Reg No.: Name:	
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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Fifth Semester B.Tech Degree Examination (Regular and Supplementary), December 2020

Course Code: AU305 **Course Name: VEHICLE MAINTENANCE**

Max. Marks: 100 **Duration: 3 Hours PART A** Answer any three full questions, each carries 10 marks. Marks 1 What do you mean by Job card and Service History? Explain with suitable (10)examples. 2 What are the methods of starting a starting service station? (4) Draw the layout of Road side service station indicating various departments (6) 3 What is the importance of tappet clearance? How it is adjusted? Explain (8) a) b) What is decarbonizing of cylinder head? (2) 4 What is the difference between OBD I and OBD II? (3) a) b) How modern cars equipped with OBD will be analysed and services with scan (7) tool? PART B Answer any three full questions, each carries 10 marks. 5 a) What are the various diagnostic tests conducted on AC Mechanical Fuel Pump? (4) Explain briefly. b) How the injector is tested for proper functioning? Explain. (6) 6 What is the importance of FIP calibration? How it is done in inline Jerk pump (7) system? Explain. b) What are the possible causes for engine does not crank? (3) What are the various ill effects of loose fan belt tension? 7 (2)

- b) What are the various steps involved in servicing of radiator? Explain. (8)
- 8 What are the various methods used for leak detection in an Air conditioning (10)system? Explain.

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PART C Answer any four full questions, each carries 10 marks.

9		Explain the steps involved in major overhauling of a single plate clutch.	(10)
10		What is the importance of backlash in a differential? How it is carried out?	(10)
		Explain with relevant sketches.	
11	a)	How the repair of tubeless tire is carried out?	(4)
	b)	What do you mean by retreading? Explain how cold retreading process is	(6)
		carried out.	
12		What are the various methods of adjusting headlights? Explain them briefly.	(10)
13		What are the various steps involved in maintenance of lead acid battery?	(10)
		Explain briefly.	
14	a)	What is the importance of tuning of horn? How it is carried out?	(5)
	b)	What is the importance of regulator setting? How it is done?	(5)
