

**STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI-86**  
**(For candidates admitted during the academic year 2011–12 & thereafter)**

**SUBJECT CODE: 11PH/GE/HE44**

**B.A./B.Sc./B.Com. / B.V.A./ B.C.A. / B.S.W. DEGREE EXAMINATION**  
**APRIL 2015**

**COURSE : GENERAL ELECTIVE**  
**PAPER : HOME ELECTRICAL INSTALLATIONS**  
**TIME : 3 HOURS** **MAX. MARKS: 100**

**SECTION – A**

**Answer ALL questions:** **(10 x 3 = 30)**

1. Define the term resistance.
2. When is a circuit said to be open and closed.
3. Draw the diagram of a plug and label its parts.
4. State the use of a choke coil.
5. Define electric power.
6. State the principle of the working of a washing machine.
7. Mention the uses of CFL.
8. State Ohm's law.
9. Mention the principle of a lightning conductor.
10. Differentiate between heating wire and fuse wire.

**SECTION – B**

**Answer any SIX questions:** **(6x 5= 30)**

11. With a neat diagram explain series and parallel circuit.
12. Explain the parts of a circuit with a neat diagram.
13. What is a switch? Briefly explain any three types of switch.
14. State the differences between incandescent lamp and fluorescent lamp.
15. What is a motor pump? State its uses.
16. Mention any five safety measures.
17. Define the following
  - a. power
  - b. energy
  - c. Kilowatt hour
18. Define earthing. Explain the method of earthing.

**SECTION – C**

**Answer any TWO questions:** **(2x 20= 40)**

19. Explain single and three phase connection. State the advantage of three phase connection.
20. With a neat diagram explain the working a refrigerator.
21. a. Define fuse? Explain the different types of fuses with neat diagram.  
b. Explain circuit breaker and magnetic relay.
22. State the principle and explain the working of a. rice cooker b. voltage stabilizer.



