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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

SIXTH SEMESTER B.TECH DEGREE EXAMINATION, APRIL 2018

Course Code: AU 302 Course Name: AUTOMOTIVE ELECTRICAL AND ELECTRONICS (AU)

Max. Marks: 100 Duration: 3 Hours

		PART A) (1
		Answer any three full questions, each carries 10 marks.	Marks
1	a)	What is Rectification in a Charging system?	(3)
	b)	Explain about half-wave and full wave rectification with neat sketch.	(7)
2	a)	What are the effects of temperature on electrolyte of an automobile battery?	(4)
	b)	Explain about Voltage and Current Regulation.	(6)
3		Explain the constructional details of Lead Acid battery with necessary	(10)
		sketches.	
4		Explain with a neat sketch the construction and operation of any two starting	(10)
		drives used in automobile starting system.	
		PART B	

Answer any three full questions, each carries 10 marks.

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- 5 a) Explain about the spark plug and its constructional details (5)
 - b) With a neat sketch Explain the working of an electric horn. (5)
- 6 Describe a high tension magneto ignition system with figure and state its (10)advantages and disadvantages.
- 7 Draw a simplified wiring circuit for a typical passenger car lighting system and (10) discuss the same
- 8 Explain the working of Electronically assisted ignition system with a neat (10) diagram.

PART C

Answer any four full questions, each carries 10 marks.

- 9 Explain about the application of position and lambda sensors used in automobile (6) with neat sketches.
 - Explain about the function of wheel speed sensors with neat sketch. (4)

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10	With the help of a diagram explain the working of MPFI and TBI system.	(10)		
11	Explain the working of K- Jetronic fuel injection system with a neat layout.	(10)		
12	Explain the over view of CRDI system with necessary figures.	(10)		
13	Explain the principle of engine coolant temperature sensor with neat figure.	(10)		
14	Explain the working principle of Variable reluctance sensor with an example	e. (10)		

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