PHYSICS (Practical)

Time Allowed : 3 Hrs.

Max. Marks 25

3

- Note : (1) The candidates will tick mark (✓) two experiments from each section A and B. The Practical examiner will allot one experimental question from each Section A and B to the candidate out of marked questions.
 - (2) The candidate will tick mark (✓) three activity questions from each Section A and B. The examiner will allot two activity questions from each Section A and B.
 - (3) Section C is compulsory.

a fuse and a power source.

- (4) Log tables will be supplied on demand.
- (5) Any change from allotted experimental question will cost (two) 2 marks.
- (6) Any change from allotted activity question will cost (one) 1 mark.
- Note : The candidates are required to attempt either one experimental question (or) two activity questions from each Section A and B.

Section-A

Q1.	To verify laws of combination (Series / parallel) of resistance using a metre brid	lge. 6		
Q2.	To compare the e.m.f.'s of two given primary cells using potentiometer.	6		
Q3.	To determine resistance per cm of a given wire by plotting a graph of potential difference versus current.	l 6		
Q4.	To find the frequency of a.c. mains with Sonometer.	6		
Q5.	To determine resistance of a galvanometer by half-deflection method and to find figure of merit.	l its 6		
	ACTIVITIES			
Q1.	To assemble the components of given electrical circuit.	3		
Q2.	To measure the resistance and impedance of an inductor with or without iron co	ore. 3		
Q3.	To study the variation in potential drop with length of a wire for a steady curre	ent. 3		
Q4.	To assemble a household circuit comprising three bulbs, three (on/off) switches	5,		

Q5. To measure resistance, voltage (AC/DC), current and check the continuity of given circuit using multimeter. 3

Section-B

Q6. To find the focal length of convex mirror using convex lens.	6		
Q7. To find the value of V for different values of U in case of concave mirror and the focal length.	find 6		
Q8. To determine the refractive index of a glass slab using a travelling microscop	e.6		
Q9. To draw the I-V characteristic curve of a p-n junction in forward bias and rev bias.	verse 6		
Q10. To draw the characteristic curves of zener diode and to determine its reverse breakdown voltage.	6		
ACTIVITIES			
Q6. To observe polarization of light using two polaroids.	3		
Q7. To observe diffraction of light due to thin slit.	3		
Q8. To obtain a lens combination with the specified focal length by using two len from the given set of lenses.	ises 3		
Q9. To study the effect of intensity of light (by varying distance of source) on L.	D.R. 3		
Q10. To study the nature and size of the image of a candle formed by a concave mirror on screen.	3		
Section-C			
Q11. Practical record of experiments and activities (Note-Book)	5		
Q12. Investigatory Projects : (a) Records (b) Viva - Voce	2 2		

Q13. Viva - Voce on experiments and activities. 2, 2