



**KERRI STATE UNIVERSITY OF SCIENCE AND TECHNOLOGY, ALIBERO**  
**FACULTY OF ENGINEERING**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**  
**KEESTATIONS,**

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SESSION: 2022/2023  
COURSE CODE: EEC 212  
COURSE TITLE: Electrical Power System

1<sup>st</sup> SEMESTER EXAMINATION  
TIME ALLOWED: 3 hours  
UNITS: 3  
TOTAL MARKS: 60

INSTRUCTIONS: Attempt Any Five (5) Questions. All questions carry equal marks.

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**Question 1.**

- (a) Briefly explain solar power plant and state the two techniques to harness the energy from the sun to produce electricity (8 marks)
- (b) Draw a neat block diagram of a simple photovoltaic system (4 marks)

**Question 2.**

- (a) Write short note on the following:
  - (i) Generation (4 marks)
  - (ii) Transmission (4 marks)
  - (iii) Distribution (4 marks)

**Question 3.**

- (a) Distinguish between short and medium transmission line (8 marks)
- (b) State four purpose protection system (4 marks)

**Question 4.**

- (a) Define the following term
  - (i) Feeders (3 marks)
  - (ii) Distributor (3 marks)
- (b) State any three insulating material used for cable (3 marks)
- (c) Mention three types of cable used for 3 phase service (3 marks)

**Question 5.**

- (a) Why is insulators used with overhead lines (4 marks)
- (b) Sketch and explain the two types of insulators used for overhead lines (8 marks)

**Question 6.**

- (a) Differentiate between isolator and circuit breaker (8 marks)
- (b) Draw and label an underground cable (4 marks)

# Question Bank With Solved 2 Mark Qs Power System Analysis

**CO Houle**



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