

**VI- SEM/MECH/DIP.MECH/2019(W)/(New)
MET-602-AUTOMOBILE ENGINEERING**

Full Marks: 80

Time: 3 Hours

Answer any Five Questions including Q No. 1 & 2
Figures in the right hand margin indicates marks

1	Answer ALL the questions:	2X10
(i)	Define automobile and give one example of it.	
(ii)	What is the purpose of using propeller shaft?	
(iii)	What is the aim of differential in automobiles?	
(iv)	Why air brake is so named?	
(v)	For what purpose spark plug is used?	
(vi)	Why we use flasher circuit?	
(vii)	What is the use of coil spring?	
(viii)	Why engine lubrication is needed?	
(ix)	Define Carburetion and Air Fuel Ratio.	
(x)	What is the use of fuel filter?	
2	Answer any SIX questions:	5X6
(i)	Write down the technical specifications of Indica (petrol).	
(ii)	Explain in brief about the working of single plate clutch with sketch.	
(iii)	Write a short note about vacuum brake.	
(iv)	Write briefly about common ignition system troubles and the remedies for prevention.	
(v)	Describe in short about telescopic shock absorber with sketch.	
(vi)	Write about the necessity of engine cooling. http://www.sctevtonline.com	
(vii)	Explain in short about common rail system for C.I. engines.	
(3)	Explain in detail the constant mesh gear box with clear diagram.	10
(4)	Describe the drum brake and disc brake with proper diagrams.	10
(5)	Write in detail about the tyre wear causes and the remedies.	10
(6)	Explain the pressure lubrication system with figure.	10
(7)	What is the magneto ignition system? Explain with neat sketch.	10