SEMVI/CBGS/AUTO/AS/M-J-15

QP Code: 5109

(3 Hours)

[Total Marks: 80

NB.			
Note:	1.	Question No. 01 is compulsory.	1
	2.	Attempt any three questions from remaining five questions.	
	3.	Draw neat and labeled diagram wherever necessary.	7
			50
	100		200
Q.01)		Attempt any five questions out of six.	[04]
	a)	Compare 2WD & 4WD vehicle lay outs.	[04]
	b)	Write short note on centrifugal clutch.	[04]
	c)	Write short note on CVT.	[04]
	d)	Draw neat labeled diagram of rack & pinion steering gear.	[04]
	e)	Draw neat labeled diagram of brake valve.	[04]
	f)	Compare radial tyre & cross ply tyre.	[o-1]
			[08]
Q.02)	a)	Explain necessity, functional requirements & basic principle of working of	
		clutch.	[08]
	b)	What is the drawback of sliding mesh gear box? Explain working of constant	[]
		mesh gear box.	[04]
	c)	Write short note on Mc-pherson strut suspension	
		C	[08]
Q.03)	a)	Explain types of gear shifting mechanism.	[08]
	b)	Explain following terms:	
	- 87	1. Castor, 2. Camber, 3. King Pin Inclination, 4. Combined angle	[04]
	c)	Write short note on wishbone type suspension.	
		Explain types of wheels & tyre construction.	[08]
Q.04)	a)	Explain recessity & working of differential.	[08]
	b)	Explain necessity & working of differential	[04]
	c)	Write short note on power steering.	
Q.05)		Explain hotchkiss drive. Also explain the need of slip joint in it.	[08]
	1000	Explain different types of brake.	[08]
	b)	Write short note on multiplate clutch.	[04]
	c)	Write short note 311 maniplate crates.	
0.00	-1	Explain hydraulic brake system & procedure for brake bleeding.	[08]
Q.06)		What are limitations of single plate clutch? Explain working & application of	[08]
	b)	multiplate clutch.	
	-	Compare transmission, transaxle & transfer case.	[04]
	_c)	Children and and an	