# **CBSE | DEPARTMENT OF SKILL EDUCATION**

## **Electronics and Hardware (SUBJECT CODE - 420)**

## MARKING SCHEME FOR CLASS IX (Session-2023-2024)

Max. Time: 2 Hours Max. Marks: 50

#### **General Instructions:**

- 1. Please read the instructions carefully.
- 2. This Question Paper consists of 21 questions in two sections Section A & Section B.
- **3.** Section A has Objective type questions whereas Section B contains Subjective type questions.
- 4. Out of the given (5 + 16 =) 21 questions, a candidate has to answer (5 + 10 =) 15 questions in the allotted (maximum) time of 2 hours.
- **5.** All questions of a particular section must be attempted in the correct order.
- 6. SECTION A OBJECTIVE TYPE QUESTIONS (24 MARKS):
  - i. This section has 05 questions.
  - ii. There is no negative marking.
  - iii. Do as per the instructions given.
  - iv. Marks allotted are mentioned against each question/part.

### 7. SECTION B – SUBJECTIVE TYPE QUESTIONS (26 MARKS):

- i. This section contains 16 questions.
- ii. A candidate has to do 10 questions.
- iii. Do as per the instructions given.
- iv. Marks allotted are mentioned against each question/part.

### **SECTION A: OBJECTIVE TYPE QUESTIONS**

| Q. No. | QUESTION                                                                            | Source Material<br>(NCERT/PSSCIVE/<br>CBSE Study Material) | Unit/<br>Chap.<br>No. | Page no.<br>of source<br>material | Marks |  |  |  |
|--------|-------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------|-----------------------------------|-------|--|--|--|
| Q. 1   | Answer any 4 out of the given 6 questions on Employability Skills (1 x 4 = 4 marks) |                                                            |                       |                                   |       |  |  |  |
| i.     | b) share                                                                            | PSSCIVE                                                    | Chapter               | Page No                           | 1     |  |  |  |
|        |                                                                                     | CLASS IX                                                   | 1                     | 02                                |       |  |  |  |
|        |                                                                                     | BOOK NAME-                                                 |                       |                                   |       |  |  |  |
|        |                                                                                     | Employability Skills                                       |                       |                                   |       |  |  |  |
| ii.    | c) Committed                                                                        | PSSCIVE                                                    | Chapter               | Page No                           | 1     |  |  |  |
|        |                                                                                     | CLASS IX                                                   | 2                     | 70                                |       |  |  |  |
|        |                                                                                     | BOOK NAME-                                                 |                       |                                   |       |  |  |  |
|        |                                                                                     | Employability Skills                                       |                       |                                   |       |  |  |  |
| iii.   | <b>b</b> ) Bargaining                                                               | PSSCIVE                                                    | Chapter               | Page No                           | 1     |  |  |  |
|        |                                                                                     | CLASS IX                                                   | 2                     | 58                                |       |  |  |  |
|        |                                                                                     | BOOK NAME-                                                 |                       |                                   |       |  |  |  |
|        |                                                                                     | Employability Skills                                       |                       |                                   |       |  |  |  |
| iv.    | Information and Communication Technology                                            | PSSCIVE                                                    | Chapter               | Page No                           | 1     |  |  |  |
|        |                                                                                     | CLASS IX                                                   | 3                     | 83                                |       |  |  |  |
|        |                                                                                     | BOOK NAME-                                                 |                       |                                   |       |  |  |  |
|        |                                                                                     | <b>Employability Skills</b>                                |                       |                                   |       |  |  |  |
| v.     | b) Economic                                                                         | PSSCIVE                                                    | Chapter               | Page No                           | 1     |  |  |  |
|        |                                                                                     | CLASS IX                                                   | 4                     | 135                               |       |  |  |  |
|        |                                                                                     | BOOK NAME-                                                 |                       |                                   |       |  |  |  |
|        |                                                                                     | <b>Employability Skills</b>                                |                       |                                   |       |  |  |  |

| vi.  | b) Solar Energy                              | PSSCIVE<br>CLASS IX<br>BOOK NAME-        | Chapter<br>5 | Page No<br><b>181</b> | 1 |
|------|----------------------------------------------|------------------------------------------|--------------|-----------------------|---|
|      |                                              | Employability Skills                     |              |                       |   |
| Q. 2 | Answer any 5 out of the given 6 question     | ns (1 x 5 = 5 marks)                     |              |                       |   |
| i.   | b) volt                                      | PSSCIVE BOOK                             | Chapter      | Page No               | 1 |
|      |                                              | CLASS IX                                 | 1            | 10                    |   |
|      |                                              | BOOK NAME: - Field                       |              |                       |   |
|      |                                              | Technician – Other                       |              |                       |   |
|      |                                              | Home Appliances                          |              |                       |   |
| ii.  | a) capacitor                                 | PSSCIVE BOOK                             | Chapter      | Page No               | 1 |
|      |                                              | CLASS IX                                 | 2            | 62                    |   |
|      |                                              | BOOK NAME: - Field                       |              |                       |   |
|      |                                              | Technician – Other                       |              |                       |   |
|      |                                              | Home Appliances                          |              |                       |   |
| iii. | b) 500mg/L                                   | PSSCIVE BOOK                             | Chapter<br>5 | Page No               | 1 |
|      |                                              | CLASS IX                                 | <b>)</b>     | 194                   |   |
|      |                                              | BOOK NAME: - Field<br>Technician – Other |              |                       |   |
|      |                                              |                                          |              |                       |   |
|      | a) A                                         | Home Appliances PSSCIVE BOOK             | Chantar      | Dago No               | 1 |
| iv.  | c) Ammeter/ a) multimeter                    | CLASS IX                                 | Chapter<br>3 | Page No<br>89         | 1 |
|      |                                              | BOOK NAME: - Field                       |              | 09                    |   |
|      |                                              | Technician – Other                       |              |                       |   |
|      |                                              | Home Appliances                          |              |                       |   |
| ٧.   | c) 50-70 psi                                 | PSSCIVE BOOK                             | Chapter      | Page No               | 1 |
| ٧.   | c/ 30 70 βsi                                 | CLASS IX                                 | 4            | 178                   | • |
|      |                                              | BOOK NAME: - Field                       |              |                       |   |
|      |                                              | Technician – Other                       |              |                       |   |
|      |                                              | Home Appliances                          |              |                       |   |
| vi.  | b) Artificial respiration                    | PSSCIVE BOOK                             | Chapter      | Page No               | 1 |
|      | ·                                            | CLASS IX                                 | 6            | 236                   |   |
|      |                                              | BOOK NAME: - Field                       |              |                       |   |
|      |                                              | Technician – Other                       |              |                       |   |
|      |                                              | Home Appliances                          |              |                       |   |
| Q. 3 | Answer any 5 out of the given 6 questions (1 | 1                                        |              |                       |   |
| i.   | b) 5A                                        | PSSCIVE BOOK                             | Chapter      | Page No               | 1 |
|      |                                              | CLASS IX                                 | 1            | 46                    |   |
|      |                                              | BOOK NAME: - Field                       |              |                       |   |
|      |                                              | Technician – Other                       |              |                       |   |
|      | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \        | Home Appliances                          | Ch - · · ·   | D 61                  |   |
| ii.  | c) Both a & b                                | PSSCIVE BOOK                             | Chapter<br>2 | Page No               | 1 |
|      |                                              | CLASS IX                                 |              | 78                    |   |
|      |                                              | BOOK NAME: - Field<br>Technician – Other |              |                       |   |
|      |                                              | Home Appliances                          |              |                       |   |
| iii. | Meggar                                       | PSSCIVE BOOK                             | Chapter      | Page No               | 1 |
| 111. | Meggar                                       | CLASS IX                                 | 3            | 108                   |   |
|      |                                              | BOOK NAME: - Field                       |              | 100                   |   |
|      |                                              | Technician – Other                       |              |                       |   |
|      |                                              | Home Appliances                          |              |                       |   |
| iv.  | a) 50 PPM                                    | PSSCIVE BOOK                             | Chapter      | Page No               | 1 |
|      |                                              | CLASS IX                                 | 4            | 178                   | _ |

|            |                                           | BOOK NAME: - Field   |         |               |      |
|------------|-------------------------------------------|----------------------|---------|---------------|------|
|            |                                           | Technician – Other   |         |               |      |
|            |                                           | Home Appliances      |         |               |      |
| ٧.         | d) Parts per million                      | PSSCIVE BOOK         | Chapter | Page No       | 1    |
|            | , ,                                       | CLASS IX             | 5       | 218           |      |
|            |                                           | BOOK NAME: - Field   |         |               |      |
|            |                                           | Technician – Other   |         |               |      |
|            |                                           | Home Appliances      |         |               |      |
| vi.        | a) Tap and dies                           | PSSCIVE BOOK         | Chapter | Page No       | 1    |
|            | a) rap and ales                           | CLASS IX             | 6       | 235           | -    |
|            |                                           | BOOK NAME: - Field   |         |               |      |
|            |                                           | Technician – Other   |         |               |      |
|            |                                           | Home Appliances      |         |               |      |
| Q.No.      | QUESTION                                  | Source Material      | Unit/   | Page no.      | Mark |
| <b>_</b>   | <b>Q0-2011011</b>                         | (NCERT/PSSCIVE/      | Chap.   | of source     |      |
|            |                                           | CBSE Study Material) | No.     | material      |      |
| Q. 4       | Answer any 5 out of the given 6 questions | •                    | 1101    | material      |      |
| i.         | Hand                                      | PSSCIVE BOOK         | Chapter | Page No       | 1    |
|            | Tidild                                    | CLASS IX             | 6       | 235           | _    |
|            |                                           | BOOK NAME: - Field   |         | 233           |      |
|            |                                           | Technician – Other   |         |               |      |
|            |                                           | Home Appliances      |         |               |      |
| ii.        | d) All of the above                       | PSSCIVE BOOK         | Chapter | Page No       | 1    |
|            | d) All of the above                       | CLASS IX             | 5       | 218           | -    |
|            |                                           | BOOK NAME: - Field   |         | 210           |      |
|            |                                           | Technician – Other   |         |               |      |
|            |                                           | Home Appliances      |         |               |      |
| iii.       | c) Equal to 7                             | PSSCIVE BOOK         | Chapter | Page No       | 1    |
|            | c) Equal to 7                             | CLASS IX             | 4       | 177           | _    |
|            |                                           | BOOK NAME: - Field   |         | 1,,           |      |
|            |                                           | Technician – Other   |         |               |      |
|            |                                           | Home Appliances      |         |               |      |
| iv.        | Clamp Meter                               | PSSCIVE BOOK         | Chapter | Page No       | 1    |
| 10.        | Clamp Meter                               | CLASS IX             | 3       | 112           |      |
|            |                                           | BOOK NAME: - Field   |         | 112           |      |
|            |                                           | Technician – Other   |         |               |      |
|            |                                           | Home Appliances      |         |               |      |
| ٧.         | b) 1.1kΩ 5%                               | PSSCIVE BOOK         | Chapter | Page No       | 1    |
| ٧.         | S) 1.1K22 5/0                             | CLASS IX             | 2       | 82            | •    |
|            |                                           | BOOK NAME: - Field   | _       | 02            |      |
|            |                                           | Technician – Other   |         |               |      |
|            |                                           | Home Appliances      |         |               |      |
| vi.        | (d) All of the above                      | PSSCIVE BOOK         | Chapter | Page No       | 1    |
| VI.        | (u) All of the above                      | CLASS IX             | 1       | 2             |      |
|            |                                           | BOOK NAME: - Field   |         |               |      |
|            |                                           | Technician – Other   |         |               |      |
|            |                                           | Home Appliances      |         |               |      |
| Q. 5       | Answer any 5 out of the given 6 questions |                      |         |               |      |
| ر. ع<br>i. |                                           | PSSCIVE BOOK         | Chapter | Dago No       | 1    |
| 1.         | a) AC                                     | CLASS IX             | 2       | Page No<br>79 | 1    |
|            |                                           | BOOK NAME: - Field   |         | /9            |      |
|            |                                           |                      |         |               |      |
|            |                                           | Technician – Other   |         |               |      |
|            |                                           | Home Appliances      |         |               |      |

| ii.  | Neon                                                                                                                      | PSSCIVE BOOK CLASS IX BOOK NAME: - Field Technician – Other Home Appliances | Chapter 3           | Page No<br>112 | 1 |
|------|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------|----------------|---|
| iii. | 1000 - 3600                                                                                                               | PSSCIVE BOOK CLASS IX BOOK NAME: - Field Technician – Other Home Appliances | Chapter<br>1        | Page No<br>48  | 1 |
| iv.  | True                                                                                                                      | PSSCIVE BOOK CLASS IX BOOK NAME: - Field Technician – Other Home Appliances | <b>Chapter</b><br>6 | Page No<br>237 | 1 |
| V.   | Which of the following is used as a wire connector.  a) Lugs b) Screwdriver c) Stripper d) Hammer                         | PSSCIVE BOOK CLASS IX BOOK NAME: - Field Technician – Other Home Appliances | Chapter 3           | Page No<br>111 | 1 |
| vi.  | In NPN Transistor P-type material is equivalent toof the Diode. a) Cathode b) Anode c) Ground d) Neutral Answer: b) Anode | PSSCIVE BOOK CLASS IX BOOK NAME: - Field Technician – Other Home Appliances | Chapter<br>2        | Page No<br>68  | 1 |

## **ii.SECTION B: SUBJECTIVE TYPE QUESTIONS**

| Q.<br>No. | QUESTION                                                                                                                                                                                                                                                         | Source Material<br>(NCERT/PSSCIVE/<br>CBSE Study Material) | Unit/<br>Chap.<br>No. | Page no.<br>of source<br>material | Marks |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------|-----------------------------------|-------|
| Answ      | er any 3 out of the given 5 questions on Employ                                                                                                                                                                                                                  | ability Skills in 20 – 30 v                                | vords each            | $(2 \times 3 = 6 \text{ m})$      | arks) |
| Q. 6      | Write down different types of non-verbal communication.  Answer: The different types of non-verbal communication are Facial Expression, Posture, Gestures or Body Language, Touch, Space, Eye Contact, Paralanguage.                                             | PSSCIVE<br>CLASS IX<br>BOOK NAME-<br>Employability Skills  | Chapter<br>1          | Page No<br>13                     | 2     |
| Q. 7      | What are the factors that affect self-confidence?  Answer: The factors that affect self-confidence are:  (a) When we think we cannot do a particular work.  (b) When we keep thinking of our past mistakes and feel bad about it, instead of learning from them. | PSSCIVE<br>CLASS IX<br>BOOK NAME-<br>Employability Skills  | Chapter<br>2          | Page No<br><b>68</b>              | 2     |

|       | <ul><li>(c) When we expect to be successful at the first attempt itself and do not try again.</li><li>(d) When we are surrounded by people who have a negative attitude, which is reflected in their speech.</li></ul>                                                                             |                                                                             |              |                       |   |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------|-----------------------|---|
| Q. 8  | List the different input and output devices of a computer.  Answer:  Keyboards, mouse, scanners, etc. are some of the input devices while printers, monitors, headphones, etc. are some of the output devices.                                                                                     | PSSCIVE<br>CLASS IX<br>BOOK NAME-<br>Employability Skills                   | Chapter<br>3 | Page No<br><b>96</b>  | 2 |
| Q. 9  | What are the 3 types of business activities?  Answer: There can be three types of business activities:  • Product business  • Service business  • Hybrid business                                                                                                                                  | PSSCIVE<br>CLASS IX<br>BOOK NAME-<br>Employability Skills                   | Chapter<br>4 | Page No<br>153        | 2 |
| Q. 10 | What are green skills?  Answer: Green skills are those skills needed to adapt processes, services, and products to climate change and the environmental regulations and requirements related to it.                                                                                                | PSSCIVE<br>CLASS IX<br>BOOK NAME-<br>Employability Skills                   | Chapter<br>5 | Page No<br><b>176</b> | 2 |
| Answe | er any 4 out of the given 6 questions in 20 – 30                                                                                                                                                                                                                                                   | words each (2 x 4 = 8 m                                                     | arks)        |                       |   |
| Q. 11 | What is electric current?  Answer: The flow of electric charge is called electric current, The amount of current flowing from one place to another is determined by the amount of charge flowing through it per unit time.                                                                         | PSSCIVE BOOK CLASS IX BOOK NAME: - Field Technician – Other Home Appliances | Chapter<br>1 | Page No<br>23         | 2 |
| Q. 12 | What are the applications of transistor?  Answer:  Transistor will act as switch or can be used for amplification. An easy way to understand transistor is that it is a switch which is controlled by an electrical signal. Transistor can also be used for enhancing the applied signal strength. | PSSCIVE BOOK CLASS IX BOOK NAME: - Field Technician – Other Home Appliances | Chapter<br>2 | Page No<br>80         | 2 |
| Q. 13 | Write down two uses of a Multimeter?  Answer: The two uses of a multimeter are: 1. Multimeter is used to measure two or more electrical values—principally voltage (volts), current (amps) and resistance (ohms). 2. Multimeter is used to check continuity of a circuit.                          | PSSCIVE BOOK CLASS IX BOOK NAME: - Field Technician — Other Home Appliances | Chapter 3    | Page No<br>94         | 2 |
| Q. 14 | Write a short note on Carbon filter?  Answer:                                                                                                                                                                                                                                                      | PSSCIVE BOOK<br>CLASS IX                                                    | Chapter<br>4 | Page No<br>126        | 2 |

|          | Carbon filter uses showing about the                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DOOK NAME: Field                                                                                                            |              |                     |   |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|---|
|          | Carbon filter uses chemical absorption for                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BOOK NAME: - Field                                                                                                          |              |                     |   |
|          | filtration of water. Carbon is activated by                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Technician – Other                                                                                                          |              |                     |   |
|          | adding positive charge which enhances the                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Home Appliances                                                                                                             |              |                     |   |
|          | surface area as well as the ability of the                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                             |              |                     |   |
|          | filter. Carbon filter removes chlorine,                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                             |              |                     |   |
| 0 15     | arsenic, lead, asbestos, salts or metals.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | DCCCIVE DOOK                                                                                                                | Chanton      | D N-                |   |
| Q. 15    | Write down a short note on TDS?                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PSSCIVE BOOK                                                                                                                | Chapter      | Page No             | 2 |
|          | Answer:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CLASS IX                                                                                                                    | 5            | 199                 |   |
|          | Total Dissolved Solids (TDS) are the total                                                                                                                                                                                                                                                                                                                                                                                                                                                          | BOOK NAME: - Field                                                                                                          |              |                     |   |
|          | amount of dissolved solids present in water.                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Technician – Other                                                                                                          |              |                     |   |
|          | It is the sum of positively charged ions                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Home Appliances                                                                                                             |              |                     |   |
|          | (cations) and negatively charged ions                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                             |              |                     |   |
|          | (anions) in the water. It is measured in units                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                             |              |                     |   |
|          | of mg per unit volume of water (mg/L) and is                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                             |              |                     |   |
|          | also referred to as parts per million (ppm).                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                             |              |                     |   |
| Q. 16    | Write down the different types of                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PSSCIVE BOOK                                                                                                                | Chapter      | Page No             | 2 |
|          | Hazards?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CLASS IX                                                                                                                    | 6            | 226                 |   |
|          | Answer:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | BOOK NAME: - Field                                                                                                          |              |                     |   |
|          | Accident Hazards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Technician – Other                                                                                                          |              |                     |   |
|          | Physical Hazards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Home Appliances                                                                                                             |              |                     |   |
|          | <ul> <li>Psychological, psychosocial and</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                             |              |                     |   |
|          | Organizational Hazards                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                             |              |                     |   |
|          | Chemical Hazards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                             |              |                     |   |
| Answe    | er any 3 out of the given 5 questions in 50– 80 v                                                                                                                                                                                                                                                                                                                                                                                                                                                   | vords each (4 x 3 = 12 m                                                                                                    | ıarks)       |                     |   |
| Q. 17    | What is LED & Why LEDs are good                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | PSSCIVE BOOK                                                                                                                | Chapter      | Page No             | 4 |
| <b>~</b> | choice?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CLASS IX                                                                                                                    | 2            | 82                  | - |
|          | Answer: Light-Emitting Diode (LEDs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | BOOK NAME: - Field                                                                                                          |              | -                   |   |
|          | comprises of several layers of semi-                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Technician – Other                                                                                                          |              |                     |   |
|          | conducting material. When the diode is                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Home Appliances                                                                                                             |              |                     |   |
|          | being utilized with DC, the active layer                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                             |              |                     |   |
|          | produces light.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                             |              |                     |   |
|          | LEDs are good choice because of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                             |              |                     |   |
|          | following reasons:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                             |              |                     |   |
|          | 1. Long life                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                             |              |                     |   |
|          | 2. Durable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                             |              |                     |   |
|          | Z. Durable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                             |              |                     |   |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                             |              |                     |   |
|          | 3. High efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                             |              |                     |   |
|          | <ul><li>3. High efficiency</li><li>4. Low energy use</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                             |              |                     |   |
|          | 3. High efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                             |              |                     |   |
| Q. 18    | <ul><li>3. High efficiency</li><li>4. Low energy use</li><li>5. Compact size</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                              | PSSCIVE BOOK                                                                                                                | Chapter      | Page No             | 4 |
| Q. 18    | <ul><li>3. High efficiency</li><li>4. Low energy use</li><li>5. Compact size</li><li>6. No UV issue</li></ul>                                                                                                                                                                                                                                                                                                                                                                                       | PSSCIVE BOOK<br>CLASS IX                                                                                                    | Chapter<br>4 | Page No             | 4 |
| Q. 18    | <ul><li>3. High efficiency</li><li>4. Low energy use</li><li>5. Compact size</li><li>6. No UV issue</li><li>List the different types of water purifier?</li></ul>                                                                                                                                                                                                                                                                                                                                   |                                                                                                                             |              | Page No             | 4 |
| Q. 18    | <ul><li>3. High efficiency</li><li>4. Low energy use</li><li>5. Compact size</li><li>6. No UV issue</li><li>List the different types of water purifier?</li><li>Answer:</li></ul>                                                                                                                                                                                                                                                                                                                   | CLASS IX                                                                                                                    |              | Page No             | 4 |
| Q. 18    | <ul> <li>3. High efficiency</li> <li>4. Low energy use</li> <li>5. Compact size</li> <li>6. No UV issue</li> <li>List the different types of water purifier?</li> <li>Answer: <ul> <li>RO Water Purifiers</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                    | CLASS IX<br>BOOK NAME: - Field                                                                                              |              | Page No             | 4 |
| Q. 18    | <ul> <li>3. High efficiency</li> <li>4. Low energy use</li> <li>5. Compact size</li> <li>6. No UV issue</li> <li>List the different types of water purifier?</li> <li>Answer: <ul> <li>RO Water Purifiers</li> <li>UF Water Purifiers</li> <li>UV Water Purifiers</li> </ul> </li> </ul>                                                                                                                                                                                                            | CLASS IX<br>BOOK NAME: - Field<br>Technician – Other                                                                        |              | Page No             | 4 |
| Q. 18    | <ul> <li>3. High efficiency</li> <li>4. Low energy use</li> <li>5. Compact size</li> <li>6. No UV issue</li> <li>List the different types of water purifier?</li> <li>Answer: <ul> <li>RO Water Purifiers</li> <li>UF Water Purifiers</li> <li>UV Water Purifiers</li> <li>Gravity Based Water Purifiers</li> </ul> </li> </ul>                                                                                                                                                                     | CLASS IX<br>BOOK NAME: - Field<br>Technician – Other                                                                        |              | Page No             | 4 |
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|       | Step 2: Remove the cap and turn the TDS meter on Step 3: Insert the meter into the water Step 4: Lightly stir the water to displace any air bubbles Step 5: Wait for the display to stabilize Step 6: Press the HOLD button to view the reading Step 7: Remove the meter and shake off excess water Step 8: Replace the cap                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                             |              |                |   |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|--------------|----------------|---|
| Q. 20 | Write down the steps for the replacement of filter?  Answer: Following steps are used for the replacement of filter in purifier:  1. Turn off the feed water line using the SS ball valve.  2. Turn the SS ball valve off by turning the lever in perpendicular to the SS ball valve body.  3. Release the excessive pressure using the pressure release valve.  4. Put the wrench to first filter housing, open the housing by rotating the wrench in clockwise direction.  5 Remove the filter from the housing and discard the filter if necessary.  6. Put the new filter into the housing.  7. Ceramic filter is used in stage one and carbon black filter in stage two and three.  8. Before closing the housing make sure that every housing has a black O ring.  9. Tighten the housing by tighten the housing in the counter-clockwise direction. | PSSCIVE BOOK CLASS IX BOOK NAME: - Field Technician — Other Home Appliances | S 5          | Page No<br>207 | 4 |
| Q. 21 | What are the precautions to be taken for preventing electric shock on the job?  Answer:  • Ensure the power tools to be used in the assembly process include extension cord of proper rating.  • Do not use damaged electric tools.  • Inspect and test the installed electrical equipment and system at a regular interval.  • Check the rating and physical condition of the components and cables.  • Use the standard techniques for assembling the components.  • Use protective equipment for safety purpose.                                                                                                                                                                                                                                                                                                                                        | PSSCIVE BOOK CLASS IX BOOK NAME: - Field Technician – Other Home Appliances | Chapter<br>6 | Page No<br>229 | 4 |