## 2024

## **PHYSICS**

## B.Sc. First Semester End Examination - 2024 PAPER - SEC-101T

Full Marks: 20

Time: 1 hour

The figures in the right-hand margin indicate marks. Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

## Group - A

1.	Answer	any	five	questions	out of	eight 'eigh	questions	given.
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		2×5=10
a)	State Ohm's law.	2
b)	How can multimeter be used as a volmeter?	2
c)	What is the use of function generator?	2
d)	How can one construct a voltmeter using an ar	nmeter?2
e)	How does frequency of wave is measured by	CRO? 2
		(Turn Over)

	f)	What are the advantages of Breadboard?	2
	g)	What do you know by transistor and what is its use?	2
	h)		ng 2
		Group - B	
Ansv	wer	any two questions out of four questions given.	
		5×2=1	0
2.	(i)	How an ammeter and a voltmeter are connected in a electrical circuit? Explain with circuit diagram. 3+	_
	(ii)	Draw and write the colour code for the resistance (47 ohm) and $(0.56 \pm 10\% \text{ ohm})$	70
3.	Giv	e block diagram of Cathode Ray Oscilloscope.	5
4.		scuss on different types of error coming from a eriment.	an 5
5.	(i)	What do you know about IC chip?	
	(ii)	Write down the measurement function of a multimeter	er.

2+3

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2.

3.

4.

5.