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Time : 2 Hours

DOMESTIC AND CONSUMER APPLIANCES

Subject Code

V	3	4	2
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Total No. of Questions : 5

(Printed Pages : 3)

Maximum Marks : 50

INSTRUCTIONS: (i) Answer each question on a fresh page.

(ii) Write the number of question and sub-questions clearly.

(iii) Figures to the right indicate full marks.

(iv) Draw neat diagrams wherever necessary.

(v) All questions are compulsory

1 (A) Fill in the blanks with appropriate word:

1x2=2

- (i) To produce minimum Heat in electric stove the Heating element should be connected in _____.
- (ii) The part used to read the signal services impedance stored on disc surface is known as _____.

(B) Answer the following:

3x2=6

- (i) Explain with a neat diagram construction of non automatic electric iron.
- (ii) State any six precautions that you will take while working on wet grinder.

(C) Answer the following in short:

2x1=2

Explain the working principle of Electric stove.

2(A) Answer the following in one sentence :

1x2=2

- (i) Why capacitor is provided in speed control method of electric mixer?
- (ii) What is the function of gear assembly in washing machine?

(B) Answer the following: 3x2=6

(i) Explain the Constructional details of electric stove with the help of a neat diagram.

(ii) With labeled diagram explain the construction of ceiling fan.

(C) Answer the following : 2x1= 2

State any four precautions to be taken while handling electric kettle.

3 (A) Fill in the blanks with appropriate word : 1x2=2

(i)The I.F. frequency of F.M Receiver is _____.

(ii)The cell that converts light Energy into electric energy is called as _____.

(B) Answer the following. 3x1=3

(i)With neat labeled diagram explain the working mechanism of tilting type wet grinder.

(C) Answer the following in details. 5x1=5

(i)What does voltage stabilizer comprise of? Briefly explain working of A.C voltage stabilizer using servo-mechanism.

OR

(ii)Explain with neat block diagram Sophisticated Emergency light.

4 (A) Answer the following in Short. 1x2=2

(i) Why thermostat is used in heating appliances?

(ii) What is scanning in Television?

(B) Answer the following:- 3x1=3

Draw the block diagram of mains operated battery charges and

Explain the different blocks.

(C) Answer the following:- ·

5x1=5

- (i) Draw a labeled block diagram of Black and White T.V. receiver.
Explain the following block.
- (a) Yagi Antenna and feeder.
 - (b) Balun Transformer.
 - (c) Video detector.

Or

- (ii) Draw labeled block diagram of DTH and explain each block. Explain the components of DTH.

5. (A) Answer the following in brief:-

2x5=10

- (i) Name the types of washing machine based on different operating system.
- (ii) Compare A.M. and F.M. radio receiver (Any four points).
- (iii) Draw a cross sectional labeled diagram of electric gas lighter.
- (iv) State any four requirements of Public address system.
- (v) Briefly explain the construction of C.D. using diagram.