

SEMESTER - V

PHYSICS - 7B

MOST IMP ESSAY QUESTIONS

UNIT-1:

- ① Explain about solar radiation and classify.
- ② What is a Pyrometer. Explain working of it and give its applications?

UNIT-2:

- ① Explain construction and working and types of solar water heating system.
- ② Give the construction and working of a solar cooker.

UNIT-3:

- ① What is quantum efficiency of solar cell and explain different types of efficiencies?
- ② Explain the effect of light intensity on solar cell.
- ③ Explain effect of temperature on the efficiency of a solar cell.

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UNIT-4:

- ① What are types of solar cells are available?
- ② How solar Panels produced?

UNIT-5:

- ① What is electric battery? How it works?
- ② Write description about Molten solvent batteries.
- ③ What is a Supercapacitor explain its working and give its applications?

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MOST IMP SHORT QUESTIONS

UNIT-1:

- ① What is Zenith angle?
- ② What are the differences between Pyrheliometer and Pyranometer?

UNIT-2:

- ① Explain energy balance equation and efficiency of solar thermal collectors.
- ② How does a forced circulation solar system work?

UNIT-3:

- ① What is shunt resistance?
- ② What is series resistance?

UNIT-4:

- ① What is amorphous silicon solar cells?
- ② Explain series combination of solar panels in series?

UNIT-5:

- ① Explain about different types of batteries?
- ② What is a dry cell battery?

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MOST IMP VERY SHORT QUESTIONS

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UNIT-1:

- ① What is solar constant and what is its value?
- ② What is air mass?
- ③ What is difference between direct and diffuse radiation?

UNIT-2:

- ① What is thermal collector used for?
- ② What is the efficiency of a solar energy collector? and how it is calculated?

UNIT-3:

- ① What is homojunction and heterojunction?
- ② What do you mean by Schottky barrier?

UNIT-4:

- ① What is multiple junction?
- ② What is blocking diode for solar panel?

UNIT-5:

- ① What is an electrochemical device?
- ② What is a primary and secondary cell?

- ③ What is a super capacitor used for?
- ④ What is difference between capacitor and supercapacitor?

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