

Malaviya National Institute of Technology Jaipur

Centre for Energy and Environment

PhD Admission 2021 (Even Semester)

Model questions

Q1. The principle of zero energy building to..... and on fossil fuels so that net energy consumption will be zero.

- a) increase carbon emission and reduce dependence
- b) reduce carbon emission and reduce dependence
- c) reduce carbon emission and increase dependence
- d) a, b option is wrong

Q2. A module in a solar panel refers to

- a. Series arrangement of solar cells.
- b. Parallel arrangement of solar cells.
- c. Series and parallel arrangement of solar cells.
- d. None of the above.

Q3. Production of bio-ethanol is through fermentation of _____ and starch components

- (a) alcohol
- (b) sugar
- (c) milk
- (d) acid

Q4. The house heats up during summer due to heating up of the walls and roof. We can reduce this heating process economically by?

- 1) Using light coloured walls and painting the roof with reflecting paints
- 2) Covering the roof with insulating materials and planting trees to provide shades
- 3) Using more electricity energy to cool the house
- 4) Spraying cool water

Which of the above statements are correct?

- a) 1 and 2
- b) 1,3 and 4
- c) 1 and 3
- d) 3 and 4

Q5. Smart Grid Technology comprises the following:

- a. AMI, PLM, OMS, Renewable Integration, Microgrid
- b. DR/DSM, Distribution Automation, Energy Efficient Systems
- c. All of the above
- d. None of the above