

## Ministry of Education Chumey Higher Secondary School Chummig: Bumthang Academic Year 2022



## ANNUAL EXAMINATION

Subject: Masonry	7				Writ	ing Time: I hou	ľ
Class: XI					Full	Mark: 50 marks	;
INDEX CODE:							
Invigilator's Initi	al:	 	 				

## READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- 1. Do not write for the first **fifteen minutes**. This time is to be spent reading the questions. After having read the questions, you will be given **one hour** to answer all of the questions.
- 2. Write your **INDEX CODE** properly on the answer sheet.
- 3. In this paper, there are two sections: **SECTION A** and **SECTION B**. Attempt **ALL** the questions.
- 4. **Read and re-read** carefully to understand the **instructions and questions** before answering them.
- 5. Writing neatly and clearly will always go well in your favour. If your writing cannot be read, marks can't be awarded.
- 6. The intended marks for each question or part of the questions are given in **brackets**.
- 7. Do not leave the examination hall before you have made sure that you have answered all the questions.

FOR TEACHER'S USE ONLY							
SECTION		A		В			
Question	1. a) (MCQ)	1. b) (T/F)	1. c) (Completion)	2. (SAQs)	3. (ERQs)		
Mark	10	5	2.5	13	19.5		
Mark Scored							
Initial							
Total Score					•		
Final Score							

	SECTION A [17.5 MARKS] ANSWER ALL QUESTION			
Que	estion 1			
a)				
i.	Which of the following component of the machine is used for holding the blade	?		
	A Handle			
	B Switch lock			
	C Adjusting nut			
	D Mounting nut			
ii.	Which view shows more features or characteristics of an object?			
	A Top views			
	B Rear views			
	C Back views			
	D Front views			
iii.	A 38 mm gap is maintained while constructing confined masonry			
	A for projection of brick/block/stone.			
	B between two successive layers of the wall.			
	C between the end of brick/block/stone to the stirrup.			
	D between the end of brick/block/stone to the vertical main bar.			
iv.	The seismic band is <b>NOT</b> suitable with			
	A stone.			
	B timber.			
	C bamboo.			
	D steel reinforcement.			
v.	The minimum duration of the curing period is			
	A 4 days.			
	B 5 days.			
	C 6 days.			
	D 7 days.			
vi.	Mortar joints are racked to a depth of			
	A 10 mm to 20 mm.			
	B 12 mm to 25 mm.			
	C 15 mm to 30 mm.			
	D 20 mm to 40 mm.			

vii.	Whi	ch of the following is <b>NOT</b> shown in the plan?	
	A	Foundation details	
	В	Location of rooms	
	C	Location of openings	
	D	Thickness of the external wall	
viii.		gap around the reinforcement bar is maintained to ensure the passage of concrete	
		ne foundation at	
	A	20 mm.	
	В	30 mm.	
	C	40 mm.	
	D	50 mm.	
ix.	Whe	en the stones are soaked in the water for 24 hours, they should not absorb water	
		e than	
	A	5%.	
	В	10%.	
	C	15%.	
	D	20%.	
х.	The	e concrete ratio of M20 used in the seismic band is	
	A	1:1:2.	
	В	1:1.5:3.	
	C	1:2:4.	
	D	1:3:6.	
<b>b</b> )	Wri	te TRUE or FALSE for the following statements in the space provided	[5]
		inst them.	[5]
	_		
	i.	1:2 is an example of an enlarged scale.	
	ii.	Sandstone is mainly composed of clay.	
	iii.	The image of the object is projected on the sides of the	
		box in the glass box method.	
	iv.	Struck pointing is maintained at an angle of 90°.	
	17.	States positing is maintained at an angle of 70.	
	v.	Water is used to remove the slurry while cutting stones.	
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c)	Fill in the blanks with an appropriate word(s).					
i.	In first angle projection, the object is imagined to be in the					
ii.	A type of construction drawing which provides a complete view of the structures					
	involved in the building project is					
iii.	A type of technical drawing that describes the locat	ion and details of electrical				
	wiring, fixtures, lighting, and power is	drawing.				
iv.	A type of technical drawing which shows the finish	ing details and appearance of the				
	building is drawing.					
v.	A type of drawing that gives a complete view of a b	ouilding that describes the location				
	of a building is drawing.					
	SECTION B (32.5 MA	,				
	ANSWER ALL QUESTION	ONS				
Que	estion 2					
i.	What is the function of carbon?		[1]			
ii.	Make a comparison between the confined masonry construction. Write <b>FOUR</b> differences.	and reinforced concrete framed	[4]			
	Confined masonry  Reinforced concrete framed construction					
iii.	ii. What are the <b>THREE</b> advantages of pointing over plastering?					

	Disc. 1 1 1		[3]			
1V.	iv. Differentiate between manual and mechanical dressing. State <b>THREE</b> each.					
	Manual dressing	Mechanical dressing				
v.	Provide <b>TWO</b> purposes of the seismic	band.	[2]			
Que	stion 3					
i.	Define confined masonry. Provide <b>TH</b>	REE purposes of the confined masonry.	[4]			
	<u> </u>					
ii.	List any <b>THREE</b> types of pointing		[1.5]			
iii.	What are the <b>FIVE</b> structural compone	ents provided in a confined masonry building?	[2.5]			

iv.	What is concrete? How it is mixed? Which is more effective?	[3]
••	Mantian EQUID good qualities of stone	[4]
v.	Mention <b>FOUR</b> good qualities of stone.	[4]
vi.	What is clear cover? Why is it provided? Give <b>TWO</b> points.	[3]
vii.	State <b>THREE</b> factors on which the stone is selected for stone masonry.	[1.5]