



2018 III 17

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Seat No. :

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Time : 2 Hours

**DOMESTIC AND CONSUMER APPLIANCES  
(New Pattern)**

**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-question clearly.  
iii) Figures to the right indicate full marks.  
iv) Draw diagram **wherever** necessary.  
v) **All** questions are **compulsory**.

1. A) Fill in the blanks with appropriate word. **(1×2=2)**

- i) To avoid rusting of the Iron case used to cover the element and pressure plate is coated with \_\_\_\_\_
- ii) The special type of light source used to read the stored signal on the disc is \_\_\_\_\_

B) Answer the following : **(3×2=6)**

- i) State the working principle of Microwave Oven and name any four parts.
- ii) What precautions should be taken while using electric mixer ? (any six).

C) Answer the following in short : **(2×1=2)**

Draw the diagram of coil type of electric stove. Name the different parts of it.

2. A) Answer the following in **one** sentence : **(1×2=2)**

- i) Why the universal motor is preferred in electric drill machine ?
- ii) Which type of fan regulator is more efficient ?



B) Answer the following : **(3×2=6)**

- i) Explain the construction of tilted type wet grinder with neat diagram.
- ii) Draw labeled diagram and explain construction of U-shape electric immersion heater.

C) Answer the following : **(2×1=2)**

Write any four precautions to be taken while using electric toaster.

3. A) Fill in the blanks with appropriate word : **(1×2=2)**

- i) When main supply fails inverter in fluorescent tube Emergency Light is switched on by \_\_\_\_\_
- ii) The semiconductor material used in solar cell is \_\_\_\_\_

B) Answer the following : **(3×1=3)**

Write any three points of difference between upright type and Tank type vacuum cleaners.

C) Answer the following in details : **(5×1=5)**

- i) Draw a neat labelled diagram of Electric bell. Explain its working principle with construction in brief.

OR

- ii) Draw a neat labelled diagram of Electric Gas Lighter. Explain its parts in brief with operation.

4. A) Answer the following in short : **(1×2=2)**

- i) State the working principle of heating appliances.
- ii) What is meant by scanning in Television ?

B) Answer the following : **(3×1=3)**

Draw the unit block diagram of emergency light and explain in short .



C) Answer the following in details : **(5×1=5)**

i) Draw labelled block diagram of DTH and explain each block. Explain in short the components of DTH.

OR

ii) Draw labelled block diagram of Black and white TV and explain the following blocks :

a) Video detector

b) Audio amplifier

c) Power supply.

5. Answer the following in brief : **(2×5=10)**

i) State any four main parts of ceiling fan.

ii) Draw block diagram of FM radio receiver.

iii) Describe in brief any two requirements of Public Address System.

iv) Compare the AM and FM radio receiver (any four points).

v) Draw labelled diagram of Compact Disc (CD).

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