

(6 pages)

Reg. No. :

Code No. : 20047 E Sub. Code : CSPH 41

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2025

Fourth Semester

Physics

Skill Based Subject — MAINTENANCE OF
ELECTRONIC APPLIANCES

(For those who joined in July 2021 and 2022 only)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. The device which is used to measure current and voltage is _____
- (a) Voltmeter (b) Ammeter
(c) Potentiometer (d) Flux meter

2. The material used in soldering is
- (a) Copper (b) Zinc
(c) Water (d) Wax
3. Multimeter is a _____ instrument.
- (a) Multipurpose (b) Analog
(c) Digital (d) Current
4. In a CRO the time/Div button is used to measure
- (a) Voltage (b) Resistance
(c) Frequency (d) None
5. The transducer which needs an external power supply for its operation is called _____
- (a) Active transducer
(b) Passive transducer
(c) Inactive transducer
(d) Capacitive transducer
6. Active transducers work on the principle of _____
- (a) Energy conversion (b) Mass conversion
(c) Energy alteration (d) Volume conversion

7. The antenna is a conductor that radiates or intercepts _____ wave energy.
(a) Electrochemical (b) Electrical
(c) Mechanical (d) Electromagnetic
8. The heart of mobile communication system is
(a) Base terminal station
(b) Base station controller
(c) Mobile switching center
(d) None of the above
9. The aperture of a camera lens controls the
(a) Image sharpness
(b) Depth of field of an image
(c) Amount of light reaching the sensor
(d) All the above
10. Before images are transferred to the memory card, they are stored in the
(a) Sensor
(b) Buffer
(c) Secondary memory card
(d) None of the above

PART B — (5 × 5 = 25 marks)

Answer ALL questions by choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Outline the resistor – colour coding.
Or
(b) Describe the soldering and desoldering techniques.
12. (a) Explain the practical uses of multimeter.
Or
(b) Describe the XY mode Lissajons figure.
13. (a) Give the basic requirements of a transducer.
Or
(b) Explain the working of a light transducer.
14. (a) Explain the basic concepts of dish antenna.
Or
(b) Describe about Mobile phone.

15. (a) Write the parts of camera and accessories.

Or

(b) Write about digital data transfer from a digital camera to computer.

PART C — (5 × 8 = 40 marks)

Answer ALL questions by choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Describe the various types of resistors.

Or

(b) Explain about grove board and bread board.

17. (a) Explain the working of CRO.

Or

(b) Explain the working of LCD.

18. (a) Describe the classification of transducers.

Or

(b) Explain the action of a piezoelectric transducer.

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19. (a) Outline the basic concepts of TV antenna.

Or

(b) What is ISDN? Explain the network arrangements in ISDN.

20. (a) Explain the various elements of flash photography.

Or

(b) Explain ISO speed and resolution.

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