(6 pages) Reg. No.:	2. The material used in soldering is
Code No.: 10464 E Sub. Code: CSPH 41	(a) copper (b) zinc (c) water (d) wax
B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2024. Fourth Semester	3. Multimeter is a — instrument.  (a) multipurpose (b) analog  (c) digital (d) current
Physics Skill Based Subject — MAINTENANCE OF ELECTRONIC APPLIANCES	4. The insulation of wiring can be tested with  (a) multimeter (b) gauss meter  (c) watt meter (d) megger
(For those who joined in July 2021-2022) Time : Three hours	<ul> <li>5. The transducer which needs an external power supply for its operation is called</li></ul>
Answer ALL questions.  Choose the correct answer.	(c) inactive transducer (d) capacitive transducer
<ol> <li>Which one of the following is a passive component?</li> <li>(a) resistor</li> <li>(b) vaccum triode</li> <li>(c) transistor</li> <li>(d) diode</li> </ol>	6. Active transducers work on the principle of  (a) energy conversion (b) mass conversion (c) energy alteration (d) volume conversion

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- 7. The antenna is a conductor that radiates or intercepts wave enrgy.
  - (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

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PART B —  $(5 \times 5 = 25 \text{ marks})$ 

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

Each answer should not exceed 250 words.

11. (a) Outline the resistor - colour coding.

Or

- (b) Compare grove board and bread board.
- 12. (a) Outline the measurement of voltage.

Or

- (b) Describe the XY mode lissajons figures.
- 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 radio transmitter.

Or

- (b) Describe about dish antenna.
- 15. (a) Write the parts of camera and accessories.

Or

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

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[P.T.O.]

PART C —  $(5 \times 8 = 40 \text{ marks})$ 

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

Each answer should not exceed 600 words.

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

Or

- (b) Describe how printed circuit board is prepared and used.
- 17. (a) What is a multimeter? How does it work?
  Or
  - (b) Describe the construction and working of LCD displays of instruments.
- 18. (a) Describe the classification of transducers.

Or

- (b) Explain the action of a piezoelectric transducer.
- 19. (a) Outline the basic concepts of radio receiver.

Or

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

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

Or

- (b) Explain:
  - (i) ISO speed and
  - (ii) Resolution in the context of digital photography.

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