University of Mumbai Examination 2020 under cluster 4 (PCE)

Program: BE Mechanical Engineering
Curriculum Scheme: Rev 2016
Examination: Fourth Year Semester VII

Course Code: MEDLO7032 Course Name: Automobile Engineering (DLOC)

Time: 1 hour	Max. Marks: 50
Note to the students:- All the Questions are compulsory and carry equal marks	

Q1.	Axle shaft of the three-quarter floating axle is subjected to		
Option A:	Bending stress only		
Option B:	Bending and torsional stress		
Option C:	Torsional stress only		
Option D:			
Q2.	The arrangement in which road springs act as torque and thrust		
	members is known as		
Option A:	Hotchkiss drive		
Option B:	Torque tube drive		
Option C:	road spring drive		
Option D:	Torque tube drive, road spring drive		
Q3.	Sideways forces are absorbed by which of the following		
	component?		
Option A:	Coil springs		
Option B:	Torsion bars		
Option C:	Air springs		
Option D:	Leaf springs		
Q4.	Which of the following is not a part of driving axle unit?		
Option A:	Propeller shaft		
Option B:	Final drive		
Option C:	Differential		
Option D:	Half shafts		
Q5.	Following type of rear axle is used in a car and light commercial		
	vehicles are		
Option A:	Semi-floating axle		
Option B:	Full floating axle		
Option C:	Three quarter Floating axle		
Option D:	Full floating axle, Three quarter Floating axle		

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Q6.	are provided in the clutch smooth engagement.		
Option A:	Coil springs		
Option B:	Cushion springs		
Option C:	Torsion springs		
Option D:	Spring basic disc		
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Q7.	The brake warning light warns the driver of		
Option A:	water in the master cylinder		
Option B:	air in the hydraulic system		
Option C:			
Option D:	power brake failure.		
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Q8.	Tandem master cylinder consists of		
Option A:	one cylinder and one reservoir		
Option B:	two cylinders and two reservoirs		
Option C:	two cylinders and one reservoir		
Option D:	one cylinder and two reservoirs		
Q9.	Which of the following is not the component of differential?		
Option A:	Ring gear		
Option B:	Bevel gear		
Option C:	Carrier		
Option D:	Lay shaft		
Q10.	A locking differential is useful for what type of vehicle?		
Option A:	Sports car		
Option B:	Passenger vehicle		
Option C:	off road vehicle		
Option D:	Formula one vehicle		
Q11.	A differential gear in automobiles is used to		
Option A:	reduce speed		
Option B:	provide jerk-free movement of vehicle		
Option C:	assist in changing speed		
Option D:	help in turning		
Q12.	Damper in an automobile is used to		
Option A:	Dissipate the energy		
Option B:	Absorb the energy		
Option C:	Release the energy		
Option D:	Increase the energy		

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Q13.	Sprupa weight is	
Option A:	Sprung weight is Weigh of vehicle minus unsprung weight	
Option B:		
Option C:	Weigh of chassis frame	
Option C:	Weight of wheels Weight of wheels and axles	
Option D.	Weight of wheels and axies	
Q14.	What do the permissible of mixing cross-ply and radial-ply	
Q14.	automobile tires allow?	
Option A:	Cross-ply tires on left wheels	
Option B:	Cross-ply tires on right wheels	
Option C:	Cross-ply tires on front wheels	
Option C:	Cross-ply tires on rear wheels	
Option D.	Cross-ply tiles on real wheels	
Q15.	Which of the following spring is used in rigid axle suspension?	
Option A:	Coil spring	
Option B:	Leaf spring	
Option C:	Air spring	
Option C:	Torsion spring	
Option D.	rorsion spring	
Q16.	Which is the main function of the tread pattern on tyre?	
Option A:	The tread grooves pass air between the tyre and road surface,	
Option 71.	thereby preventing tyre from overheating	
Option B:	The crests between the tread grooves absorb road noise	
Option C:	In wet conditions, the tread grooves expel water that is drawn	
option c.	between the tyre and road surface	
Option D:	The tread pattern protects the tire's inner carcass from small	
option B.	stones and pieces of glass	
	ctorios aria proces er glase	
Q17.	Which of the following is not an advantage of the alternator?	
Option A:	Higher output	
Option B:	Lower weight	
Option C:	Less maintenance	
Option D:	High efficiency	
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Q18.	The purpose of the alternator stator is to	
Option A:	Change alternating current to direct current.	
Option B:	Have voltage induced in its windings	
Option C:	Build up a strong magnetic field.	
Option D:	Conduct the field current.	
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Q19.	What does CCA stand for in engine starting methods?		
Option A:	Circuit card assembly		
Option B:	Cold cranking amps		
Option C:	Chromate copper arsenate		
Option D:	Capital cost allowances		
Q20.	The generator which gives dc supply to the rotor of an		
	alternator is called as		
Option A:	Convertor		
Option B:			
Option C:	Inverter		
Option D:	Rectifier		
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Q21.	The most effective section against bending is		
Option A:	Rectangular bar		
Option B:	Round bar		
Option C:	Round hollow tube		
Option D:	Square hollow section		
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Q22.	Which of this falls into LMV(Light Motor Vehicle) category		
	based on capacity?		
Option A:	Cars		
Option B:	Motorbike		
Option C:	Trucks		
Option D:	Buses		
Q23.	The essential automobile structure consists of frame, axle,		
	wheels and		
Option A:	Gear Box		
Option B:	Engine		
Option C:	Suspension		
Option D:	Differential gear		
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Q24.	Which of the following system prevents car crash and assists		
	driver to retain control over the vehicle which is skidding out of		
	control?		
Option A:	Automatic stability control		
Option B:	Electronic cruise control		
Option C:			
Option D:	Integrated starter alternator		
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Q25.	Permanent magnet synchronous machine along with voltage		
	source inverter is used in		
Option A:	EGR system		
Option B:	Integrated starter alternator		
Option C:	ion C: EBD		
Option D:	TCS		

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Question	Correct Option (Enter either 'A' or 'B' or 'C' or 'D')
Q1.	С
Q2.	А
Q3.	D
Q4	А
Q5	А
Q6	В
Q7	С
Q8.	В
Q9.	D
Q10.	С
Q11.	D
Q12.	А
Q13.	D
Q14.	С
Q15.	В
Q16.	С
Q17.	D
Q18.	В
Q19.	В
Q20.	В
Q21.	D
Q22.	А
Q23.	С
Q24.	А
Q25.	В