	80	150 min
Total Marks		80	

Note- Questions to be distributed to the candidates.

Note- Task to be performed on levelled ground.

CON/N8001: Work effectively in a team to deliver desired results at the workplace**Infrastructure-** Observation on basis of core task as mentioned below**Task-** Based on performance of IPS flooring, Tremix flooring, PCC and RCC of grade slab

Sl no	Practical assessment question	Marks
1	Observe the cooperation of team member in terms of willingness to share the task responsibility during any one of following core task. PCC 2. In carrying out IPS flooring 3. In carrying out tremix 1. Laying	10
2	Check how the candidate report the deviation from the planned task to its seniors. (provide some different material from described in the task)	15
3	The effectiveness of communication to be checked. By observing the candidates' approach to replace the defective material/tools(provide some defective tool/material)	15
4	Check the alertness/attentiveness of candidate for instructions given by assessor.	10
5	Check for handling of tools and materials during all the tasks- PCC & RCC work of grade slab, IPS flooring and tremix.	15
6	Check for communication between the candidate and subordinate during assigned task.	15
Total Marks		80

Note- Questions not to be distributed to the candidates.

CON/N8002: Plan and organize work to meet expected outcomes**Infrastructure-** Based on task performance of NOS CON/N0114 & CON/N0117.**Task-** Based on performance of IPS flooring, Tremix flooring, PCC and RCC of grade slab

Sl no	Practical assessment question	Marks	Remarks
1	Observe the adherence to the targets and timelines set by assessors during the given core task: Concreting of grade slab, IPS flooring.	15	
2	Observe the candidate during planning of activities as per schedule and sequence while performing task of Tremix flooring and PCC for grade slab.	15	
3	Observe the candidate effectiveness of the communication with subordinates/ team members during the task of tremix flooring and concreting of grade slab.	10	
4	Observe how a candidate arrange required resources for completion of task within the allocated timelines for Concreting of grade slab and IPS flooring.	15	
5	Observe how a candidate utilize required resources optimally while performing trimix flooring.	10	
5	Observe how candidate adhere to the standard procedures and instruction while performing IPS flooring.	15	
Total Marks		80	

Note- Questions not to be distributed to the candidates.

CON/N9001: Work according to personal health, safety and environment protocol at construction site

Infrastructure- All PPEs such as (helmets, safety harness, insulated glove, reflective jackets, safety shoes, gum boot, goggle, Nose and face mask, earplug,) Fire Extinguisher, safety message boards, fire extinguishers and sand buckets

Mock up for hazardous condition to be created for assessment purpose

Sl no	Practical assessment question	Marks	Remarks
1	Observe how candidate identify hazards, risk at sight and report it to seniors. (mock situation can be created e.g. Loose material in walkway, cut in wire of power tool etc.	10	
2	Observe how candidate respond to emergency situation by creating mock exercise for fire alarm, fire safety drill.	25	
3	Identification and demonstration of fire extinguishers provided by the assessor.	10	
4	Observe attitude towards safety while handling the tools and equipment during core tasks- PCC and RCC work, Tremix, IPS flooring	15	
5	Observe the adherence of safe working practices while working at height and towards maintaining and upkeeping of the work place.	10	
6	Identify & demonstrate wearing the following PPE 1. Safety harness 4. Ear Plug 2. Helmet 5. Insulated gloves 3. Reflective jacket 6. Nose mask	10	
Total Marks		80	

Note- Questions not to be distributed to the candidates.