			(c)	(c) Current acceptability of a voltage			
B.Sc. (CBCS) DEGREE EXAMINATION, NOVEMBER 2023.			(d) Opposition to voltage flow				
	Third Semester	3.		The open circuit test in a transformer is used to measure.			
Physics — Skill Based Subject			(a)	Copper loss			
MAINTENANCE OF ELECTRICAL APPLIANCES			(b)	Winding loss			
(For those who joined in July 2020 only)			(c)	Total loss	٠.		
			(d)	Core loss			
		4.	4. Which of the following does not change in a transformer?				
	PART A — $(10 \times 1 = 10 \text{ marks})$		(a)	Current	(b)	Voltage	
	Answer ALL questions.		(c)	Frequency	(d)	All of the above	
1.	Choose the correct answer:	5.	5. Which gas is used for filling electric bulbs?				
	The resistance of a conductor is inversely proportional to its		(a)	Neon	(b)	Chlorine	
	(a) Length		(c)	Halogen	(d)	Argon	
	(b) Supply length	6.	The main application of indirect are furnace is to melt.				
	(c) Types of supply		(a)	Iron	(b)	Steel	
	(d) Cross - Sectional Area		(c)	Non-ferrous meta	l (d)	None of these	
7.	In pure inductive circuit the power is ———.		PART B — $(5 \times 5 = 25 \text{ marks})$			5 marks)	
	(a) Infinite		Answer ALL questions, choosing either (a) or (b).				
	(b) Maximum		Each answer should not exceed 250 words.				
	(c) Zero		(a) Write a short note on resistance and types.				
	(d) Minimum	11.	11. (a) Write a short note on resistance and types.				
8.	Pure capacitance circuit the power is ———.			Oı	ſ		
	(a) Infinite		(b)	Short note on capa	acitaı	nce and application.	
	(b) Maximum	12.	(a)	Write five uses of	trans	sformer	
	(c) Minimum	12.	,(a)			normer.	
	(d) Zero			Oı	r		
9.	The content resistance of a manually operated switch is		(b)	Write a short transformer.	note	e on application of	
	(a) Zero	19	(a)	Explain about the	fluo	rescent lamps.	
	(b) Very high	13.	(a)		•	tobcom ramps.	
	(c) Very low			O:	r		
	(d) None of the above		(b)	Explain about the	wate	er heater.	
10.	Which switch should have ———.	A CONTRACTOR OF THE PARTY OF TH		Short note on AC	and l	DC circuits.	
	(a) High insulation resistance	14.	(a)				
	(b) Low insulation resistance			·O			
	(c) Insulation resistance equal to content resistance		(b)	Explain about the	RMS	S peak values.	

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None of the above

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Sub. Code: ASPH 31

Resistance can be described as the

Opposition to current flow

Resist rate of the voltage

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[P.T.O.]

(b)

15. (a) Write a short note on circuit breakers.

Or

(b) Write any five uses of UPS.

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 about the types of resistance and application.

Or

- (b) Briefly explain about the galvanometer and working principle and application.
- 17. (a) Explain the principle and working construction of transformer.

Or

- (b) Explain about the classification of transformer.
- 18. (a) Briefly explain about the electric bulbs and fluorescent lamps.

Oı

(b) Explain about the wet grinder and mixer.

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19. (a) Explain about the AC and DC electrical circuits.

Or

- (b) Explain about the short circuit.
- (a) Explain about the electrical switch and construction and working.

Or

(b) Brief explain about the UPS.

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