15AU64

Sixth Semester B.E. Degree Examination, July/August 2021 Automotive Transmission

Time: 3 hrs.

Max. Marks: 80

Note: Answer any FIVE full questions.

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1	a.	List and explain the requirement of a good clutch.	(08 Marks)
	b.	Explain the principle and working of a single plate clutch with neat sketch.	(08 Marks)
2	a.	Compare single plate clutch Vs Multiplate clutch.	(06 Marks)
	b.	List and explain the clutch troubles and their causes.	(10 Marks)
3	a.	Discuss the constructional features of a fluid coupling with line diagram.	(08 Marks)
	b.	Explain the working of a overrunning clutch with figure.	(08 Marks)
1	a.	Discuss the fluid requirements for smooth functioning of a fluid coupling.	(06 Marks)
	b.	Explain the working of any one type of Torque converter.	(10 Marks)
5	a.	Explain the various resistances acting on a vehicle with graphs and equations.	(08 Marks)
	b.	Explain the following terms : i) Traction	
		ii) Tractive effort	
		iii) Draw bar pull iv) Gradiability.	(08 Marks)
6	0	Discover the mood of some how in outcome hits.	
6	a. b.	Discuss the need of gear box in automobiles. Explain the construction and working of a constant mesh gear box with figur	(04 Marks) e. State the
		advantages.	(12 Marks)
7	a.	Explain the working principle of a simple planetary transmission system with figure	are.
	1	Explain the following towns:	(08 Marks)
	b.	Explain the following terms: i) Preselective mechanism	
		ii) Vacuum control.	(08 Marks)
8	a.	Discuss the principle of hydraulic control in planetary gear system.	(08 Marks)
	b.	Illustrate the working of a overdirve system with figure.	(08 Marks)
9	a.	Explain the different systems of hydrostatic drives.	(08 Marks)
	b.	Explain the advantages and limitations of hydrostatic drives.	(08 Marks)
10	0	Discuss the principle of outernatic transmission	(0 (M l -)
10	a. b.	Discuss the principle of automatic transmission. Explain the construction and working of a basic four speed hydraulic control syst	(06 Marks) em.
			(10 Marks)

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Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.