# CBSE Class 12 Electrical Technology 2018 - Set 312 - Compartment

## Question Paper

Conducted by the Central Board of Secondary Education (CBSE)

**Time Allowed: 2 Hours** **Maximum Marks: 40**

### General Instructions

(i) This question paper contains 32 questions in three sections.

(ii) Section A: Answer any eleven questions from Questions 1–15, carrying 1 mark each.

(iii) Section B: Answer any ten questions from Questions 16–27, carrying 2 marks each.

(iv) Section C: Answer any three questions from Questions 28–32, carrying 3 marks each.

## Section A

*Answer any 11 questions.*

**1.** Element of reflector type room heater is made from

(A) Manganin wire
(B) Nichrome wire
(C) Copper wire
(D) None of these

**2.** As compared to non-polished reflector polished reflector will radiate

(A) same heat
(B) less heat
(C) more heat
(D) double heat

**3.** Testing of defective electric iron may be carried out by

(A) text lamp only
(B) megger only
(C) both (i) and (ii)
(D) None of these

**4.** Iron sole plate is used in the construction of

(A) bowl type heater
(B) ordinary electric iron
(C) automatic electric iron
(D) both (ii) and (iii)

**5.** Heating element of hot plate is similar to the element of

(A) an electric iron
(B) a room heater
(C) both (i) and (ii)
(D) None of these

**6.** Electric oven should be connected with supply by

(A) 2 Pin, 5 A, 250 V Plug
(B) 3 pin, 5A, 230 V Plug
(C) 3 Pin, 15 A, 230 V Plug
(D) Any one of these

**7.** Defect in ordinary electric toaster may be due to

(A) timer and relay
(B) heating element
(C) both (i) and (ii)
(D) None of these

**8.** In which of the following electric motor is not used ?

(A) induction heater
(B) automatic electric toaster
(C) ordinary electric kettle
(D) All of these

**9.** For obtaining high heat the two elements of room heater are connected in

(A) Parallel
(B) Series
(C) (i) or (ii)
(D) None of these

**10.** Motor used in heat convector is

(A) Capacitor start and shaded pole motors
(B) Universal motor
(C) Split-phase motor
(D) None of these

**11.** Timer and relay is used in

(A) blower type room heater
(B) heat convector
(C) both (i) and (ii)
(D) None of these

**12.** Fault in cooler may be due to

(A) earthed cooler body
(B) shorted motor winding
(C) both (i) and (ii)
(D) None of these

**13.** How many motors are used in a desert cooler ?

(A) One
(B) Two
(C) One or Two
(D) Any number

**14.** Cage rotor is used in

(A) Capacitor start motor
(B) Shaded pole motor
(C) Both (i) and (ii)
(D) None of these

**15.** Which of the following is not a part of the construction of a ceiling fan motor ?

(A) Stator
(B) Rotor
(C) Capacitor
(D) Centrifugal switch

## Section B

*Answer any 10 questions.*

**16.** Describe the method of testing and repairing of a defective electric stove.

**17.** Describe the testing and repairing of a defective ordinary electric toaster.

**18.** Describe the construction of an automatic toaster.

**19.** Describe the procedure of testing of a defective geyser.

**20.** Describe the procedure of testing of a defective ordinary electric kettle.

**21.** Describe the construction of the motor used in ceiling fan.

**22.** Describe the method of installation of a bracket fan.

**23.** Describe the construction of a washing machine.

**24.** Describe the construction and working of a curler.

**25.** Describe working of a vacuum cleaner and give its uses.

**26.** What is earthing ? Explain why it is necessary to earth an electric hand drill machine.

**27.** How a person gets electric shock ? Explain.

## Section C

*Answer any 3 questions.*

**28.** Explain in detail the various defects in an electric mixer.

**29.** Explain the construction and working of a blender.

**30.** Explain the procedure of testing and repairing of a defective emergency light.

**31.** Describe the construction of a two-speed motor.

**32.** Describe the working principle of a split-phase motor. How many windings it have ? give their names.

**- End of Question Paper -**