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Maximum: 100 marks

Time: 1 hour and 15 minutes

1.	In an alte	rnator the magnetic field is pr	roduced in the:	
	(A)	Rotor	(B)	Stator
	(C)	Frame	(D)	Regulator
2.	What type	e of dynamo is commonly used	in automobiles	3?
	(A)	Single pole type	(B)	Two pole type
	(C)	Three pole type	(D)	Five pole type
3.	The brush	nes of dynamo are made of:		
	(A)	Aluminium	(B)	Carbon
	(C)	Copper	(D)	Brass
4.	Why the a	air is cleaner filled with oil?		
	(A)	To lubricate		
	(B)	To prevent dust and dirt from	m atmosphere	
	(C)	To pressure		
	(D)	To accelerate		
5.	In diesel o	cycle combustion takes place in	n:	
	(A)	Constant pressure	(B)	Constant volume
	(C)	Constant temperature	(D)	Constant temperature and pressure
6.	In a turbo	charged engine, the air press	ure is increased	d by turbine-compressor driven by:
	(A)	Crank Shaft	(B)	Fan pulley
	(C)	Startor motor	(D)	Exhaust gases
7.	Which of	the following conductors is use	ed in bulbs?	
	(A)	Tungsten	(B)	Carbon
	(C)	Copper	(D)	Nichrome
A			3	

8.	Which one of the following given DC supply?					
	(A)	Dynamo	(B)	Transformer		
	(C)	Alternator	(D)	Motor		
9.	The relati		acid b	attery is 1.280.This value indicate that		
	(A)	Fully charged	(B)	Half charged		
	(C)	Three quarter charged	(D)	None of the above		
10.	The main	purpose of lead-acid battery is to store	electi	rical energy in the form of:		
	(A)	Kinetic Energy	(B)	Potential Energy		
	(C)	Chemical Energy	(D)	Mechanical Energy		
11.	The single	e phase domestic AC power supply volt	age in	India is:		
	(A)	110 V	(B)	230 V		
	(C)	440 V	(D)	550 V		
12.	The powe	r source in a pneumatic system is:				
	(A)	Air receiver	(B)	Compressor		
	(C)	Value	(D)	Muffler		
13.	Viscosity	is an internal property of a fluid. It is a	neasu	re of its resistance to:		
	(A)	Current	(B)	Light		
	(C)	Sound	(D)	Flow		
14.	A transfor	rmer consists of:				
	(A)	One coil	(B)	Two coil		
	(C)	Three Coil	(D)	Four coil		
15.	Dog clutch	nes are used in:				
	(A)	Gear box	(B)	Friction clutches		
	(C)	Brakes	(D)	Differentials		
16.	The clutch	n plate assembly has a center steel disc	rivet	ed with springs for:		
	(A)	Absorbing shocks	(B)	Reducing noise		
	(C)	Higher flexibility	(D)	Higher strength		

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17.	What is a	nother name for throw out bearings:		
	(A)	Clutch release bearing	(B)	Tum around bearing
	(C)	Flywheel bearing	(D)	Crank shaft bearing
18.	The purp	ose of double declutching when changir	ng dow	n is to:
	(A)	Slow down the lay shaft	(B)	Speed up the lay shaft
	(C)	Slow down the main shaft	(D)	Speed up the main shaft
19.	The centr	al gear of an epicyclic gear box is called	l:	
	(A)	Ring gear	(B)	Planet gear
	(C)	Sun gear	(D)	Internal gear
20.	Two mesh	ning gears have 4:1 gear ratio if the sm	aller g	rear has 12 teeth the larger will have:
	(A)	12 teeth	(B)	24 teeth
	(C)	36 teeth	(D)	48 teeth
21.	Which or declutching	ne of the following is used in manual	l trans	smission to avoid the need for double
	(A)	Motor oil	(B)	Dog clutch
	(C)	Equalizer	(D)	Synchronizer
22.		etary gear set in automatic transmission delutches are actuated by:	on is a	compound epicyclic planetary gear set
	(A)	Pneumatic sensors	(B)	Hydraulic sensors
	(C)	Electrical sensors	(D)	Mechanical sensors
23.	A univers	eal joint which is constructed with 2 yok	kes joi	ned by a cross shaped trunion is called:
	(A)	Hookes	(B)	Lay rub
	(C)	Drough nut	(D)	Constant velocity
24.	The purp	ose of slip joint at the front end of a pro	peller	shaft is to allow:
	(A)	The shaft to be removed and refitted		
	(B)	The drive to be transmitted through a	a vary	ing angles
	(C)	For the change in distance between t	he gea	r box and axle
	(D)	For the variation in speed of the from	t univ	ersal joint.

25 .	The central portion of a propeller shaft is made from a:				
	(A)	Steel shaft	(B)	Gun metal shaft	
	(C)	Steel tube	(D)	Cast	
26.	In the diff	ferentiate the crown wheel	is attached to the:		
	(A)	Bevel gear	(B)	Bevel pinion	
	(C)	Differential case	(D)	Propeller shaft	
27 .	The dista	nce between adjacent mesl	ning teeth of matin	g gear is called:	
	(A)	Clearance	(B)	Pitch line	
	(C)	Back lash	(D)	Flank	
28.	Which on	e of the following gears doe	es not revolve when	n the vehicle is in straight drive?	
	(A)	Crown wheel	(B)	Planetary gear	
	(C)	Pinion	(D)	Sun gear	
29.	In a fully floating type of axle the vehicle load is taken up by:				
	(A)	Axle housing	(B)	Tapered roller bearing	
	(C)	Axle shaft	(D)	Hub	
30.	The type	of wheel which cannot be u	sed with a tubeles	s type is:	
	(A)	Disc wheel	(B)	Wire wheel	
	(C)	Split wheel	(D)	Tight alloy wheel	
31.	If the tyre	es wear more on the edges	than at the inside,	the tyres are:	
	(A)	Property inflated	(B)	Over inflated	
	(C)	Under inflated	(D)	Not inflated	
32.	The shock	absorber used in modern	cars operates on th	ne principle of:	
	(A)	Pneumatic	(B)	Hydraulic	
	(C)	Mechanical linkage	(D)	Centrifugal force	
33.	An axle is	s located on a leaf spring by	v a:		
	(A)	ʻu' bolt	(B)	Spring clip	
	(C)	Centre holt	(D)	Shakle nin	

34. Rotary motion of the steering wheel is converted to a reciprocating motion by the:			eciprocating motion by the:			
	(A)	Track rod	(B)	Track arm		
	(C)	Stub axle	(D)	Steering box		
35.	As applied to steering to abbreviation P.A.S stands for:					
	(A)	Pump assisted system steering				
	(B)	Pump aided steering				
	(C)	Power activated system steering				
	(D)	Power assisted steering				
36.	The steeri	ng ratio for manual steering of cars is a	approx	ximately:		
	(A)	5	(B)	15		
	(C)	50	(D)	100		
37.	In the disc	c brake the disc is attached to the:				
	(A)	Piston	(B)	Caliper		
	(C)	Wheel Hub	(D)	Steering Knackle		
38.	Brake sho	es are made of:				
	(A)	Pressed steel	(B)	Cast aluminum		
	(C)	Plastic fiber	(D)	Either (A) or (B)		
39.	Most anti-	skid devices are employed on:				
	(A)	Rear brakes	(B)	Front brakes		
	(C)	Secondary brakes	(D)	Parking brakes		
40.	The purpo	ose of a brake is to:				
	(A)	Store energy				
	(B)	Change Friction				
	(C)	Convert heat energy to Kinetic energy	y			
	(D)	Convert Kinetic energy to heat energy	7			
41.	The type of	of reflector used for automobile head la	mp:			
	(A)	Parabolic	(B)	Spherical		
	(C)	Hyperbolic	(D)	Elliptical		

42.	On cars having rack and pinion steering. The gear rack is attached to:							
	(A)	Relay rod	(B)	Pitman axis				
	(C)	Cross Shaft	(D)	Tie rod				
43.	Front who	eel alignment is adjusted by altering	g:					
	(A)	Angle of rack arm	(B)	Length of track rod				
	(C)	Distance between King pins	(D)	Position of drag link				
44.	The tilting	The tilting of the front wheel away from the vertical is called:						
	(A)	Caster	(B)	Camber				
	(C)	Toe in	(D)	Toc-out				
45.	Sequence	of water circulation is:						
	(A)	Pump-block-head-regulator	(B)	Pump-radiator-block-head				
	(C)	Pump-radiator-block	(D)	None of these				
46.	The conne	ecting rod is made of:						
	(A)	Cast iron	(B)	Aluminum				
	(C)	Mild steel	(D)	Alloy steel				
47.	The upper	rmost ring on piston is usually plate	d with:					
	(A)	Steel	(B)	Cast iron				
	(C)	Aluminum	(D)	Chromium				
48.	Engine vi	bration is due to:						
	(A)	Connecting rods						
	(B)	Uneven weight distribution of crar	nk shaft					
	(C)	Unbalanced piston						
	(D)	All of these						
49.	The unit o	of brake power is:						
	(A)	Kilo Newton	(B)	Kilowatt				
	(C)	Kilopascal	(D)	Kilo Newton Meter				
50.	The push	rod in an engine is located between:						
	(A)	Camshaft and valve tappet	(B)	Valve tappet and rocker arm				
	(C)	Valve and valve spring	(D)	Valve and rocker arm				

51.	The cooling water does not come in direct contact with cylinder in:					
	(A)	Wet liner	(B)	Cast iron		
	(C)	Dry liner	(D)	None of these		
52.	Compress	ion rings are generally made of:				
	(A)	Cast iron	(B)	Low carbon steel		
	(C)	High carbon steel	(D)	Aluminum		
53.	A hole dri	lled between the crank shaft main jour	rnal ar	d crank pin:		
	(A)	Lubricating connecting rod bearing	(B)	Balancing the crank shaft		
	(C)	Reducing crank shaft weight	(D)	Reducing crank shaft vibration		
54.	The purpo	ose of piston ring is to control:				
	(A)	Oil consumption	(B)	Combustion pressure		
	(C)	Cylinder wall lubrication	(D)	All of the above		
55.	The engin	e valves are closed by:				
	(A)	Valve spring	(B)	Cam shaft		
	(C)	Timing device	(D)	Crank shaft		
56.	The most	commonly used valve in an automobile	e engin	e is:		
	(A)	Sleeve valve	(B)	Rotary Valve		
	(C)	Poppet Valve	(D)	All of these		
57 .	The engin	e component which reduces noise of ex	khaust	gases is:		
	(A)	Tall pipe	(B)	Muffler		
	(C)	Inlet manifold	(D)	Exhaust pipe		
58.	The cams	haft controls:				
	(A)	Valve timing	(B)	Valve closing		
	(C)	Valve opening	(D)	All of these		
59 .	While lap	ping a valve the lapping compound is a	applied	to its:		
	(A)	Face	(B)	Stem		
	(C)	Guide	(D)	Tip		

60.	The carbon from the cylinder head is removed with:					
	(A)	Water	(B)	Caustic Soda		
	(C)	Scarper	(D)	Soap		
61.	A push ro	d is located between:				
	(A)	Valve and Valve spring	(B)	Valve and rocker arm		
	(C)	Tappet and rocker arm	(D)	None of these		
62 .	The mate	rial used for cylinder block are:				
	(A)	Cast iron and steel	(B)	Cast iron and aluminum		
	(C)	Steel and aluminum alloy	(D)	Brass and steel		
63.	Crank sha	aft converts reciprocating motion in to		——— motion		
	(A)	Liner	(B)	Circular		
	(C)	Rotary	(D)	None of these		
64.	The ratio	between B.H.P and I.H.P is called:				
	(A)	Thermal Efficiency	(B)	Engine efficiency		
	(C)	Mechanical Efficiency	(D)	Power Efficiency		
65.	A two-stre	oke engine has port in the:				
	(A)	Piston	(B)	Cylinder walls		
	(C)	Piston ring	(D)	Cork case		
66.	In which	one of the following types of engine has	the lo	ongest crank shaft:		
	(A)	Opposed engine	(B)	Radial Engine		
	(C)	Inline Engine	(D)	'V' Engine		
67.	In a diese	l engine the fuel is ignited by:				
	(A)	A glow plug				
	(B)	A spark Plug				
	(C)	An Injector				
	(D)	Virtue of temperature of compressed	air			

68.	Maruti 800, Alto, Satro and i10 cars are example of:					
	(A)	Van	(B)	Hach back		
	(C)	Sedan	(D)	Estate		
69.	The period	d during which both the valves remains	s is cal	led:		
	(A)	Overlap	(B)	Lag		
	(C)	Lead	(D)	None of these		
70.	Which typ	oe of a bearing is used in crank shaft?				
	(A)	Ball bearing	(B)	Shell bearing		
	(C)	Roller bearing	(D)	Taper roller bearing		
71.	In which	year of first road vehicles was built:				
	(A)	1770	(B)	1746		
	(C)	1789	(D)	1885		
72.	Mini cars	have length up to:				
	(A)	3400 mm	(B)	4000 mm		
	(C)	4500 mm	(D)	4700 mm		
73.	The top po	ortion of piston is called:				
	(A)	Crown or head	(B)	Piston top		
	(C)	Land	(D)	Boss		
74.	Who was	invited by 2 stroke engine?				
	(A)	Otto	(B)	Dugald clerk		
	(C)	Nicholas Joseph cugnot	(D)	Benz		
75.	The lubric	eating oil pump outlet is connected to:				
	(A)	Oil passage in rocker shaft	(B)	Oil gallery in cylinder block		
	(C)	Timing case inlet union	(D)	Fitter inlet pipe		
76.	Water slu	dge is formed in the crankcase due to n	nixing	:		
	(A)	Fuel and Oil	(B)	Water and fuel		
	(C)	Water and Oil	(D)	Water and air		

77.	Where is pressure relief valve for lubricating system on a diesel engine provided:					
	(A)	Inlet port of Oil pump	(B)	Outlet port of Oil pump		
	(C)	Main oil gallery	(D)	Lubrication oil filler inlet		
78.	The lubric	cating oil pressure of engine is adjusted	d at:			
	(A)	Pressure gauge				
	(B)	Pressure valve				
	(C)	By pass valve				
	(D)	Main bearing clearance				
79.	The most	commonly used lubrication system in a	automo	obile is the:		
	(A)	Petrol-oil system	(B)	Pressure system		
	(C)	Dry sump system	(D)	Splash system		
80.	In which	of the following lubricating system an	additic	onal tank is provided:		
	(A)	Petrol oil lubrication system	(B)	Dry sump lubrication system		
	(C)	Splash type lubricating system	(D)	Pressure lubricating system		
81.	Which par	rt indicates the oil level on the engine	sump?			
	(A)	Feeler gauge	(B)	Plastic gauge		
	(C)	Oil pressure	(D)	Dip stick		
82.	The most	important characteristic of a lubrication	ng oil i	s its:		
	(A)	Viscosity	(B)	Physical stability		
	(C)	Chemical stability	(D)	Resistance against corrosion		
83.	The radia	tor core is made of:				
	(A)	Brass	(B)	Steel		
	(C)	Cast iron	(D)	Plastic		
84.	A pressur	e cap contains a:				
	(A)	Pressure valve	(B)	Thermostat valve		
	(C)	Blow-off valve	(D)	Pressure and volume valve		

85.	The therr	nostat valve is starts to open at abo	ut:			
	(A)	90°C	(B)	80°C		
	(C)	50°C	(D)	20°C		
86.	What typ	e of pump is used in engine cooling	system?			
	(A)	Vane pump	(B)	Reciprocating pump		
	(C)	Centrifugal pump	(D)	Rotary pump		
87.	If the the	rmostat is stuck closed .The engine	will:			
	(A)	Warm up slowly	(B)	Overheat		
	(C)	Fail to start	(D)	Idle		
88.	Radiator	core should be cleaned by:				
	(A)	Reverse flushing	(B)	Top of bottom of core		
	(C)	Outside the fan side	(D)	Top hose to bottom hose		
89.	Cooling media to remove heats from an engine is:					
	(A)	Air only	(B)	Water only		
	(C)	Air and Water	(D)	None of these		
90.	In bellows	s type thermostat liquid used are:				
	(A)	Spirit	(B)	Alcohol or other		
	(C)	Water or petrol	(D)	None of these		
91.	Which on	e of the following parts of diesel eng	gine inject	or delivers fuel?		
	(A)	Fuel tank	(B)	Fuel filter		
	(C)	Engine cylinder	(D)	Governor		
92.	A glow pl	ug is:				
	(A)	A compression device	(B)	A decompression device		
	(C)	Fitted in the inlet manifold	(D)	Screwed in the combustion chamber		
93.	Injectors	deliver fuel to:				
	(A)	Fuel filters	(B)	Fuel tank		
	(C)	To governors	(D)	To Engine cylinders		

94.	Distribute	or type F.I.P is also called as:		
	(A)	In-line pump	(B)	Rotary pump
	(C)	Low pressure pump	(D)	Servo pump
95.	Hand prin	ning device is useful when:		
	(A)	The engine is at full speed	(B)	The engine is at Idling speed
	(C)	The engine is at full load	(D)	The engine is at rest
96.	Secondary	y filter in a diesel engine is:		
	(A)	Amust		
	(B)	Installed between the fuel tank and fe	ed pu	ımp
	(C)	Optional		
	(D)	Not capable of removing water from the	ne fue	ıl.
97.	Which of	the following content present in the gas	oline	fuel increases the corrosion of engine?
	(A)	Lead	(B)	Copper
	(C)	Iron	(D)	Sulphur
98.	In which condition:		spray	hole to assist easy starting under cold
	(A)	Long stem type	(B)	Pintle type
	(C)	Delay nozzle	(D)	Pintaux nozzle
99.	Running 6	engine should be stopped by operating:		
	(A)	Relief valve	(B)	Rack Operating lever
	(C)	Handle	(D)	Flywheel
	T 1: 1			
100.		engine fuel feed pump is mounted on:	(D)	D 161
	(A)	Fuel tank	(B)	Fuel filter
	(C)	Fuel injection pump	(D)	Cylinder head

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