









**Sample QB: Solar Panel Installation Technician-Theory Questions**

S.no	Question	Option 1	Option 2	Option 3	Option 4	Answer
1	Who is responsible for ensuring that the site is cleared before starting the installation of solar panels?	Junior technician	HR department	Solar panel installation technician	Supervisor	3
2	What is the typical recommended lifespan of the platform or structural construction on a rooftop designed to support the installation of solar panels?	1 year	Approx 4 years	Approx 14 years	Approx 20 years	4
3	What is the relationship between solar intensity and the power output of solar panels?	Directly	Indirectly	No relation	All of these	1
4	Which type of solar panel generates the highest electricity output?	Monocrystallin solar panel	Polycrystallin solar panel	Amorphous silicon	Cadmium telluride	1

5	What information will you communicate to the customer upon arriving at their location for solar panel installation, before beginning the process?	Time required for installation	Invoice amount	Preventive maintenance steps	Basic troubleshooting steps	1
6	which is right sequence for installation of solar panel? A)wire the solar modules B)secure the rear legs C)Mount the panels. D)Bury conduit and build a platform.	ABCD	DCBA	CDBA	BCDA	2
7	Which of these tools are required for installing solar panels?	Angle finder	Rakes	Cultivator	None of these	1
8	Which voltage is best for solar panels?	48 Volts	20 Volts	10 Volts	30 Volts	1

9	Select test equipment that you will require during solar panel installation.					1
10	What is the minimum number of personnel required for installing rooftop solar panels?	1	2	5	10	2
11	What will you do upon discovering that the batteries supplied to the site have not passed quality control?	Install the batteries	Escalate to supervisor and seek his guidance	Ask QC team to visit site and do testing	Hold the installation and move to next site	2
12	Which material is most popularly used in solar panels?	Zinc	Silicon	Magnesium	None of these	2
13	What steps should be followed before departing from the site after completing the solar panel installation?	Collect original invoice from the customer	Give demo to the customer regarding functionality of solar panel	Fill customer feedback form and ask customer to sign	Collect warranty certificate from the customer	2
14	Select the appropriate testing equipment to verify the connectivity of the solar panels with the inverter and batteries.					1

15	What is full form of CSP is solar energy?	Compared solar power	Concentrated solar power	Combined solar power	Common solar power	2
16	Which is the best combination for connecting solar panels?	Series	Parallel	Both series and parallel	All of these	1
17	what minerals are used in solar panels?	Cadmium	Gallium	Indium	All of these	
18	What is full form of BIPV in solar energy?	Building integrated photo voltaics	Building infrastructure photo voltaics	Building input in photo voltaics	None of these	1
19	What makes silicon the most commonly used material in solar panels?	Poor conductor of electricity	Good conductor of electricity	Good insulator	None of these	1
20	What are the benefits of achieving daily installation targets?	To claim compensation	To claim travelling allowance	To claim yearly bonus	To claim incentive	4

**Sample QB: Solar Panel Installation Technician-Viva Questions**

S.no	Viva Question	Answer
1	List tools required during solar panel installation	<ul style="list-style-type: none"> <li>• Plier</li> <li>• Screw Driver Set</li> <li>• Cable Striper</li> <li>• Wire cutter</li> <li>• Multimeter</li> <li>• Drill machine</li> </ul>
2	What will you ensure before leaving for site for solar panel installation?	<ul style="list-style-type: none"> <li>• Adequate manpower to accomplish task</li> <li>• Proper and working tools &amp; test equipments</li> <li>• QC passed equipment for installation</li> <li>• All items as mentioned in Invoice</li> </ul>
3	List accessories required for Solar Panel Installation.	<ul style="list-style-type: none"> <li>• Mounting required to fix solar panels</li> <li>• Solar panel</li> <li>• Nuts and bolts required for fixing panels on mounting</li> <li>• Inverter</li> <li>• Battery</li> </ul>
4	List steps that you will take during solar panel installation?	<ul style="list-style-type: none"> <li>• Install the mounting</li> <li>• Place panel on mounting carefully</li> <li>• Fix the panel with help of nuts and bolts</li> <li>• Connect panel with inverter and battery</li> <li>• Connect all the bare copper wires to the ground bus</li> <li>• Follow applicable electrical codes and standards</li> </ul>
5	What precautions are required to be taken during solar panel installation?	<ul style="list-style-type: none"> <li>• Take ESD precautions while handling electronic components</li> <li>• Dispose of waste material carefully</li> <li>• Ensure zero accidents at work</li> <li>• Escalate about any hazardous materials or things found in the premises</li> <li>• Avoid Inflammable material at site</li> </ul>

**Sample QB: Solar Panel Installation Technician-Practical Questions**

<b>S.no</b>	<b>Practical Scenario</b>	<b>Rubrics</b>
1	Assume you are under discussion with customer for product and location finalisation of solar panel installation. Explain the basic steps to be taken by you as a Technician for assessing site conditions keeping in mind installation requirement of the client.	candidate describe to prepare work plan for installation decide on the type of mounting to be made such as roof top, open fields, small spaces decide the place of installation and ensure maximum period of sunlight is captured inform the customer for any civil construction to be undertaken for installing the panels interact with customers and understand the purpose of installation get concurrence from the customer on the package of materials to be procured