

USN

18AU55

Fifth Semester B.E. Degree Examination, June/July 2023 Automotive Transmission

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Note: Answer any FIVE jun questions, choosing 51/2 jun 4			
4	_	Module-1 Discuss in in detail the requirements of a clutch.	(10 Marks)
1	a.	Explain with neat sketch the working of a hydraulic clutch operation.	(10 Marks)
	b.	Explain with heat sketch the working of a my service	
		OR	
		With a suitable figure discuss in detail the working of a single plate clutch.	(10 Marks)
2	a.	With a suitable figure discuss in detail the working of a single plane	(10 Marks)
	b.	Describe with neat sketch the working of a vaccum operated clutch.	•
		M. II. 2	
		Module-2	(10 Marks)
3	a.	With a neat sketch discuss the working of a fluid flywheel.	(10 Marks)
	b.	Explain Sprag clutch, ball and roller one way clutch with relevant sketches.	(20 11211)
		A P	
		OR	(10 Marks)
4	a.	Discuss in detail the working of a torque converter with relevant sketch.	(10 Marks)
	b.	Discuss in detail the working fluid requirements.	(10 Marks)
	0.	Y. Carlotte and the second sec	
		Module-3	(10 Marks)
5	a.	With a neat sketch explain the working of a constant – mesh gearbox. With a neat sketch explain the working of a constant – mesh gear with relevant figures.	(10 Marks)
5	b.	With a neat sketch explain the working of a consume throughout the performance characteristics in different gear with relevant figures.	(10 Marks)
	υ.	Describe the period	
		OR	(10 Mandra)
		Discuss in detail the various resistances to motion of the automobile.	(10 Marks)
6	a.	" -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	(10 Marks)
	b.	Describe with near sketch the	
		Module-4	
		to the Grand applies the working of over drives.	(10 Marks)
7	a.	a 1 1 - I Wildow Dianetary Hallshill Shift Suitable 0	(10 Marks)
	b	Describe the working of whishir landsury	
		OR	
		Explain the Ford – T gear box with suitable sketch.	(10 Marks)
8		- · · · · · · · · · · · · · · · · · · ·	(10 Marks)
	b	Discuss the Pre-selective incommism with savar-	
		Module-5	
		lying of constant displacement numb.	(10 Marks)
9) a	Describe with neat sketch the working of constant displacements. Discuss the advantages, disadvantages and applications of variable displacements.	it motor.
	t	Discuss the advantages, disadvantages and appreciate	(10 Marks)
OR			
		A land Dorgo Warner gear box	(10 Marks)
1		the table the fundamentals of a five fault control system.	(10 Marks)
		b. Discuss with neat sketch the fundamentals of a hydrausic	

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2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice. Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.