

Time : 1½ Hours**PLUMBING (NSQF)****Subject Code**

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Total No. of Questions : 4**(Printed Pages : 10)****Maximum Marks : 40****INSTRUCTIONS :** (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Write the no. of questions and sub-questions clearly.

(iv) Answer every new question on a new page.

1. (A) Select and write the most appropriate alternative given below each and rewrite the complete statement : 3

(i) This statement is true.

- 30% of our communication is non-verbal
- 20% communication is done using body movements, face arms
- 5% communication is done using voice tone
- 7% communication is done using words

(ii) is NOT a communication barrier ?

- Linguistic barrier
- Financial barrier
- Interpersonal barrier
- Organisational barrier

(iii) makes a student complete his homework and studies on time without adults instructing them.

- Self-motivation
- Positive thinking
- Self-esteem
- Communication

(iv) Nisha always arrives late to school. She does not submit her assignments on time. She gets carried away in certain activities and forgets the tasks in hand. She lacks

- Self-confidence
- Self-esteem
- Self-control
- Time Management

(v) is the term used when you press and hold the left mouse key and move it around.

- Highlighting
- Dragging
- Selecting
- Moving

(vi) is the command used on the keyboard to copy something.

- Ctrl + X
- Ctrl + V
- Ctrl + P
- Ctrl + C

(B) Answer the following : 4

(a) What is the aim of Sustainable Development Goals made by the United Nations ? List any 4 SDGs ?

(b) List the ways in which an entrepreneur empowers a community.

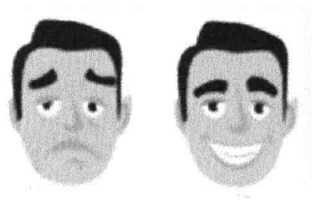
(C) Answer the following : 3

(i) In SMART goals, what does T stand for ? Explain.

(ii) What are the ways you can safeguard your computer from losing its data ?

(iii) Name the type of communication in each case :

(a)



(b)



2. (A) (1) Compare the Co-ordination in first pair and complete the second pair : 1

A

B

- (i) Rim overlaps the cut
out edge : Self-rimming washbasin.
Wall-mounted but also
rests on legs :
- (ii) A constant drip-feed of water
slowly fills the cistern : Timed Flush
A trap insert is filled with a
sealant liquid instead of water :

- (2) Give single term for the following definition : 1

- (i) Chlorinated Polyvinyl Chloride (CPVC) pipes are joined using this method of joining. It does not require threading of ends.
- (ii) This test can be performed when the plumbing is brand new. It is used to find sewer gas leaks that may plague a building or an area.

- (3) Match the following items in column A with column B and write the correct pair : 1

A

B

- | | |
|-------------------|---|
| (i) Push Tap : | (a) incorporates a passive infrared sensor to detect hand motion. |
| | (b) It is used for predetermined flow of water. |
| (ii) Sensor Tap : | (c) lever handle with different range of motion. |
| | (d) meant to control the water and temperature. |

- (B) Answer the following : 4

- (a) Write a short note on Solvent Cementing Technique.
- (b) Write a note on Bathtub giving all Dimensions and Specifications.

- (C) Answer the following : 3

- (i) What is Tapping ?
- (ii) List the types of faucets and explain any *one* in detail.
- (iii) How are sensor taps advantageous in public places ?

3. (A) Choose and write the correct alternative from the options given below. 3

(i) is used to spread the mortar on a brick wall.

- Chisel
- Hammer
- Trowel
- Pickaxe

(ii) Chase cut-outs in a wall is never done

- vertically
- diagonally
- horizontally
- none of the above

(iii) A masonry hammer has a square face on one end for breaking; it has a sharp edge on the other for

- Breaking
- Crushing
- Cutting
- Joining

(iv) For binding of masonry unit is used.

- Concrete
- Waterproofing
- Epoxy
- Mortar

(v) pump is also known as domestic pump.

- Reciprocating
- Centrifugal
- Airlift
- Rotary

(vi) Deep well jet pumps draw water from a depth of

- 25 ft to 110 ft
- 10 ft to 30 ft
- 1 ft to 20 ft
- 15 ft to 50 ft

(B) Answer the following : 4

(a) What are the functions of Roof and Windows in a building ?

(b) Write a note on Airlift Pump.

(C) Answer the following : 3

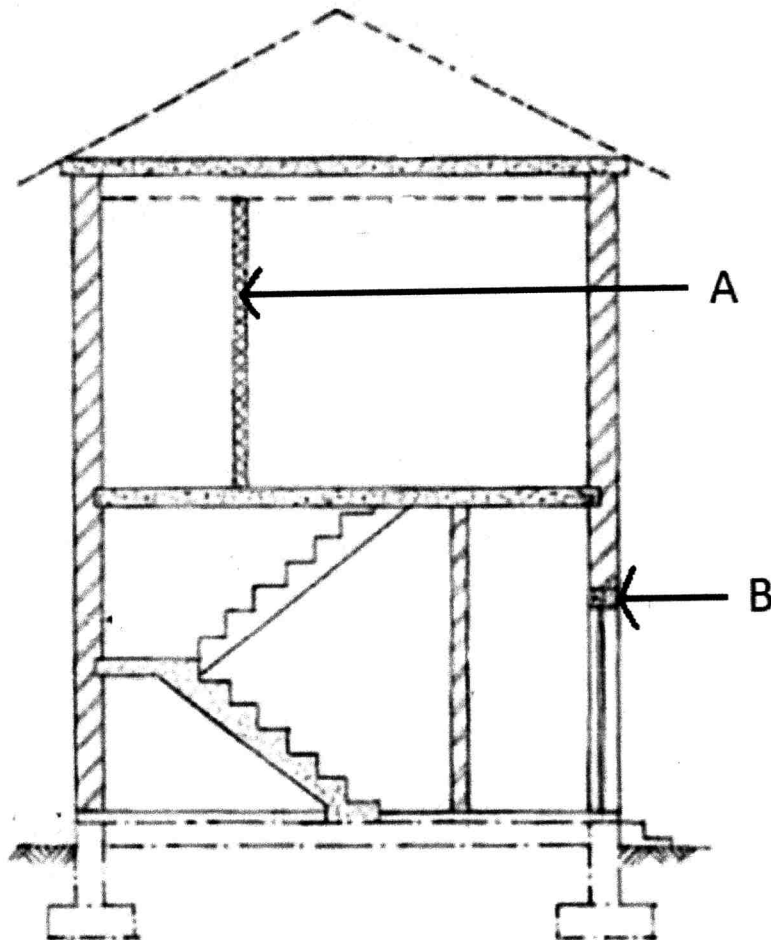
(i) What type of pump is used in deep dirty wells where the sand is acidic and alkaline ?

(ii) Nitin wants to install a pump. His requirements are that the pump should occupy less space. The initial fixing cost and operational cost should be low. The efficiency should be satisfactory. Which type of pump should he install ?

(iii) Identify and write the name of the part of the building labelled

A.

B.



4. (A) (1) Compare the Co-ordination in first pair and complete the second pair : 1

(i) Chrome plated Fittings : Oxalic Acid.

Nickel plated Fittings :

(ii) Sudden closing of tap or faucets,
creates a thump in the water pipe : Hammering noise.

Water comes in contact with loose
pipes rubbing each other :

(2) Give single term for the following definition : 1

(i) This valve is one of the most common valves used in the main supply lines of a water supply system and pump-lines.

(ii) This type of a tap or faucet does not use compression strength to stop water flow.

(3) Match the following items in column A with column B and write the correct pair : 1

A	B
Type of extinguisher	Main use
(i) Water	(a) Wood paper or fabrics
(ii) Carbon oxide	(b) Petrol oil, fats and paints
	(c) Liquids, gases, electrical equipments
	(d) Electrical equipment

(B) Answer the following :

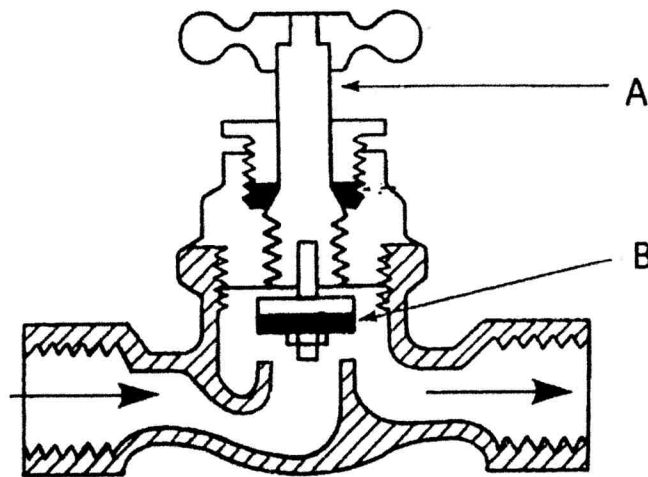
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- (i) State the repair procedure of Float valve.
- (ii) What are PPEs ? What type of protection is needed in for working in confined spaces such as sewers ?

(C) Answer the following :

3

- (i) What is the Action of Repair of Joint failure of Steel Pipe ?
- (ii) What are the safety precautions to be followed for protection against falls at workplace ?
- (iii) Name the parts of the stopcock labelled A and B.



STOPCOCK