1. /	In gear system, speed reduction means to 1) Stabilization 3) Reduction	rque 2) Increase 4) Will not influence
2.	The two meshed gears have a gear ratio of the small gear will be to turn -	f 3: 1. Every time the larger gear turns
	1) 1/3 time 3) Three times	<ul><li>2) One</li><li>4) Six times</li></ul>
3.	If two meshing gears have 4: 1 gear ratio larger gear will have -	and the smaller gear has 12 teeth, the
	1) 12 teeth 3) 36 teeth	2) 24 teeth 4) 48 teeth
4.	The type of rear axle in which the wheel e housing is:	end is supported by bearing inside the axle
,	1) Semi floating axle 3) Full floating axle	<ul><li>2) Three quarter floating axle</li><li>4) 1/4 floating axle</li></ul>
5.	The axle simply remains stationary and d	oes not move with the wheels, is called -
	<ol> <li>Live axle</li> <li>Semi floating axle</li> </ol>	2) Dead axle 4) Full floating axle
6.	In the transmission system, the provision	of slip joints allows a change in the -
	<ol> <li>Angle of drive</li> <li>Speed rotation</li> </ol>	2) Length of the shaft 4) Diameter of the shaft
7.	Floating axles are classified on the basis of 1) The amount of torque transmitted	f - 2) Depending upon their location whether at front or rear
1	3) Depending upon the nature of forces like torsional vertical and lateral loading to which they are subjected	4) Purely on the basis of type and number of bearings used at the work.
8.	In the Hotchkiss drive, the rear torque is 1) Torque tube 3) Radius rod	absorbed by the -  2) Rear springs  4) Universal joint
9.	Cornering force divided by slip angle is ca 1) Self righting torque 3) Pneumatic trail	alled - 2) Cornering power 4) Camber
10.	The included angle is the sum of - 1) Camber and caster 3) Camber and king pin inclination	<ul><li>2) Caster and king pin inclination</li><li>4) Camber and toe-in</li></ul>
11.	The two basic types of axle are -  1) Semi floating and full floating axle  3) Dead and full floating axle	2) Dead and live axle 4) Live and full floating axle

12.	eering gear ratio of the passenger cars	without power steering varies in between -
	1) 8 : 1 and 10 : 1 3) 5 : 1 and 7 : 1	2) 14 : 1 and 24 : 1 4) 25 : 1 and 27 : 1
13.	When the slip angle is greater than at the 1) Over steer 3) Correct steer	front, the vehicle tends to - 2) Under steer 4) Over damped
14.	The turning circle radius is proportional  1) Wheel base of vehicle 3) Length of the tie rod	to - 2) Wheel track 4) Caster and camber
15.	The slip joints permits a change in the -  1) Length of the shaft  3) Diameter of the shaft	<ul><li>2) Speed of rotation</li><li>4) Torque of the shaft</li></ul>
16.	Articulated vehicle means -  A) A tractor to which a trailer is attached	2) Luxurious vehicles
	3) Off road vehicles	4) Light commercial vehicle
	Omnibus means -  Y) Vehicle constructed to carry more than six persons excluding driver  3) Vehicle constructed to carry less than six members including driver	<ul><li>2) Vehicle constructed to carry more than six persons including driver</li><li>4) Vehicle constructed to carry less than six members excluding driver</li></ul>
18.	Wheel centre is:  1) Centre to centre distance between the front and rear wheels  3) Centre to centre distance between front wheels only	2) Supporting member between the axle and the rim 4) Wheel base
19.	Commonly used antifreeze are -  1) ISO-octane and ethylene glycol  3) Ethylene glycol and propylene glycol	2) Alcohol base and ethylene glycol 4) Ethylene glycol alone
	The cooling system is designed to remove cylinder.  1) 30 to 35 % 3) 60 to 70 %	of heat produced in the engine 2) 40 to 45 % 4) 10 to 20 %
21.	The unsprung mass in a vehicle system is  1) The frame assembly  3) Components between the suspension and road surfaces	2) Gear box and propeller shaft
	Unladen weight means -  1) Weight of a vehicle including all equipments  3) Weight of passengers	<ul><li>2) Weight of a vehicle with passengers</li><li>4) Weight of a vehicle without all equipments</li></ul>

# ΑE 23.

1) Zero set

3) Inset

ΑE	INDUSTRIES - AUTOMOBILE	
23.	*-member of a car frame is added for -  1) Providing torsional rigidity  3) Resistance to vertical shock load acting simultaneously on both front wheels	<ul><li>2) Bending strength of side members</li><li>4) Resistance of wearing and torsional strength of front end of frame</li></ul>
24.	The rear end suspension arrangement in spring is called the -	which rear end torque is absorbed by the
	1) Torque tube drive	2) Hooks drive
	3) Differential drive	4) Hotchkiss drive
25.	All the four wheels must resist the -  Y) Braking stresses and withstand side thrust	2) Load due to bump and pit
	3) Speed of the vehicle	4) Weight of spring mass only
26.	Braking is produced by the frictional effe	
	1) Wheel studs	2) Wheel rim
	3) Brake shoes	4) Wheel cylinder pistons
27.	The flange of the rim which provides  1) Radial support  3) Linear support	support to the type. 2) Lateral support 4) Both radial and linear support
28.	Motor car tyres usually have - 1) 2 Plies 3) 4 to 6 Plies	2) 2 to 3 Plies 4) 7 to 9 Plies
29.	Side walls of a tyre may have -  1) White color only  3) Red color and Black color	2) Black color only 4) Black and white color
30.	The load rating of the tyre -  1) Increases with the tyre width and the outer diameter  3) Increases with the tyre width only	<ul><li>2) Decreases with the tyre width and the outer diameter</li><li>4) Decreases with the tyre width only</li></ul>
31.	The running gear includes -  1) Wheels 3) Road	2) Jack 4) Steering
32.	The max load per tyre shall -  1) Exceed the highest load specified at the max inflation pressure for a tyre of that size and ply rating	
	3) Not consider for heavy vehicle	4) Consider for light commercial vehicle
33.	A wheel constructed that the centre line o face of the metal disc is called as -	f the rim is coincident with the attachment

2) Out side

4) Off set

# AE INDUSTRIES - AUTOMOBILE

34. To take care of the difference in the driving angle as rear axle moves up and down the propeller shaft has one or more -		
	1) Slip joint	2) Elbow joint
	3) Release joint	4) Universal joint
2.5	Turning circle radius of the buses and	
33.	1) 10 M	2) 5 to 7.5 M
	3) 3 to 4 M	4) More than 10 M
	,	,
	One purpose of recirculating ball type  1) Operating friction	2) Operating cost
/	3) Toe in during turns	4) Number of plates
		•
37.	On cars, having rack and pinion steer	
	1) Relay rod	2) Pitman axis
	3) Cross shaft	4) Tie rod
38.	The automobile chassis consists of the and	engine, frame, power train, wheels steering
	1) The doors	2) Luggage boot
	3) Wind shield	4) Braking system
30	Critical whirling speed of the shaft is i	increased by -
37.	1) Increasing its length	2) Decreasing its length
	3) Decreasing its diameter	4) Increasing its diameter
	,	,
40.	gear on the -	counter shaft drive gear is meshed with a
	1) Output shaft	2) Main shaft
	3) Clutch shaft	4) Propeller shaft
41.	The three forward speed and the reve	rse transmission consists of these shafts and -
	1) Three gears	2) Five gears
	3) Eight gears	4) Ten gears
42.		ries the engine power from the engine to the the clutch propeller shaft, differential and -
	1) Front axle	2) Steering gear
	3) Gear box	4) Chassis
13.	The device that produces different geal) Differential	ar ratio in the power train is called - 2) Transmission
	3) Speed changer	4) Clutch
	5) Speed changer	4) Clutch
<b>1</b> 4.	In the transmission reduction of speed	is always used to obtain -
	1) Reduction of torque	2) Constant torque to drive the wheels
_	3) Increase of torque	4) Torque will not be considered
<b>15.</b>	The modern passenger can has -	
	1) Two forward speeds	2) Three forward speeds
	3) Four forward speeds	4) Five forward speeds
	•	

# AE INDUSTRIES - AUTOMOBILE

46.	46. Overdrive is provided in the transmission of a vehicle to -		
	1) Reach higher road surfaces	2) Improved fuel economy	
	3) Achieve better acceleration	4) Carry more load	
47.	The ring gear is mounted on the -		
	1) Differential housing	2) Differential case	
	3) Axle housing	4) Driven pinion	
		, A	
48.	The axle bevel gears in the differential		
1	1) Differential pinion gears	2) Ring gear	
	3) Drive pinion	4) Main gear	
49.	Whipping of the propeller shafts is mai	nly due to -	
	1) The transmission of torsional vibration	of 2) The use of sliding joint in the propeller	
	the crank shaft	joint	
	3) The use of universal joints	A) Lack of balance and more weight of the	
		propeller shaft	
50	Axle shaft of the three quarter floating	avla is subjected to	
30.	1) Bending stress only	2) Side thrust and driving torque	
	3) Driving torque only	4) Direct stress only	
	5) Driving torque only	4) Direct sitess only	
51.	Propeller shaft includes -		
	1) Universal joint	2) Knee joint	
	3) Slip joint	4). Gear shaft	
52.	The power train transmits power from	the engine to the -	
	1) Crank shaft	2) Rear wheels	
	3) Front wheels	4) Steering gear	
	•	,	
53.	In the transmission, the reverse idler go	2) Counter shaft low gear	
	<ol> <li>Counter shaft drive gear</li> <li>Main shaft reverse gear</li> </ol>	A) Counter shaft reverse gear	
	5) Mail Shall levelse gear	4) Counter shart reverse gear	
54.	In the slip joint, slippage occurs between	n internally and externally mated -	
	1) Couplings	2) Joints	
/	3) Splines	4) Gears	
55.	The propeller shaft has one or more -		
	1) Spur gears	2) Elbow gears	
	3) Universal joints	4) Fluid couplings	
56	Battery life of a vehicle is reduced by -		
	1) Over charging	2) Over heating	
	3) Atmospheric condition	4) Power fluctuation	
	,	,	
57.	Clutch slippage while clutch is engaged		
	1) When starting the engine	2) During acceleration	
	3) During idle	4) At low speed	
58.	The purpose of the fluid coupling is to	act as -	
	1) Synchronizing device	2) Automatic gear changer	
	3) Smoothy drive power transmission	4) Gear box	
	coupling		

4) Receives voltage pulses from an ignition

2) Order in which the cylinders deliver their

signal

power strokes

4) None of these

3) Receives voltage pulses from the

1) Order in which the cylinders are

3) Standard arrangement which can be

changed by changing the crankshaft

injectors

numbered

70. The firing order is the -

2) Copper alloy4) Nichrome steel

83. Crank shaft main bearings are made of -

1) Alloy steel

3) Babbit metal

Αŀ	E INDUSTRIES - AUTOMOBILE	
84.	Valve lash represents -	
,	Valve tappet clearance	2) Valve misalignment
P	3) Worn out of valve face	4) Worn out of valve stem
85.	The chapter according to Motor Vehicles is:	ele Act 1988 dealt Registration of Motor
	1) Chapter II	2) Chapter IV
	3) Chapter VI	2) Chapter IV 4) Chapter XII
86.	Heat lost due to friction in the IC engin	nes between of engine power output.
	1) 8 to 10 %	2) 2 to 4 %
	3) 15 to 20 %	4) 80 to 90 %
87.	The fins at the top of a motor cycle eng bottom because -	gine cylinder are longer than those at the
	1) Hot air rises	2) Top is the hottest part
	3) They are in an unexposed position	4) Extra strength is required at the top
88.	What is the main purpose of the water system?	-pump bypass hose in the engine cooling
	1) To reduce pressure at water-pump out during high engine speeds	et 2) To allow coolant flow within the engine while the thermostat is closed
	3) To prevent air pockets in the water purhousing	mp 4) To prevent collapse of the lower radiator hose
89.	Which one of the following materials is springs?	NOT used as linear material in leaf
	1) Zinc	2) Steel
	3) Lead	2) Steel 4) Rubber
90.	In case of rigid axle suspension, the roa	nd adhesion is :
	1) Increased	2) Decreased
	3) First increased and then decreases	4) First decreased and then increases
91.	A battery of 100 Ah capacity will delive	er a current of 400A continuously for -
	1) 8 hours	2) 4 hours
	3) I hours	4) 0.25 hours
92.	The battery terminals are mostly many	ifactured by -
,	1) Hot forging	2) Cold forging
	3) Casting	4) Rolling
93.	Typical radiator cap pressure of a pres	surised cooling system of an automobile is:
	1) 83 - 110 kPa	2) 100 - 150 kPa
	3) 150 - 163 kPa	4) 160 - 183 kPa
	,	,
94.	Water pump noise in the engine coolin	-
	<ol> <li>Dry bearings and bush bearings</li> <li>Too much end play in the shaft</li> </ol>	<ol> <li>Loose pulley on the pump shaft</li> <li>All of these</li> </ol>
	o) 100 mach one play in the share	THE OF THOSE

2) Alloy steel

4) Engine capacity

2) FHP

3) 10:1

1) Steel

1) THP 3) BHP

105. The cylinder block is usually made from -

3) Gray cast iron with nickel and chromium 4) Cast steel

106. The power developed inside the engine cylinder is called -

AE INDUSTRIES - AUTOMOBILE	
107. Floating power means -  A method of engine mounting  3) A method of engine power storage	<ul><li>2) A method of engine power generation</li><li>4) A method of engine power consumption</li></ul>
108. To control torsional vibration of the en	gine due to crank shaft are used.
<ul><li>1) Shock absorbers</li><li>3) Cushions</li></ul>	2) Harmonic balancers 4) Springs
109. The case with a liquid vapourises is call 1) Volatility 3) Vapourability	led its - 2) Octane rating 4) Radiation
110. The device that permits variation in the spring as the spring flexes is called -  Y) Spring shackle 3) Spring hanger	2) Spring U bolt 4) Spring leaf
<ul><li>111. Universally used suspension spring for</li><li>1) Full elliptic</li><li>3) One quarter elliptic</li></ul>	heavy commercial vehicles is: 2) Semi elliptic 4) Three quarter elliptic
<ul><li>112. Synchronizing devices are designed onl</li><li>1) 1st and 2nd gear</li><li>3) First and Reverse</li></ul>	ly on the - 2) Top gears 4) Reverse
<ul><li>113. Clutch chattering or grabbing is notice</li><li>1) At low speed</li><li>3) When acceleration</li></ul>	able -  2) When engaging the clutch  4) When it is not engaged properly
1) Accelerating 3) Idling and clutch is engaged	ble when the engine is: 2) Decelerating 4) Being started
115. The fluid coupling has maximum efficiturning at -  1) High speed 3) Different speed	ency when driving and driven members are  2) Low speed 4) Same speed
<ul><li>116. The clutch pressure plate is mounted of</li><li>1) Flywheel</li><li>3) Friction disc</li></ul>	on the - 2) Clutch cover 4) Crank shaft
<ul><li>117. The clutch cover is bolted on the -</li><li>1) Friction disc</li><li>3) Car frame</li></ul>	2) Fly wheel 4) Engine block
118. There is a double faced friction disc sp	olined to the shaft in the -

2) Differential 4) Clutch

1) Transmission

3) Engine

AE INDUSTRIES - AUTOMOBILE	
1) Centrifugal device making up charges proportional to road speed	principle of - 2) Centrifugal device connected to crank shaft making up changes proportional to engine speed
3) Controlling the variable speed and engine load	e 4) Making gear changes at equal intervals or set road speeds
120. The hydraulic torque converter -  1) Gives a variable torque is impressed on the driven member without the use of clutch and gear train	2) Enables to get the maximum h.p continuously
3) Gives a speed variation without torque variation	4) Maintains a high efficiency throughout the operating speed angle
121. In the fluid coupling oil passes from the d  1) Gear  3) Vanes	riving to the - 2) Coupling 4) Driven member
122. The fluid coupling is most efficient as drives 1:1 3) 1.5:1	ve ratio approaching to - 2) 2: 1 4) 1: 3
123. In the high gear in the transmission, main 1) Idler shaft 3) Clutch shaft	shaft turns at the speed as the - 2) Counter shaft 4) Propeller shaft
1) Transmission and the propeller shaft 3) Transmission and clutch	<ul><li>2) Planetary gears and clutch</li><li>4) Differential and axle</li></ul>
125. The sun gear in the planetary gear system 1) Pinion cage 3) Clutch gear	meshes with the - 2) Ring gear 4) Planet pinions
<ul><li>126. The power train includes the clutch prope</li><li>1) Steering gear</li><li>3) Chassis</li></ul>	eller shaft, differential and  2) Front axles  4) Gear box
127. The axle shaft of full floating is subjected 1) Axial thrust only 3) Torsional stress only	to - 2) Axial thrust and bending stress 4) Bending and torsional stresses
128. Differential mechanism at the axle is proved to Enable the vehicle is taking turn 3) To provide a reduction ratio	rided mainly to - 2) Equalize the division of the torque 4) To turn the drive through a right angle
129. In the differential the ring gear is attached	d to the -

2) Drive gear4) Propeller shaft

1) Bevel gear
3) Differential case

AE INDUSTRIES - AUTOMOBILE	
130. Hotchkiss drive is the name associ	ated with -
1) A type of automatic transmission	The kind of drive for independent suspension axles
3) Means of taking up torque and the leaf spring	•
131. If the vehicle is a medium or heavy hour in kilometers is :	passenger motor vehicle, the max speed per
1) 30 3) 50	2) 40 4) 60
132. If the vehicle is a motor cycle, the 1	
3) 60	2) 40 4) 50
133. Motor cab means -	
Constructed to carry not more that members excluding driver	n six 2) Constructed to carry less than ten members
3) Constructed to carry only four me	mbers 4) Constructed to carry only maximum 10 members
134. Racing or trail of speed between m punishable with -	otor vehicles in any public place shall be
1) Cancellation of licenses	2) Imprisonment for a term which may be extended to one year with fine or both
3) Fine which may extend the five th only	ousand 4) Imprisonment for a term which may extend to one month or with fine which may extend for the three hundred rupees or with both
•	hen passing or meeting a procession or a body of hen passing workmen engaged on road repair,
1) 35 km 3) 40 km	2) 30 km 4) 25 km
1) Motor vehicles Act, 1945 3) Motor vehicles Act, 1941	d on an All India basis by - 2) Motor vehicles Act, 1914 4) Motor vehicles Act, 1950
137. If the vehicle is a light motor vehicle and the trailer has more than two wl laden weight exceeding 800 kg, the maximum speed/hour in kilometers is	
1) 35 3) 60	2) 40 4) 50
<ul><li>138. Connecting rod end ply or side cles</li><li>1) Vernier calipper</li><li>3) Micrometer</li></ul>	2) Screw gauge 4) Feeler gauge
<ul><li>139. Wishbone type suspension system i</li><li>1) Heavy vehicles</li><li>3) Trucks</li></ul>	is used mainly in: 2) Two wheelers 4) Passenger cars

ΑE	INDUSTRIES - AUTOMOBILE	
140.	The axle shaft is not supported at eithe	r end by bearings in -
	1) Semi floating axle	2) Full floating axle
	3) Three-quarter floating axle	4) Stub axle
141.	During idling the air fuel mixture requ	irement for running the engine is
	1) Lean mixture	2) Stoichiometric mixture
	3) Rich mixture	4) I <sub>oo</sub> lean mixture
		•••
142.	The injector valve opening pressure of	
	1) 50 bar to 100 bar	2) 100 bar to 150 bar
1	3) 150 bar to 250 bar	4) 250 bar to 350 bar
143.	The cone angle of a pintle nozzle varies	from -
	1) 0° to 30°	2) 0° to 40°
	3) 0° to 50°	4) 0° to 60°
144.	Precombustion chamber engines produ	ce -
	and the same of th	2) Low mean effective pressure
	3) Moderate mean effective pressure	4) Very high mean effective pressure
	Firing order of a six cylinder engine is :	•
	1) 1-4-3-6-5-2	
	3) 1-5-4-6-2-3	2) 1-3-4-2-5-6 4) 1-5-3-6-2-4
	3) 1-3-4-6-2-3	4) 1-3-3-6-2-4
	Cranking circuit voltage drop tests are	
_	High resistance	2) Bad starter drive units
	3) Weak batteries	4) A short in the starter motor
147.	The aspect ratio on modern standard pa	nssenger car tyres ranges between -
	1) 10 and 20	2) 80 and 50
	3) 100 and 45	4) 25 to 50
	148. The tyre's designation is stamped on the sidewall as 175/70 R 13 82 S. The number 13 refers to -	
	1) Tyre width	2) Rim diameter
:	3) Load index	4) Aspect ratio
149.	The purpose of the voltage regulator is	to -
		g 2) Allow the alternator to produce a high
	too high	current
		(h 4) Keep alternator voltage high enough to
		charge the battery
150.	The heat range of a spark plug is prima	rily determined by -
	1) The depth the electrodes enter the	2) The length of the lower insulator
	combustion chamber	7-7-1
	3) The number of ribs on the upper	4) The gap between the electrodes
	insulator	
151.	Disc brake self adjust when the lining w	ear allows the piston to -
	1) Contact the disc	2) Slide outward through the seal
	3) Cause seal deflection	4) Cause reposition of groove in the caliper

1) Stator

2) Brushes

3) Rectifier

4) Regulator

162. Thermistors are used in which components -

1) Fuel gauge sending units

2) Oil pressure sending units

31 Coolant temperature sensors

4) Temperature switches

163. Thrust bearing wear will cause excessive -

1) Crankshaft bending

2) Crankshaft vibration

3) Crankshaft endplay

4) Crankshaft speed

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164. The magnetic field in alternator is developed in the -		
1) Stator	2) Rotor	
3) Armature	4) None of these	
165. The alternator brush rides on a -		
Y) Slip ring	2) Commutator	
3) Rotor	4) Diode	
166. The magnetic field required for starting	motor operation is previded by the	
	2) Field-winding assembly	
3) Solenoid	4) None of these	
,	,	
167. The basic purpose of the overrunning clu		
I) Assist the solenoid during cranking	2) Pull the starter pinion gear out of mesh	
3) Disengage the armature when the engine	A) Veen the hold in winding energized	
starts	during cranking	
168. The ratio between the number of teeth or engine flywheel is about -	n the starter motor pinion gear and the	
1) 1 to 1	2) 1 to 5	
3) 1 to 20	4) 1 to 50	
169. A solenoid uses two coils. Their windings	are called -	
1) Push-in and pull-out	2) Pulf-in and push-out	
· •	4) Pull-in and hold-in	
170 The function of ignition coil in spork ign	ition system is to	
170. The function of ignition coil in spark ign:  1) Supply high voltage to spark plug	2) Supply low voltage to spark plug	
3) Distribute current	4) None of these	
,	,	
171. Exhaust gas leakage into the cooling syst	em is most likely to be due to defective -	
1) Cylinder head gasket	2) Manifold gasket	
3) Water pump	4) Radiator	
, ,	,	
172. If the water level in radiator is maintain	ed low, the likely consequence could be -	
1) Piston seizure	2) Engine knocking	
3) Bearing deterioration	4) All of these	
173. In the fluid coupling, the vortex flow is n	ayimum when the slin is '	
1) 20%	2) 50%	
3) 100%	4) 75%	
* /	· · · · · · · · · · · · · · · · · · ·	
174. When the clutch is disengaged - (i)Clutch plate will not rotate (ii)Flywheel and pre		
•	te, clutch shaft will not rotate (iv)Flywheel,	
clutch plate and clutch shaft will not rotate, only pressure plate rotates Of these		
statements -		
1) (i) alone is correct	2) (ii) alone is correct	
3) (i) and (ii) are correct	4) (iii) and (iv) are correct	

Αŀ	E INDUSTRIES - AUTOMOBILE	
175. In the torque convertor, (i) gear ratios are in geometric progression (ii) gear ratios are in arithmetic progression (iii) numerous no. of gear ratios are produced (iv) all the above Of these statements		
	1) (i) alone is correct	2) (ii) alone is correct
	3) (iii) alone is correct	4) (iv) alone is correct
176	. In an automobile car, Hooke's joint is t	ised between -
	1) Flywheel and clutch	2) Clutch and gear box
1	3) Gear box and propeller shaft	4) Differential gear and wheels
177.	The valve in the thermostat is opened a	and closed by the -
	1) Pressure linkage	2) Wax pellet
	3) Vacuum linkage	4) Bypass valve
178.	Two types of oil pumps in automotive e	engines are -
270	1) Gear and Piston	2) Rotor and Piston
	3) Gear and Rotor	4) Full flow and Bypass
170	To start the engine the starter motor ro	states the grank shaft about
175.	1) 3000 rpm	2) 4500 rpm
	3) 50 rpm	4) 200 rpm
180.	The number of amperes that the batter without cell voltages falling below 7.2 V  1) Charging rate  3) Cold cranking rate	
/	,	•
181. The key influencing variables concerning the adhesive behaviour of tyres on wet road surfaces are -		
	1) Driving speed	2) Tyre width
	3) Wheel load	4) All of these
182.	A clutch safety switch is:	
	1) Located in the motor feed circuit	2) Closed when the clutch pedal is pressed all the way to the floor
	3) In series with the control circuit	4) Both (B) and (C)
183.	If the engine cranks slowly but does no	t start, a possible cause is :
	1) Defective starter motor	2) Low temperature
	3) Driver has run-down the battery trying start	to 4) Any of these
184.	An open fault in the hold-in winding of cause -	a starter solenoid switch will most likely
	1) The battery to run down	2) The solenoid to move in and out (or)

3) The starter drive to remain engaged after 4) Excessively high current draw from the

starter

maximum

4) Wide-open throttle

2) Only after centrifugal advance reaches

the engine is running

1) Part throttle

3) Closed throttle

185. Maximum vacuum advance occurs at -

196. If the engine cranks slowly but does not start, a possible cause could be -

197. The centre of the head lights above the ground should be in the range of -

1) A run-down battery

3) Overcharged battery

1) 0.4 - 0.6 m

3) 1.0 - 1.2 m

4) Cross ply bolted tyres

2) Low temperature

4) All of these

2) 0.6 - 1.0 m 4) 1.2 - 1.6 m

#### AE INDUSTRIES - AUTOMOBILE

## 198. A cable is designated as 12/0.35. This represents -

1) 0.35 mm wire diameter and 12 mm

2) 0.35 mm wire radius and 12 mm length

length

3) 0.35 mm wire diameter and 12 wires

4) 12 wires of 0.35 mm pitch

## 199. The place where truck and bus lines have their own service shops is called -

1) Independent garages

2) Fleet garages

3) Specially garages

4) Service stations

## 200. In a three-way converter, the first converter controls -

1) Hydro carbon

2) Carbon monoxide

3) Oxides of nitrogen

4) All of these