(6 pa	ges)									
Reg. No. :										
Cod	le N	o.: 30464 E	Su	Sub. Code : CSPH 41						
B.Sc. (CBCS) DEGREE EXAMINATION, NOVEMBER 2024.										
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 — $(10 \times 1 = 10 \text{ marks})$										
Answer ALL questions.										
Choose the correct answer:										
1.	stores charge.									
	(a)	Capacitors	(b)	Resistors						
	(c)	Both (a) and (b)	(d)	None of the above						
2.	What is the SI unit of resistance?									
	(a)	$\mathrm{Ohm}\left(\Omega\right)$	(b)	Ampere						
- W - I	(c)	Coulomb	(d)	Meter						
				= F: V = -						

Less than 1 MHz (b) More than 1 MHz More than 10 Hz More than 10 MHz (d) A Lissajous patterns are used to measure Voltage and frequency Frequency and phase shift (b) (c) Frequency and amplitude distortion Amplitude and flux (d) Piezoelectric transducer is used for measuring Non electrical quantities Electrical quantities Chemical quantities (c) None of the above With the increase in the intensity of light, the

Decreases

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None of the above

resistance of photovoltaic cell

Increases

Remains same

(a)

The signal frequency in CRO is

3.

	(a)	Modern electronic machine		Answer ALL questions choosing either (a) or (b). Each answer should not exceed 250 words.		
	(b)	Modulator and demodulator		4.4	(-)	How to soldering and desoldering? Explain
	(c)	Modulator and convertor	er., 34°	11.	(a)	it.
	(q)	Modern development machine				Or
8.	Cell	phone communication is a			(b)	What is star and delta connection of resistors and capacitors?
	(a)	Full simplex (b) Full duplex		12.	(a)	Describe the measurement of resistance and
	(c)	Simplex (d) Half simplex		12.	(α)	voltage using multimeters.
	***	3. 3. 6				Or
9.	ISO	number in film			(b)	Explain about waveforms and Lissajolle's
	(a)	Film speed rating		t: 2		figures.
	(b)	Quality standard number	* * * * * * * * * * * * * * * * * * *	13.	(a)	Discuss about photo resistors.
	(c)	Internal system number				Or
	(d)	Aperture order number	9		(b)	Discuss about photovoltaic cells.
10.	A di	gital image is made up of thousands of		14.	(a)	What is the difference between dish antenna and DTH system?
	(a)	Pixels (b) Bitmap			4	Or
	(c)	Resolution (d) Vector images			(b)	Comparison between telephone and cellular telephone.
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PART B —  $(5 \times 5 = 25 \text{ marks})$ 

What is the meaning of MODEM?

15. (a) Write short notes about Lens shutter and aperture.

Or

(b) Explain about filters.

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) Explain different types of resistors and write down its characteristics.

O

- (b) Explain different types of capacitors and write down its characteristics.
- 17. (a) Draw the block diagram of CRO. Explain the principle and operation of CRO.

Or

- (b) Explain the working theory of A/F and R/F oscillators.
- 18. (a) Discuss about characteristics of transducers and explain its basic requirements.

Or

(b) Explain different types of transducers. Write in detail about the classification of transducers.

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19. (a) Explain with the neat sketch the basic concepts of radio transmitter and receiver.

Or

- (b) Describe the principle and operation of mobile phone.
- 20. (a) Describe with a neat diagram, parts of camera and accessories.

Or

(b) Explain the working theory of flash photography.

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