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SB—60—2022

FACULTY OF SCIENCE

B.Sc. (Third Year) (Fifth Semester) EXAMINATION

JUNE/JULY, 2022

(CBCS/Old Pattern)

PHYSICS

Paper XIII

(Solar Energy)

(Monday, 13-6-2022)

Time : 10.00 a.m. to 12.30 p.m.

Time—2½ Hours

Maximum Marks—40

N.B. :— All questions are compulsory.

1. Explain in detail working principle and generations in solar cell. 15
Or
 - (a) Describe in detail energy generation in sun. 8
 - (b) Explain spectral distribution of solar radiations. 7
2. Draw the neat labelled block diagram of grid connected solar photovoltaic system and describe of each block. 15
Or
 - (a) Explain the concept of conduction convection and radiation. 8
 - (b) Describe solar water heating system with its working principle. 7
3. Write short notes on (any two) (each of 5 marks) : 10
 - (a) Global radiation
 - (b) Solar array
 - (c) Planck's law
 - (d) Energy balance equation.

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