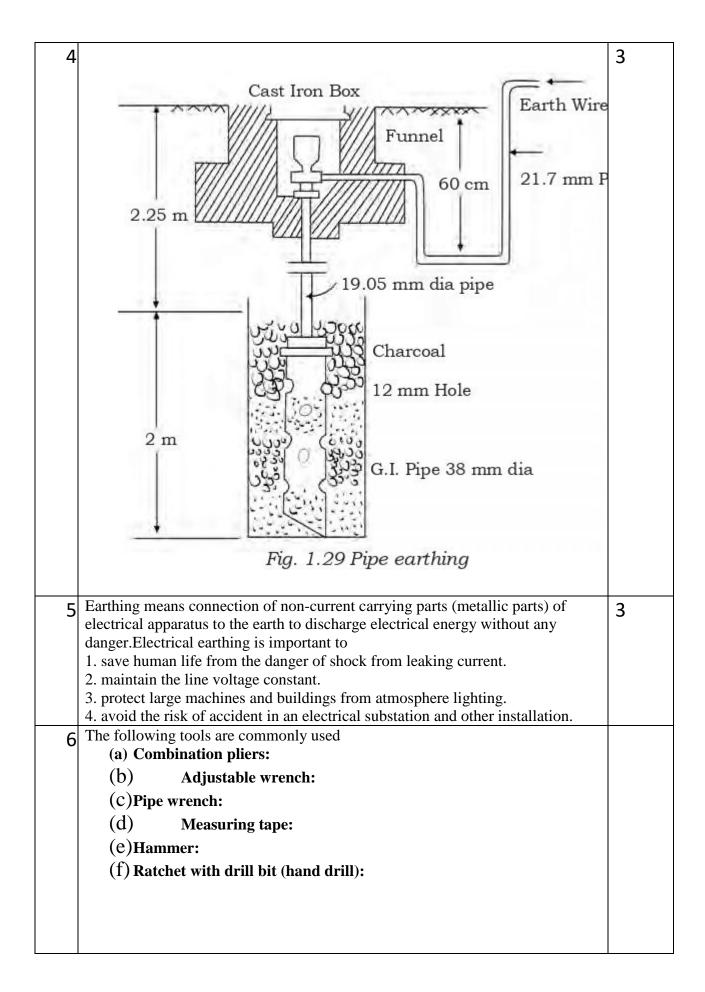
## **Marking Scheme of Model Test Paper**

Class 9<sup>th</sup> Subject:- Power

5
3
5



7	It is the most common type of age old watt-hour meter. It consists of a rotating aluminum disc mounted on a spindle between two electromagnets. Speed of	
	rotation of disc is proportional to the power and this power is integrated by the	
	use of counter mechanism and gear trains. It comprises two silicon steel	
	laminated electromagnets, i.e., series and shunt magnets	
8	(a) Switch:	3
	(b) One-way switch:	
	(C) Two-way switch:	
	(d) Intermediate switch:	
	(e)Holder:	
	(f) Socket outlet or plug:	
	Or	
	Precautions	
	1. Phase is always controlled by the switch.	
	2. The part of the wire without insulation should not be open.	
	3. Twisted wire fitted in the holder should be put in such a way that the two wires do not touch each other.	
	4. Carefully remove the insulation part such that the wire does not cut.	
	5. Do not touch any naked electrical wire unless you are sure that there is no	
	current in the wire	
9	Consumer Meters	3
	The consumer meter shall be installed by the licensee either at consumer	
	premises or outside the consumer premises:	
	(a) Provided that where the licensee installs the meter outside the premises of the consumer, the licensee shall provide real-time display unit at	
	the consumer premises for information to indicate the electricity consumed by	
	the consumer.	
	(b) Provided further that for the billing purpose, reading of consumer meter and	
	not the display unit shall be taken into account.	
	Or	
	It is an advanced metering technology involving placing intelligent meters	
	to read, process and provide feedback to customers. It measures	
	energy consumption, remotely switches the supply to customers	
	and remotely control the maximum electricity consumption. Smart metering system uses the advanced metering infrastructure	
	system technology for better performance. This system is capable of	
	communicating in bothdirections. It can transmit data to the utilities like	
	energy consumption, parameter values, alarms, etc.,	
10	Points to be earthed(Any four)	2
	1. Earth pin of 3 pin and 5 pin plug and socket	_
	2. All metal parts of the electrical machine, e.g.,	
	motor, heater geyser and mixer	
	3. Metallic frame of electrical machines	
	4. The neutral conductor of 3-phase 4-wire system  5. Pole tower armouring of cable	
	<ul><li>5. Pole, tower, armouring of cable</li><li>6. Stray wire of overhead lines</li></ul>	
	o. Suay wife of overhead files	

11	The following tools are commonly used for (Any four) tools are  (a) Combination pliers:  (b) Adjustable wrench:  (c)Pipe wrench:  (d) Measuring tape:  (e)Hammer:  (f) Ratchet with drill bit (hand drill):	
12	The consumer meter shall be installed by the licensee either at consumer premises or outside the consumer premises:  (a) Provided that where the licensee installs the meter outside the premises of the consumer, the licensee shall provide real-time display unit at the consumer premises for information to indicate the electricity consumed by the consumer.  (b) Provided further that for the billing purpose, reading of consumer meter and not the display unit shall be taken into account.	2
13	One must note here that a self-employed person may not be an entrepreneur if she/he does not have these qualities. An entrepreneur should be willing to take a calculated risk and is always open to new ideas to make his/her business grow. A person who has does not take risks, is not open to new ideas and is running the business only to earn a steady source of income is not an entrepreneur.	2
14	<ul> <li>a) Copper: It is a good conductor of electricity. It is used in wiring material in cables. Its resistance is low and used for conduction of electricity at high, medium and low voltage</li> <li>(b) Aluminium: It is light weight in comparison to copper. Aluminium is cheaper than copper and is thereforemostly used in electrical wiring and cable making.</li> <li>Or</li> <li>Aluminium: Its colour is silvery-white and it is soft</li> </ul>	2
15	Conservation and management of water are essential for the survival of mankind, plants and animals. This can be achieved by adopting the following methods:  1. Growing vegetation in the catchment areas, which will hold water in the soil and allow it to percolate into deeper layers and contribute to formation of ground water.  2. Constructing dams and reservoirs to regulate supply of water to the fields, as well as to enable generation of hydroelectricity.  3. Sewage should be treated and only the clear water should be released into the rivers.  4. Industrial wastes (effluents) should be treated to prevent chemical and thermal pollution offresh water.  Or  Conservation and management of water are essential for the survival of	2

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	thermal pollution offresh water.	_
16	В	1
17	C	1
18	A	1
19	В	1
20	A	1
21	A,B,C	1
22	A,C,D	1
23	D	1
24	В	1
25	FALSE	1
26	TRUE	1
27	ELECTROMECHANICAL	1
28	SIM CARD	1
29	JOINING THE WIRES	1
30	NEON	1