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Time : 2 Hours**Domestic & Consumer Appliances****Subject Code**

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Total No. of Questions : 5**(Printed Pages : 4)****Maximum Marks : 50**

INSTRUCTIONS : (i) Write each question on fresh page.

(ii) All questions are compulsory.

(iii) Figures to the right indicate full marks.

(iv) Draw neat labeled diagram wherever necessary.

(v) Write serial number of question and sub-question clearly.

1. (A) Fill in the blanks : 1×2=2

(i) The function to open or close the circuit at predetermined temperature like any ordinary switch is performed automatically by

(ii) In CD player reading of audio signal information stored on the disc is done using

(B) Answer the following : 3×2=6

(i) With the help of neat diagram explain the construction of swan neck type electric kettle.

(ii) List any *six* precautions you will take while handling vacuum cleaner

- (C) Answer the following : 2×1=2
- Briefly explain four types of rotary positions used in electric hot plate.
2. (A) Name the following : 1×2=2
- (i) State the classification of washing machine with respect to their operation.
- (ii) What type of motor is used in exhaust fan ?
- (B) Answer the following : 3×2=6
- (i) With the help of neat diagram, explain the construction of simple wet grinder.
- (ii) Draw a neat diagram of manual toaster and explain.
- (C) Answer the following : 2×1=2
- Give any *four* precautions to be taken while handling immersion heater.
3. (A) Fill in the blanks : 1×2=2
- (i) The device used to control the magnitude and phase of applied voltage in servomechanism type voltage stabilizer is
- (ii) Cell is a basic building block of manufacturing
- (B) Answer the following : 3×1=3
- With the help of neat diagram briefly explain blower type of room heater.

(C) Answer the following : 5×1=5

(i) (a) Explain with a neat diagram float charging in battery.

(b) Briefly explain cross sectional diagram of gas lighter.

Or

(ii) (a) Briefly explain what a voltage stabilizer comprises of ?

(b) Explain the block diagram of fluorescent tube emergency light.

4. (A) Answer in brief : 1×2=2

(i) What is the function of magnetron in microwave oven ?

(ii) What is the function of mixer stage in public address system ?

(B) Answer the following : 3×1=3

Draw the labeled diagram of electric bell and explain working principle and operation.

(C) Answer the following : 5×1=5

(i) Draw block diagram of monochrome television and explain the following blocks.

(a) Yagi antenna

(b) Video detector

(c) RF tuner

Or

(ii) Draw neat block diagram of AM radio receiver and explain each block.

5. Answer the following :

2×5=10

- (i) State the type of motor, function of gear assembly and bearing in electric drill machine.
- (ii) State any *four* points of comparison between AM and FM radio receiver.
- (iii) Draw labelled block diagram of DTH.
- (iv) Draw labelled diagram of compact disc and state its diameter.
- (v) State any *four* requirements of public address system.