

CBSE Class 12 Electronic Technology 2023 - Set 344



Question Paper

Conducted by the Central Board of Secondary Education (CBSE)

Time Allowed: 3 Hours

Maximum Marks: 60

General Instructions

- (i) Please read the instructions carefully.
- (ii) This question paper consists of 24 questions in two Sections: Section A and Section B.
- (iii) Section A has Objective Type Questions whereas Section B contains Subjective Type Questions.
- (iv) Out of the given $(6 + 18) = 24$ questions, a candidate has to answer $(6 + 11) = 17$ questions in the allotted maximum time of 3 hours.
- (v) All questions of a particular section must be attempted in the correct order.
- (vi) Section A: Objective Type Questions (30 marks). This section has 6 questions. There is no negative marking. Follow the instructions given; marks are mentioned against each question/part.
- (vii) Section B: Subjective Type Questions (30 marks). This section has 18 questions; answer 11. Follow the instructions given; marks are mentioned against each question/part.

Section A

1. Answer any 4 questions out of the given 6 questions. $4 \times 1 = 4$

1(i). Name any two softwares used for creating presentations.

1(ii). How will you usually align the title of a slide ?

- | | |
|------------|-------------|
| (A) Left | (B) Right |
| (C) Center | (D) Justify |

1(iii). _____ is a state of feeling upset and hopeless.

- | | |
|----------------|----------------|
| (A) Aggression | (B) Stress |
| (C) Happiness | (D) Motivation |

1(iv). Which type of motivation is associated with activities that are enjoyable in themselves ?

1(v). Which of the following is **not** a type of entrepreneur ?

- | | |
|----------------|---------------------|
| (A) Service | (B) Business |
| (C) Industrial | (D) Last generation |

1(vi). Why do entrepreneurs require persistence as one of the competencies to succeed ?

2. Answer any 5 out of the given 7 questions. $5 \times 1 = 5$

2(i). Define electric shock.

2(ii). Why do accidents occur in industries ?

2(iii). Write the names of any two protective equipments.

2(iv). Touching of metal objects with induced high RF voltage level can cause _____.

2(v). Which type of fire extinguisher is to be used on electrical equipments used under fire ?

2(vi). Write the names of any one psychological hazard.

2(vii). What do you mean by anticipation ?

3. Answer any 6 out of the given 7 questions. $6 \times 1 = 6$

3(i). By whom is the carbon microphone invented ?

3(ii). In which loudspeaker is diaphragm not used ?

3(iii). The horn type loudspeaker is more efficient than the cone type loudspeaker. (True/False)

3(iv). Magnet of moving coil cone type loudspeaker is made of _____.

3(v). Which microphone works on the principle of Faraday's law ?

3(vi). Woofer is meant for _____ frequencies.

3(vii). Write advantages of crystal microphone.

4. Answer any 5 out of the given 6 questions.
 $5 \times 1 = 5$

4(i). What is the diameter and thickness of a CD ?

4(ii). What is the full form of DVD ?

4(iii). In digital recording, which circuit converts analog signal into digital signal ?

4(iv). Glass master, which is a step of CD/DVD manufacturing is also called stamper. (True/False)

4(v). Which microphone is used in household tape recorders ?

4(vi). What do you mean by dynamic range ?

5. Answer any 5 out of the given 6 questions.
 $5 \times 1 = 5$

5(i). What is the full form of NTSC ?

5(ii). In a TV receiver, the frequency of oscillator in RF tuner is variable. (True/False)

5(iii). The signal to the TV picture tube is taken from _____.

5(iv). What does saturation indicate ?

5(v). The television picture tube magnetic field can be used for _____.

5(vi). What is the range of TV remote control ?

6. Answer any 5 out of the given 6 questions.
 $5 \times 1 = 5$

6(i). Which type of paper is used in a FAX machine ?

6(ii). In which year was the telephone invented ?

6(iii). What is the output supply of battery eliminator ?

6(iv). What is the full form of DMP ?

6(v). What do you mean by Tuner ?

6(vi). The drum is a _____ cylinder.

Section B

Answer any 3 questions out of the given 5 questions on Employability skills. Answer each question in 20 – 30 words. $3 \times 2 = 6$

7. Write any two features of spreadsheet application.

8. Write any four barriers which an entrepreneur has to face.

9. What are the various organisational skills required to become a successful entrepreneur ?

10. What do you mean by Paranoid disorder ?

11. Suggest any two techniques that can help us to maintain a positive outlook in the long run.

Answer any 3 out of the given 5 questions in 20 – 30 words each. $3 \times 2 = 6$

12. What do you mean by occupational diseases ? Name some of them.

13. Write a short note on woofer.

14. Write any two faults which occur in head-end subsection.

15. Write the advantages of LED TV.

16. Write the possible solution for a scanner when it is not moving.

Answer any 2 out of the given 3 questions in 30 – 50 words each. $2 \times 3 = 6$

17. Write the merits and demerits of a carbon microphone.

18. What do you mean by analog and digital sound recording ?

19. Write the special features of HD TV.

Answer any 3 out of the given 5 questions in 50 – 80 words each. $3 \times 4 = 12$

20. Write a short note on protective equipments.

21. Explain the construction and working of moving coil microphone.

22. Draw the block diagram of a Tape recorder and explain its working.

23. With the help of a diagram explain the working of a TV receiver.

24. Explain the working principle of microwave oven with the help of a block diagram.

- End of Question Paper -