Model Question Paper Year 2025-26

Class: AII	Subject: Plumbing	
Time:2Hrs. 30 Minutes	Max.Marks:60	
Name of the student:		Roll No:

General Instructions:

- 1. Please read the instructions carefully.
- 2. Marks allotted are mentioned against each section/question.
- 3. All questions must be attempted in the correct order.
- 4. This Question Paper consists of **34 questions** in **four sections Section A**, **Section B**, **Section C** & **Section D**.
- 5. Section A has Objective Answer Type Questions
 - **Section B** contains **Very Short Answer Type Questions**
 - **Section C** contains **Short Answer Type Questions**
 - **Section D** contains **Essay Type Questions**
- 6. Out of the given 34 questions, a candidate has to answer **30 questions** in the allotted time of **150 minutes**.
- 7. All questions of a particular section must be attempted in the correct order.

SECTION A-OBJECTIVE TYPE QUESTIONS(15MARKS):

- i. This section has 15 questions.
- ii. There is no negative marking.
- iii. Do as per the instructions given.
- iv. Marks allotted are mentioned against each question/part.
- 2. SECTIONB-VERY SHORT ANSWERTYPEQUESTIONS(12MARKS):
 - i. This section contains 08 questions of 2 marks each.
 - ii. A candidate has to do 06 questions.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.
- 3. SECTION C-SHORT ANSWER TYPE QUESTIONS (18 MARKS):
 - i. This section contains 08 questions of 3 marks each.
 - ii. A candidate has to do 06 questions.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.
- 4. SECTION D-ESSAY TYPE QUESTIONS (15 MARKS):
 - i. This section contains 03 questions of 5 marks each.

ii. iii. iv.	A candidate has to do 03 questions. Do as per the instructions given. Marks allotted are mentioned against each question/part.	
		Pg.2

SECTION A- (OBJECTIVE TYPE QUESTIONS)

Answer the following questions

(1x15=15marks)

 Q.1 What is the primary function of flow sensors in a plumbing system? a) To measure water temperature. b) To measure the rate of water flow. d) To identify water quality issues Q.2 In cold-welding joint preparation for CPVC pipes, what is applied first? a) Solvent cement b) Water sealant c) Primer d) Epoxy resin Q.3 What type of device is a solenoid valve primarily described as? a) A purely mechanical device b) A pneumatic device. c) An electromechanical device. d) A hydraulic device. Q.4 What is the primary function of a battery box? a) To generate electricity. c) To provide a protective container for batterie b) To regulate battery voltage. d) To measure battery life. Q.5 Which type of battery is commonly used in wireless leak detectors and smart ware meters according to the text? a) Lithium-ion Batteries c) Nickel-Cadmium Batteries b) Alkaline Batteries d) Lead-Acid Batteries Q.6 Elevated Surface Reservoirs (ESR) are constructed at a height of more than: a) 3 meters c) 15 meters b) 10 meters d) 30 meters Q.7 fittings use a push and lock mechanism for easy installation without soldering or threading. Q.8 Occupational Health and Safety (OHS) practices help in identifying and preventing workplace accidents. Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools? 	1 1 s. 1 1 1 1 1 1
b) To measure the rate of water flow. d) To identify water quality issues Q.2	1 1 s. 1 1 1 1 1 1
a) Solvent cement b) Water sealant d) Epoxy resin Q.3 What type of device is a solenoid valve primarily described as? a) A purely mechanical device b) A pneumatic device. c) An electromechanical device. d) A hydraulic device. Q.4 What is the primary function of a battery box? a) To generate electricity. b) To regulate battery voltage. d) To measure battery life. Q.5 Which type of battery is commonly used in wireless leak detectors and smart war meters according to the text? a) Lithium-ion Batteries b) Alkaline Batteries d) Lead-Acid Batteries Q.6 Elevated Surface Reservoirs (ESR) are constructed at a height of more than: a) 3 meters b) 10 meters d) 30 meters Q.7	1 s. er 1 1 1 1 1
Decomposition	1 s. er 1 1 1 1 1
Q.3 What type of device is a solenoid valve primarily described as? a) A purely mechanical device b) A pneumatic device. c) An electromechanical device. d) A hydraulic device. Q.4 What is the primary function of a battery box? a) To generate electricity. b) To regulate battery voltage. d) To measure battery life. Q.5 Which type of battery is commonly used in wireless leak detectors and smart warmeters according to the text? a) Lithium-ion Batteries b) Alkaline Batteries c) Nickel-Cadmium Batteries b) Alkaline Batteries d) Lead-Acid Batteries Q.6 Elevated Surface Reservoirs (ESR) are constructed at a height of more than: a) 3 meters b) 10 meters d) 30 meters Q.7 fittings use a push and lock mechanism for easy installation without soldering or threading. Q.8 Occupational Health and Safety (OHS) practices help in identifying and preventing workplace accidents. Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools?	1 s. er 1 1 1 1 1
a) A purely mechanical device b) A pneumatic device. c) An electromechanical device. d) A hydraulic device. Q.4 What is the primary function of a battery box? a) To generate electricity. c) To provide a protective container for batteric b) To regulate battery voltage. d) To measure battery life. Q.5 Which type of battery is commonly used in wireless leak detectors and smart warmeters according to the text? a) Lithium-ion Batteries c) Nickel-Cadmium Batteries b) Alkaline Batteries d) Lead-Acid Batteries Q.6 Elevated Surface Reservoirs (ESR) are constructed at a height of more than: a) 3 meters c) 15 meters b) 10 meters d) 30 meters Q.7 fittings use a push and lock mechanism for easy installation without soldering or threading. Q.8 Occupational Health and Safety (OHS) practices help in identifying and preventing workplace accidents. Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools?	1 s. er 1 1 1 1 1
c)An electromechanical device. d) A hydraulic device. Q.4 What is the primary function of a battery box? a) To generate electricity. c) To provide a protective container for batteric b) To regulate battery voltage. d) To measure battery life. Q.5 Which type of battery is commonly used in wireless leak detectors and smart was meters according to the text? a) Lithium-ion Batteries c) Nickel-Cadmium Batteries b) Alkaline Batteries d) Lead-Acid Batteries Q.6 Elevated Surface Reservoirs (ESR) are constructed at a height of more than: a) 3 meters c) 15 meters b) 10 meters d) 30 meters Q.7 fittings use a push and lock mechanism for easy installation without soldering or threading. Q.8 Occupational Health and Safety (OHS) practices help in identifying and preventing workplace accidents. Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools?	s. er 1 1 1 1 1 1
Q.4 What is the primary function of a battery box? a) To generate electricity. c) To provide a protective container for batteric b) To regulate battery voltage. d) To measure battery life. Q.5 Which type of battery is commonly used in wireless leak detectors and smart war meters according to the text? a) Lithium-ion Batteries c) Nickel-Cadmium Batteries b) Alkaline Batteries d) Lead-Acid Batteries Q.6 Elevated Surface Reservoirs (ESR) are constructed at a height of more than: a) 3 meters c) 15 meters b) 10 meters d) 30 meters Q.7 fittings use a push and lock mechanism for easy installation without soldering or threading. Q.8 Occupational Health and Safety (OHS) practices help in identifying and preventing workplace accidents. Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools?	s. er 1 1 1 1 1 1
a) To generate electricity. c) To provide a protective container for batteric b) To regulate battery voltage. d) To measure battery life. Q.5 Which type of battery is commonly used in wireless leak detectors and smart was meters according to the text? a) Lithium-ion Batteries c) Nickel-Cadmium Batteries b) Alkaline Batteries d) Lead-Acid Batteries Q.6 Elevated Surface Reservoirs (ESR) are constructed at a height of more than: a) 3 meters c) 15 meters d) 30 meters D.7 fittings use a push and lock mechanism for easy installation without soldering or threading. Q.8 Occupational Health and Safety (OHS) practices help in identifying and preventing workplace accidents. Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools?	s. er 1 1 1 1 1 1
b) To regulate battery voltage. d) To measure battery life. Q.5 Which type of battery is commonly used in wireless leak detectors and smart was meters according to the text? a) Lithium-ion Batteries c) Nickel-Cadmium Batteries b) Alkaline Batteries d) Lead-Acid Batteries Q.6 Elevated Surface Reservoirs (ESR) are constructed at a height of more than: a) 3 meters c) 15 meters b) 10 meters d) 30 meters Q.7 fittings use a push and lock mechanism for easy installation without soldering or threading. Q.8 Occupational Health and Safety (OHS) practices help in identifying and preventing workplace accidents. Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools?	er 1 1 1 1 1 1
Q.5 Which type of battery is commonly used in wireless leak detectors and smart was meters according to the text? a) Lithium-ion Batteries c) Nickel-Cadmium Batteries b) Alkaline Batteries d) Lead-Acid Batteries Q.6 Elevated Surface Reservoirs (ESR) are constructed at a height of more than: a) 3 meters c) 15 meters b) 10 meters d) 30 meters Q.7 fittings use a push and lock mechanism for easy installation without soldering or threading. Q.8 Occupational Health and Safety (OHS) practices help in identifying and preventing workplace accidents. Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools?	1 1 1
meters according to the text? a) Lithium-ion Batteries c) Nickel-Cadmium Batteries b) Alkaline Batteries d) Lead-Acid Batteries Q.6 Elevated Surface Reservoirs (ESR) are constructed at a height of more than: a) 3 meters c) 15 meters b) 10 meters d) 30 meters Q.7 fittings use a push and lock mechanism for easy installation without soldering or threading. Q.8 Occupational Health and Safety (OHS) practices help in identifying and preventing workplace accidents. Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools?	1 1 1
a) Lithium-ion Batteries c) Nickel-Cadmium Batteries b) Alkaline Batteries d) Lead-Acid Batteries Q.6 Elevated Surface Reservoirs (ESR) are constructed at a height of more than: a) 3 meters c) 15 meters b) 10 meters d) 30 meters Q.7 fittings use a push and lock mechanism for easy installation without soldering or threading. Q.8 Occupational Health and Safety (OHS) practices help in identifying and preventing workplace accidents. Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools?	1
b) Alkaline Batteries d) Lead-Acid Batteries Q.6 Elevated Surface Reservoirs (ESR) are constructed at a height of more than: a) 3 meters c) 15 meters b) 10 meters d) 30 meters Q.7 fittings use a push and lock mechanism for easy installation without soldering or threading. Q.8 Occupational Health and Safety (OHS) practices help in identifying and preventing workplace accidents. Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools?	1
Q.6 Elevated Surface Reservoirs (ESR) are constructed at a height of more than: a) 3 meters c) 15 meters b) 10 meters d) 30 meters Q.7 fittings use a push and lock mechanism for easy installation without soldering or threading. Q.8 Occupational Health and Safety (OHS) practices help in identifying and preventing workplace accidents. Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools?	1
a) 3 meters b) 10 meters d) 30 meters Q.7 fittings use a push and lock mechanism for easy installation without soldering or threading. Q.8 Occupational Health and Safety (OHS) practices help in identifying and preventing workplace accidents. Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools?	1
b) 10 meters Q.7 fittings use a push and lock mechanism for easy installation without soldering or threading. Q.8 Occupational Health and Safety (OHS) practices help in identifying and preventing workplace accidents. Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools?	1
Q.7	1
soldering or threading. Q.8 Occupational Health and Safety (OHS) practices help in identifying and preventing workplace accidents. Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools?	1
 Q.8 Occupational Health and Safety (OHS) practices help in identifying and preventing workplace accidents. Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools? 	
and preventing workplace accidents. Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools?	
 Q.9 The is a document that records daily activities, incidents, and safety topics on a construction site. Q.10 Give the two example of a hand tools? 	
topics on a construction site. Q.10 Give the two example of a hand tools?	1 1
Q.10 Give the two example of a hand tools?	1
•	1
	+
Q.11 In which type of supply CPVC pipe is used?	1
Q.12 Which type of tool is specifically designed for cutting pipe materials like PVC,	1
CPVC, or steel?	
Q.13 Assertion (A):Standard Operating Procedures (SOPs) contribute to operational	1
efficiency, quality control, and workplace safety.	
Reason (R):SOPs promote accountability by clearly defining roles and	
responsibilities within a process.	
Options:	
A. Both A and R are true, and R is the correct explanation of A.	
B. Both A and R are true, but R is not the correct explanation of A.	
C. A is true, but R is false.	
D. A is false, but R is true.	
Q.14 Assertion (A): For good teamwork, it is essential to always agree with your team	1
members to avoid conflicts.	
Reason (R): Transparency and healthy interaction must be promoted among team	
members.	
Options: A. Both A and R are true, and R is the correct explanation of A.	
B. Both A and R are true, but R is not the correct explanation of A.	
C. A is true, but R is false.	
D. A is false, but R is true.	
Q.15 Assertion (A): Maintaining good relationships with colleagues can improve job	1
satisfaction and reduce workplace stress.	1
Reason (R): Positive interpersonal relationships create a supportive and	
cooperative atmosphere, making the work environment more pleasant.	
Options:	1

- A. Both A and R are true, and R is the correct explanation of A.
- B. Both A and R are true, but R is not the correct explanation of A.
- C. A is true, but R is false.
- D. A is false, but R is true.

SECTION B-(Very Short Answer Type Questions)

Answer any 6out of the given 8 questions in 20–30 words each (2x6=12marks)

Q.16	What is the primary function of a sensor?	2
Q.17	How advance pipe fitting is used in residential unit.	2
Q.18	Explain the importance of SOP in plumbing work.	2
Q.19	What is a fire sprinkler and its types?	2
Q.20	What do you mean by Team Management and their importance?	2
Q.21	What is the main purpose and utility of Daily Log Reports?	2
Q.22	What is the main job of a battery box?	2
Q.23	How can a solenoid valve help in a water leak?	2

SECTION C-(Short Answer Type Questions)

Answer any 6 out of the given 8 questions in 30–50words each(3x6=18marks)

Q.24	Explain general health and safety rules in pipe fitting?	3
Q.25	List the safety precautions to be taken by cutting the pipe?	3
Q.26	What is a sensor and write its application in plumbing?	3
Q.27	What are the benefits of using advanced pipe fittings in residential units?	3
Q.28	How does a time-controlled sensor faucet regulate water flow?	3
Q.29	How does an infrared sensor faucet detect the presence of an object?	3
Q.30	Why are good communication skills essential for an advanced plumbing	3
	technician when interacting with clients?	
Q.31	What is the purpose of a Standard Operating Procedure (SOP) in plumbing work?	3

SECTION D-(Essay Type Questions)

Answer the following questions in50–80words each(3x5=15marks)

Q.32	Describe the installation and repair process of sensor-based faucet.	5
Q.33	What are the advantages and limitations of a solar water heater?	5
Q.34	Explain the application of OHS practices in plumbing work.	5