

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



TRIAL EXAMINATION

Subject: Masonry Class: X Writing Time: 1 hour Full Mark: 50 marks

INDEX CODE:					

Invigilator's Initial:

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	Α				В		
Question	1. a) (MCQ)	1. b) (T/F)	1. c) (Matching)	1. d) (Completion)	2. (SAQs)	3. (ERQs)	
Mark	10	5	5	10	10	10	
Mark Scored							
Initial							
Total		L					
Score							
Final							
Score							

SECTION A [30 MARKS] ANSWER ALL QUESTION

		ANSWER ALL QUESTION		
Que	stion	1		
a)	Direction: For multiple choice questions, there are four alternatives: A, B, C, and D. Choose the correct alternative and circle it. Do not circle more than[ONE alternative. If there is more than one circled, NO score will be awarded.[
i.		ewang is cleaning the floor, tools, and windows of his workshop. Which 5S is he cticing? Set Sort Shine Sustain		
ii.	Wh A B C D	ich of the following brick bond has a low load-bearing capacity? Header bond English bond Flemish bond Stretcher bond		
iii.	The A B C D	e line that runs parallel to any of the isometric axis is termed as isometric line. isometric plane. non-isometric line. non-isometric plane.		
iv.	The A B C D	e benefits of stabilized earth block (SEB) is appropriate identification of soil is required. easy to construct the long building. can be used again and again. presence of organic matter.		
v.	Wh A. B. C. D.	ich of the following brick bat is used in a header bond wall? $\frac{1}{2}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{4}{5}$		

vi.	Arra	anging and storing the items in the proper storage so that they can be seen, taken	
	out,	and returned to the optimal place is	
	А	set.	
	В	sort.	
	С	shine.	
	D	sustain.	
C shine. D sustain. vii. The bond which consists of headers and stretchers in every course of the wall is known as A header bond. B English bond. C Flemish bond. D stretcher bond. viii. Carrying out periodic monitoring and maintenance of the machine is A job safety. B personal safety. C workshop safety. D equipment safety. ix. The United Nations universal declaration of human rights is enshrined the right safety and health in A. 1956. B 1962. C. 1950. D. 1948.			
	knov	wn as	
	А	header bond.	
	В	English bond.	
	С	Flemish bond.	
	D	stretcher bond.	
viii.	Carr		
	А		
	В	personal safety.	
	С	workshop safety.	
	D	equipment safety.	
ix.	safe	ty and health in	
	В.	1962.	
	D.	1948.	
X.	The	use of personal protective equipment (PPE) in the workplace is	
	А	job safety.	
	В		
	C	workshop safety.	
	D	equipment safety.	
b)		te TRUE or FALSE for the following statements in the space provided inst them.	[5]
	i.	Topsoil and organic soils must be used for the construction.	
	ii.	Header bonds are suitable for load-bearing walls.	
	iii.	The solid area covers more than 50% in a hollow block.	
	iv.	There are three coordinate axes for isometric lines.	
	v.	Always lift the weight with a bent back.	

Match each item under column A with the most appropriate item in column B. Write the correct responses against their premises in the space provided.				
Column A		Column B		
i. A fire caused by	firewood.	a. 45°		
ii. Protects from in	haling dust.	b. Dust mask		
iii. A fire caused by	flammable gases.	c. C		
iv. Protects from ha	zardous chemicals.	d. 30°		
v. The angle at wh	ch the isometric blocks are drawn.	e. A		
		f. Gas mask		
Column A		Column B		
i. A fire caused by	firewood.			
ii. Protects from in	haling dust.			
iii. A fire caused by	flammable gases.			
iv. Protects from ha	zardous chemicals.			
v. The angle at wh	ch the isometric blocks are drawn.			
d) Fill in the blan	ks with an appropriate word(s).		[10	
i. The soil size bet	ween \emptyset 0.06 mm to 2 mm is termed	as		
	d with special chemicals used to spr	ray over the fire to stop it from		
ii. The test which r	neasures the relative amount of sand	l, silt and clay in the soil is		
. A wall constructed in an alternate course of headers and stretchers is called				
v. The three faces	on the cube of an isometric block are	e called		
	The first header placed at the edges of header courses in the English bond is known as			
vii. Header bond wa	ll has	capacity.		
viii. The process inv	blved to discard or recycle the items	at the workplace is		
x. The bond in wh	ch all the headers are laid on the fac	e of a wall is		
x. Queen closers as	e always placed next to	•••••		

	SECTION B (20 MARKS)	
	ANSWER ALL QUESTIONS	
Que	estion 2	
i.	State TWO applications of the Flemish bond wall.	[2]
		_
		-
ii.	Provide THREE applications where the English bond wall is used.	[3]
		_
		-
		-
iii.	What is the purpose of placing a queen closer in Flemish bond wall?	[1]
		-
iv.	Why would people prefer constructing the English bond wall? Give TWO reasons.	[2]
		_
		-
v.	Define safety precautions.	[1]
		_
		_
vi.	What is the similarity in the English bond wall and the Flemish bond wall?	[1]
		-

Que	estion 3	
i.	How a drop test is carried out? What will happen if the moisture content is less?	[2]
		-
ii.	Differentiate between solid concrete blocks and hollow concrete blocks.	[2]
	Solid concrete blocks Hollow concrete blocks	-
iii.	Explain the use of reinforcement bar while laying stabilized earth block wall.	[3]
		-
		-
		1
iv.	Reconstruct the given isometric block to the scale of 1:1. All the dimensions are in mm.	[3]