## QP Code: 6275

## (3 Hours)

Question No. 01 is compulsory.
Attempt any three questions from remaining five questions.

3. Draw neat and labeled diagram wherever necessary.

NB.

Note:

Total Marks: 80.

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Q.01)		Attempt any five questions out of six.	2
	a)	Explain whirling of shaft.	[04]
	b)	Write short note on functional requirements of clutch.	[04]
	c)	Write short note on automatic transmission.	[04]
	d)	Write short note on worm & wheel type steering gear.	[04]
	e)	Write short note on drum brake.	[04]
	f)	Explain types of wheel.	[04]
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Q.02)	a)	Explain types of clutch. Also explain working of any one type of clutch.	[08]
	b)	What is the drawback of sliding mesh gear box? Explain working of synchromesh gear box.	[80]
	c)	Compare dependent & independent suspension.	[04]
Q.03)	a)	Explain any one type of gear shifting mechanism used in automobile.	[08]
		Explain following terms:	[80]
7		1. Toe in, 2. Camber, 3. King Pin Inclination, 4. Combined angle	
8	c)	Write short note on McPherson strut suspension.	[04]
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Q.04)	a)	Explain tyre construction in detail.	[80]
	b)		[08]
	c)	Write short note on electric power steering.	[04]
	10.60		
Q.05)	a)	Explain the need of slip joint & universal joint in Hotchkiss drive.	[08]
	b)	Explain different types of brake systems used in automobile.	[08]
	c)	Write short note on centrifugal clutch.	[04]
Q.06)	a)	What is the limitation of mechanical brake system? Also explain need & procedure for brake bleeding.	[08]
	b)		[08]
	-,	multiplate clutch.	
	c)	Wtite short note on transfer case.	[04]
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