



2018 VI 13

1430

Seat No. :

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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 : 2)

Maximum Marks : 50

- INSTRUCTIONS:** i) Write **each** question on a **fresh** page.  
ii) **All** questions are **compulsory**.  
iii) Figures to **right** indicate **full** marks.  
iv) Draw **neat** labelled diagram **wherever** necessary.  
v) Write serial number of question and sub-question **clearly**.

1. A) Fill in the blanks : (1×2=2)  
I) To avoid rusting, the electric iron cover is generally plated with \_\_\_\_\_  
II) Intermediate frequency in AM receiver is \_\_\_\_\_
- B) Answer the following : (3×2=6)  
I) Explain the construction of Swan Neck Kettle with the help of neat diagram.  
II) List any six precautions you will take while handling wet grinder.
- C) Answer the following : (2×1=2)  
State working principle of Electric Moulded type immersion water heater.
2. A) Answer the following in **one** or **two** lines : (1×2=2)  
I) What is the function of gear case assembly in washing machine ?  
II) Why capacitor is connected in speed control method in electric mixer ?
- B) Answer the following : (3×2=6)  
I) Explain the construction of simple wet grinder with the help of neat diagram.  
II) With the help of neat diagram explain the construction and operation of hot plate.
- C) Answer the following : (2×1=2)  
Give any four precautions to be taken while working with electric oven.



3. A) Answer the following in **one** or **two** words : **(1×2=2)**  
I) Which are the two factors which influence the output of P.V. module ?  
II) Name the element in battery charging system used to prevent flow of excessive charging current in the battery under charge.
- B) Answer the following : **(3×1=3)**  
With the help of neat air path flow diagram explain the construction and operation of upright vacuum cleaner.
- C) Answer the following : **(5×1=5)**  
I) Draw the block diagram of Sophisticated Emergency Light and explain each block in detail.
- OR
- II) Explain A.C. voltage stabilizer using relay with block diagram operation and selection of taps.
4. A) Answer the following in short : **(1×2=2)**  
I) Name the device which prevent developing extra pressure inside the chamber in water heater.  
II) Why the microphones for P.A. system should be preferably cardioid type ?
- B) Answer the following : **(3×1=3)**  
With the help of neat diagram explain the construction and operation of electric bell.
- C) Answer the following : **(5×1=5)**  
I) Explain with the help of neat block diagram working of AM Radio receiver.
- OR
- II) Draw block diagram of monochrome television and explain the working of following blocks :  
a) Video amplifier b) Sound detector  
c) Yagi antenna and feeder
5. Answer the following : **(2×5=10)**  
I) Draw neat diagrams of speed control methods used in electric mixer.  
II) Draw labelled diagram of CD giving the function of coating used on the reflector surface.  
III) What is the function of driver amplifier in P.A.S. ?  
IV) What is meant by horizontal and vertical scanning in TV ?  
V) What is the function of demodulator and decoder in D.T.H. ?
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