

**Avinashilingam Institute for Home Science and Higher Education for women,  
(Deemed to be University) Coimbatore – 641 043**

**Master's Degree Examination -2018  
Semester –I**

**Class : I PG  
Major : Interior Design and Resource Management**

**Time : 3 Hours  
Max Marks : 60**

**17MIRC05 Household Equipment**

**Part - A** 10 x 1/2 = 5

**Choose the Correct Answer**

1. Flow of electrons in any conductor is called as  
a) Electric current      b) Electric pressure      c) Volt      d) Ampere
2. When positive and negative wire of any circuit comes in contact and very high current flows the circuit is called as  
a) Close circuit      b) Open circuit      c) Electric circuit      d) Short circuit
3. The power developed in oil engines, steam engines and electric motor is called as  
a) Electric power      b) Electric energy      c) Mechanical power      d) Horse power
4. Insulated wire wound on a bobin in many turns and layers in which current is flowing and a soft iron piece is placed in the bobbin is called as  
a) Magnetic motive force      b) Solenoid      c) Negative induction      d) Electro-magnet
5. Device used for transferring power from one circuit to another circuit without change in frequency is called  
a) Volt meter      b) Inductor      c) Transformer      d) Ohm meter
6. In automatic iron  
a) 400-700 watt element is used      c) 450-750 watt element is used  
b) 750-1000 watt element is used      d) 1000 and above watt element is used
7. Manually operated device for closing and for changing the connection of the circuit is  
a) Switch      b) Cable      c) Fuse      d) Cartridge fuse link
8. The drawing that describes how one electronic component or unit connects to another  
a) Wiring diagram      b) Assembly diagram      c) Logic diagram      d) Block diagram
9. Extensively used insulation material is  
a) Mica      b) Asbestos      c) Mineral wood      d) All the above
10. Which of the following is a thermosetting product  
a) Nylon      b) Melamine      c) Vinly      d) Acrylic

**Part- B**

**5×4=20**

**Answer the following**

**Answer should not exceed 200 words or one page**

11. a) What is electricity how electricity is generated explain electrical circuit.  
Or  
b) Define safety, differentiate between 3- phase and 1-phase supply. Write a brief note on safety technology.
12. a) List down the cooking electric and non-electric appliance used in kitchen.  
Or  
b) Explain refrigerator indicating the parts, mechanism of operation used and maintenance.
13. a) A maintenance is affected by the design of the equipment. Explain.  
Or  
b) State Ohm's law. Differentiate series and parallel circuit.
14. a) Discuss in detail the role of BIS and types of standards already developed.  
Or  
b) Illustrate the wiring plan of a house belonging to high income family.
15. a) Explain the working principle of any four equipment.  
Or  
b) Write a short note on roti maker, toaster, and coffee maker.

**Part-C**

**5×7 = 35**

**Answer the following**

**Answer should not exceed 600 words or three pages**

16. a) Write a brief note on induction stove and gas stove  
Or  
b) Factors affecting selection and use of equipment in the house.
17. a) Explain the ergonomics principles used in designing household equipment.  
Or  
b) Discuss the consideration for safe and convenient working surface
18. a) Define equipment, enumerate the motor driven appliances, explain any one equipment indicating the parts, mechanism of operation, use and maintenance.  
Or  
b) What is electric shock, enumerate causes and preventive measures for electric shock.
19. a.) Discuss on the common problems encountered in operating an electrical equipment.  
Or  
b) Explain the safety consideration in the use of household equipments.
20. a) Describe recent trends in equipment available in the market.  
Or  
b) Discuss the areas in which research is needed in the household equipment?

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