

Program: BE –Automobile Engineering

**Curriculum Scheme: Revised 2016**

Examination: Third Year Semester V

Course Code: AEC504 and Course Name: Automotive Systems

Time: 1hour

Max. Marks: 50

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SAMPLE QUESTION PAPER

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Note to the students:- All the Questions are compulsory and carry equal marks .

Q. No.	Questions	Options			
		A	B	C	D
1	According to uniform wear theory, frictional torque transmitted in flat collar bearing is	$2/3 [\mu W (R1 - R2)]$	$1/2 [\mu W (R1 + R2)]$	$2/3 \mu W [(R1 + R2) / (R1 - R2)]$	$4/3 \mu W [(R1 + R2) / (R1 - R2)]$
2	At what point is the clutch actually wearing?	While clutch disc and flywheel are spinning at	While the engine and transmission are	At highway speeds when	It never wears
3	inclined	Hinge joint	Universal joint	Pivot joint	Ball and socket
4	Which parameter is most important in case	Tractive Effort	Tyre Pressure	Frictional Force	Garbox type
5	If the front of the front wheels is inside and rear of front wheels are apart when the	Toe-in	Toe out	Positive camber	Positive castor
6	In case of disc brake, which part is attached to the rotating wheel/ axle?	Brake pads	Disc	Drum	Callpier
7	In Disc clutch, engine flywheel acts as a	driving member	driven member	neutral member	non rotating
8	The slip joint allow a change in the	Angle of rotation	Length of shaft	Speed of rotation	Angle of drive
9	On which Principle, does the hydraulic brake	Pascal's Law	Law of conservation	Law of	Ohms Law
10	In case of Macpheson strut suspension, where does the upper end of the strut	Upper wishbone	Vehicle body	Vehicle chassis	Axle
11	shaft.....	Drive & Universal Joint	Joint	Universal Joint	Drive & Slip Joint

12	called the	Trunnion	Joint	Bearing	Spider
13	The following is an automatic clutch which is controlled by engine speed	Centrifugal clutch	Cone clutch	fluid clutch	Disc clutch
14	The axle used in truck is	Semi-floating	fully-floating	three-quarter	half-floating
15	Hard steering is a result of	linkage	linkage	wheel bearings	incorrect lubricant
16	A two- piece propeller shaft requires	One Universal Joint	Bearing	Solid	Two Universal Joint
17	Wheel wobbling can be fixed by	adjusting and repairing it	stabilizer	replacing kin-pin	lining
18	a tubeless tire?	Disc wheel	Light alloy wheel	Wire wheel	Composite wheel
19	made from a	Steel Shaft	Gun Metal Shaft	Steel Tube	Cast Iron Rod
20	arrangement is used	CVT	box	gear box	box
21	toothed roller is meshed with	A Worm	A ball bearing	steering wheel	steering knuckle
22	which transmission	CVT	box	gear box	box
23	The member in epicyclic gear box which embraces the whole assembly is	Sun Gear	Ring Gear	Planet pinion	Planet Carrier
24	A two-piece propeller shaft requires	One universal joint	universal joint	Shaft to be solid	bearing
25	double-declutching is used?	Constant-mesh gearbox	gearbox	gearbox	gearbox



