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PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2025

(Sixth Semester)

Branch - ELECTRONICS

	T	ime: Three Hours	Maximum: 50 Marks	
	SECTION-A (5 Marks) Answer ALL questions ALL questions carry EQUAL marks (5 x 1 = 5)			
	1.	Which of the following is the component of lead a i) Container ii) Plates iii) Separator iv) All are container iii) Separator iv)	acid battery?	
	2.	i) Magneto ignition system has a poor quality of spark during starting ii) Magneto ignition system has a poor quality of spark during starting ii) Magneto ignition system occupies more space iii) Magneto ignition system has more maintenance problems iv) Magneto ignition system is used largely in four wheels		
	3.	Crankshafts are usually constructed by i) Casting ii) Drop forgi iii) Drawing iv) Extrusion	ng	
	4.	What are the types of Multi-Point Fuel Injection S i) port injection ii) throttle I iii) port & throttle body injection iv) none of	oody injection	
		In modern vehicles, the headlight dimming switch i)Dashboard ii)Floor iii)Side panel iv)Steering co		
	SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)			
6.	a.	Write few purposes for the usage of battery. OR		
	b.	-		
7.	a.	How is direct ignition used in automotive? OR		
	b.	Define the function of distributor less ignition sy	stem.	
3.	a.	How does a crankshaft position sensor work? OR		
	b.	What is the throttle angle?		
),	a.	What are the types of fuel control units? OR		
	ъ.	What is the use of electronic fuel injection?		
0.	a.	Define connectors. OR		
	h	Define earth return system.		

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SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a. Discuss the working principles of starter motor types, construction and characteristics with a neat diagram.

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- b. Explain in detail about charging system with a neat diagram.
- 12 a. Draw a neat diagram and explain the working principles of electronic ignition systems.

OR

- b. Explain the transistor ignition system.
- 13 a. Discuss in detail the exhaust oxygen sensor.

OR

- b. Briefly explain the characteristics of the air flow rate sensor.
- 14 a. Discuss the merits and demerits of the electronic fuel injection system.

OR

- b. Explain the power train control model.
- 15 a. Discuss in detail about head light and side light.

OR

b. Explain the wipers system and trafficator fuses.

Z-Z-Z

END