CBSE Class 12 Electronic Technology 2020 - Set 344

Question Paper

Conducted by the Central Board of Secondary Education (CBSE)

Time Allowed: 3 Hours **Maximum Marks: 60**

General Instructions

(i) Read the instructions carefully. This paper has two sections: Employability Skills and Subject Skills.

(ii) Answer any 4 of Questions 1–6 and any 3 of Questions 7–11 in Section A (10 marks).

(iii) In Section B (50 marks), answer any 10 of Questions 12–23, any 5 of Questions 24–30, any 5 of Questions 31–37, and any 3 of Questions 38–42.

(iv) Attempt questions of each part in the correct order. Follow the choices and marks shown with each group of questions.

Section A

Answer any 4 questions out of the given 6 questions of 1 mark each. 1×4=4

1. What is article writing ?

2. How do expensive thoughts motivate us ?

3. What do you mean by paranoid ?

4. What do you mean by greenhouse emission ?

5. What is self-awareness ?

6. What do you mean by a Presentation in Presentation Software ?

Answer any 3 questions out of the given 5 questions of 2 marks each. 2×3=6

7. What are the tips to become an active listener ?

8. What are the sources of inspiration ?

9. How are jobs increasing in green jobs industries ?

10. How can a student make himself better in a special class ?

11. How can you save a Presentation in a Presentation Software ?

Section B

Answer any 10 questions out of the given 12 questions of 1 mark each. 1×10=10

12. Which of the following microphones works on the principle of Faraday's law ?

(A) Condenser
(B) Electret
(C) Moving Coil
(D) Carbon

13. The material used for the magnet of moving coil loudspeaker is

(A) Steel alloy
(B) Soft iron
(C) Hard steel
(D) Alnico

14. A horn is used in a loudspeaker

(A) To improve its impedance
(B) To improve the high frequency response
(C) For better coupling of sound into air
(D) All of the above

15. Horn type loudspeaker is the obvious choice for public address in a large open area.

(A) True
(B) False

16. The storage capacity of a CD is

(A) 360 KB
(B) 700 MB
(C) 540 KB
(D) 540 MB

17. The thickness of a CD is

(A) 1·4 mm
(B) 0·6 mm
(C) 0·8 mm
(D) 1·2 mm

18. Biasing would not be required if B-H curve were linear.

(A) True
(B) False

19. A TV Remote Control works on the principle of

(A) Pulse code modulated ultraviolet light
(B) Demodulation
(C) Pulse code modulated infrared light
(D) Either (A) or (B)

20. What is the full form of NTSC ?

21. A photosensitive drum is used in a _____.

22. As compared to other audio storage media, a compact disc has lower signal-to-noise ratio.

(A) True
(B) False

23. DVD stands for _____.

Answer any 5 questions from the given 7 questions of 2 marks each. 2×5=10

24. Write a short note on woofer.

25. Write advantages and disadvantages of capacitance microphone.

26. Why is ADC used in CD Recording system ?

27. Explain the function of a Keyed AGC in a TV Receiver.

28. Write advantages of LED TV.

29. Write any two possible problems which occur in Head-end Subsection.

30. What do you understand by DTMF and where is it used ?

Answer any 5 questions from the given 7 questions of 3 marks each. 3×5=15

31. Explain different kinds of hazards in industries.

32. What is a Compact Disc ? Write its advantages and disadvantages.

33. Discuss the working principle of a Tape recorder.

34. Explain the working principle of a Remote Control of a TV Receiver.

35. Write general causes of failure of a TV Receiver.

36. What do you understand by brightness, contrast, and luminance ?

37. Write some possible faults of a Printer and their solutions.

Answer any 3 questions from the given 5 questions of 5 marks each. 5×3=15

38. Write a note on provisions and benefits of safety.

39. Explain the construction, working principle and applications of a moving coil loudspeaker.

40. What do you understand by Analog Sound recording and Digital Sound recording ? Explain with block diagram.

41. Explain the working of a fax machine with the help of a block diagram.

42. With the help of a block diagram, explain the working of a TV Receiver.

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