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Question Paper Code: 58A71

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2021

One credit Course

Agriculture Engineering

15UAG871 – Solar pv system

(Regulation 2015)

Duration: 1.30 hours

Maximum: 50 Marks

Answer ALL Questions

PART A - (6 x 1 = 6 Marks)

1. The most common material for the production of solar cell _____ CO1- U
(a) silicon (b) carbon (c) iron (d) none
2. Sun tracking mirrors are known as _____ CO1- R
(a) parabolic (b) heliostats (c) metals (d) semiconductor
3. Heat transfer is controlled by _____ CO1- U
(a) spacing (b) thickness (c) fins & tubes (d) all the above
4. Typical solar cells are _____ CO1- U
(a) 1-3 inches (b) 2-4 inches (c) 5-8 inches (d) 3-6 inches
5. Solar cells are connected in series and _____ combinations to form CO1- U
modules that provide required power?
(a) parallel (b) horizontal (c) vertical (d) all the above
6. Major component of solar pv system _____ CO1- U
(a) batteries (b) inverter (c) wiring (d) all the above

PART – B (6 x 2= 12 Marks)

7. What is solar photovoltaic system? CO1 R
8. Explain the components of solar pv system? CO1 U
9. What are the types of solar cell? CO1 R
10. Explain the application of solar pv system? CO1 U

11. Define solar pv power plants? CO1 R
12. Draw the diagram of solar pv pumping system? CO1 U

PART – C (2x 16= 32 Marks)

13. (a) What is Solar photovoltaic (PV) systems and explain its working principles? CO1 R (16)
- Or
- (b) Briefly explain about solar home lighting system& Solar PV fencing? CO1 R (16)
14. (a) Briefly explain about solar home lighting system& Solar PV fencing? CO1 R (16)
- Or
- (b) Explain about solar street light & solar lantern? CO1 R (16)