



CHUMEY HIGHER SECONDARY SCHOOL
BUMTHANG
ANNUAL EXAMINATION 2022



Class: IX
Subject: Plumbing

Total Marks: 50
Writing Time: 1hour
Total Marks: 50

Index Code

--	--	--	--	--	--	--	--	--

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- Do not** write for the first **fifteen minutes**. This time is to be spent on reading the questions. After having read the questions, you will be given **ONE** hour to answer all the questions.
- In this paper, there are two **SECTIONS: A and B**. Both Sections **A and B** are **COMPULSORY**.
- Writing neatly and clearly** will always go well in **your favor!** If your writing cannot be read – **marks can't be awarded**.
- Do not** remove or tear off any page from the booklet.
- Do not** leave the examination hall before you have made sure that you have answered all the questions.

For Teacher's use only

Question	Q1. a	Q1. b	Q1. c	Q1. d	Total	Signature
Marks	10	10	5	5	30	
Marks Scored						

Question	Q2 (a)	Q2 (b)	Q2 (c)	Q2 (d)	Q2 (e)	Q3 (a)	Q3 (b)	Q3 (c)	Q4 (a)	Q4 (b)	Q4 (c)	Q4 (d)	Total	Signature
Marks	1	1	1	1	1	2	2	1	2	2	3	3	20	
Scored														

SECTION A [30 MARKS] ANSWER ALL QUESTION		
Question 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 choice circled, no score will be awarded.	[10]
i.	Which principle of 5S is applied, If Thinley arranges items properly based on the “can see, can take-out, can return” philosophy? A Set. B Sort. C Shine. D Sustain.	
ii.	Which is worn to avoid injuries to the front part of the body? A Apron B Gloves C Goggle D Safety Shoes	
iii.	The best way to combat small fires or household fire is by using A water. B blanket. C mud. D chemical.	
iv	Chain wrench is used for the diameters of pipe more than A 1 inch. B 2 inches. C 3 inches. D 4 inches.	
V.	A set of tools that are designated for a specific task is known as A tools. B tools box. C machine. D Equipment.	

<p>vi. Plastic pipe cutter cuts all types of pipes up to</p> <ul style="list-style-type: none"> A. 15 mm to 20 mm B. 15 mm to 30 mm. C. 15 mm to 40 mm. D. 15 mm to 50 mm. 	
<p>vii. Hacksaw has a frame where the blades are mounted with the teeth facing</p> <ul style="list-style-type: none"> A forward. B left side. C right side. D backward. 	
<p>viii. The purpose of applying lubricant is to reduce</p> <ul style="list-style-type: none"> A force. B friction. C pressure. D temperature 	
<p>ix. Plastic tube reamer has an internal de-burr snapped in with</p> <ul style="list-style-type: none"> A 3 blades. B 4 blades. C 5 blades. D 6 blades. 	
<p>x. It is important to check the inner thickness of the pipe after reaming to maintain a minimum thickness of</p> <ul style="list-style-type: none"> A. 1 mm. B. 2 mm. C. 3 mm. D. 4 mm. 	

b) Directions: Fill in the blanks with an appropriate word(s).	[10]
i. The most commonly used method to extinguish the fire is	
ii. An abbreviation used for the horizontal plane is	
iii. The unfinished product of steel pipe is called	
iv. The step taken to avoid an accident is called	
v. The tool used for deburring pipe is.....	
vi. Over reaming may cause the pipe to	
vii. Tripod pipe vice is potable with movable stands.	
viii. Pipe cutter will squeeze the pipe while	
ix. Hacksaw is a slow cut and gives finishing.	
x. PP-R Bud welding machine is used to weld the pipe ranging from 20 mm to mm	
c) Directions: Write TRUE or FALSE for the following statements in the boxes provided.	[5]
i. Always lift the weight with a bent back.	
ii. Fix a board “under repair” on the machine if it is not in working condition.	
iii. Water level pipe is used to check the one side level.	
iv. The standard height of the title block is 30 mm.	
v. The use of signs and symbols is to minimize the cost of materials.	

d) Directions: Match each item under column A with the most appropriate item in column B. Rewrite the correct pairs by writing the alphabet against the number in the space provided.

[5]

Column A	Column B
i. It is used for cutting metals and plastic pipes.	a. Elbow
ii. It will squeeze the pipe rotating the adjusting screw.	b. Steel pipe
iii. Durable and long-lasting available in many sizes.	c. Gas masks
iv. It is worn to protect from harmful gases and chemicals.	d. Hacksaw
v. To change the direction of the pipeline.	e. Pipe cutter
	f. PP-R pipe
	g. Hand gloves

Column A	Column B
i. It is used for cutting metals and plastic pipes.	
ii. It will squeeze the pipe rotating the adjusting screw.	
iii. Durable and long-lasting available in many sizes.	
iv. It is worn to protect from harmful gases and chemicals.	
v. To change the direction of the pipeline.	

SECTION B [20 MARKS] ATTEMPT ALL QUESTIONS	
Question 2. Short Response Question (SRQ)	
a) What do CPVC and PPR stand for?	[1]
b) List TWO fittings used to connect the pipe in a long straight run.	[1]
c) State the purpose of spirit level.	[1]
d) What are TWO stages of estimations.	[1]
e) List the different types of safety measures.	[1]

Question 3	
a) State TWO advantages of copper pipe.	[2]
b) List at least FOUR internal fittings.	[2]
c) State the function of pipe cutter.	[1]

<i>Extended Response Question</i>	
Question 4	
a) Explain the types of files and their uses.	[2]
b) List FOUR purpose of lubricant.	[2]

c) Explain the causes of defective pipe thread.

[3]

d) List and explain **THREE** terminologies of dimensions.

[3]