Reg No.:_____

Name:_____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Fifth semester B.Tech degree examinations (S) September 2020

Course Code: AU402 Course Name: TWO AND THREE WHEELERS

Max. Marks: 100

Duration: 3 Hours

PART A

		Answer any three full questions, each carries 10 marks.	Marks
1	a)	Explain the symmetrical port timing with the help of diagram.	(5)
	b)	Discuss the advantages and disadvantages of SI engine over CI engine.	(5)
2	a)	What do you mean by scavenging?	(2)
	b)	Explain any two types of scavenging process with suitable sketches.	(8)
3	a)	With the help of neat sketches explain splash and pump lubrication system.	(8)
	b)	What are the advantages of lubrication system?	(2)
4		With the help of neat diagram, explain flywheel magneto system. What are the	(10)
		advantages of CDI?	

PART B

Answer any three full questions, each carries 10 marks.

5	a)	What are the requirements of good clutch?	(4)
	b)	Explain the construction details of centrifugal clutch with sketch.	(6)
6		What is the purpose of gear box? Explain the construction and working of	(10)
		constant mesh gear box with neat sketch.	
7	a)	Explain the rear suspension used in three wheelers with sketch.	(6)
	b)	Explain the construction details of chain drive.	(4)
8		Explain diamond frame and cradle frame with suitable sketches.	(10)
		PART C	
		Answer any four full questions, each carries 10 marks.	
9	a)	With the help of neat cross section explain conventional tyre with tube.	(6)
	b)	Describe the components of cast wheel with the aid of sketch.	(4)
10		With the help of neat diagram explain directional indicators layout for three	(10)

With the help of neat diagram explain directional indicators layout for three (10) wheelers.

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11	a)	What is the importance of steering geometry?	(2)
	b)	State the advantages of perfect steering geometry.	(2)
	c)	Explain Caster angle and king pin inclination.	(6)
12		Explain various components of a two wheelers with the help of a diagram.	(10)
13	a)	How two wheelers are classified?	(5)
	b)	List out the maintenance steps following for daily inspection before going on	(5)
		for drive in the case of a two wheeler.	
14	a)	Explain the features of pick up van with suitable diagram.	(7)
	b)	What is running in period and state its importance.	(3)
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