## PART-I

1.	Which of the following statements is true with respect to the sensible cooling of air?
	a. It is a process in which only the sensible heat of the air is removed and there is no change
	in the moisture content.
	h. It is and of the most common psychrometric processes

- b. It is one of the most common psychrometric processes.
- c. There is overall reduction in the enthalpy of the air.
- d. All the above
- 2. Which of the following effects the laminar-turbulent transition?
  - a. The transition happens when the viscosity of the fluid is decreased.
  - b. The transition happens when the density of the fluid is increased.
  - c. Both a and b
  - d. None of these
- 3. What is a perfect black body?

a. It is an idealized physical body that absorbs all incident electromagnetic radiation, regardless of frequency or angle of incidence.

b. It is an idealized physical body that absorbs all incident ultra violet radiation, regardless of angle of incidence.

c. It is an idealized physical body that absorbs all incident gamma ray radiation, where the angle of incidence is 90°.

- d. None of these
- 4. Which law of thermodynamics defines the concept of thermodynamic entropy?
  a. Zeroth law
  b. First law
  c. Second law
  d. Third law
- 5. Which of the following is true with reference to bypass factor?
  - a. Bypass factor decreases as contact factor increases
  - b. Bypass factor is independent of contact factor
  - c. Bypass factor decreases as contact factor decreases
  - d. Bypass factor is the log of contact factor
- 6. Which of the following has the lowest Prandtl number?
  - a. Air
- b. Hydrogen
- c. Water

d. Mercury

- 7. What is the sensible heat factor if Hs=sensible heat gain=36kJ/s and HL=Latent Heat Gain = 24
  - a. 0.15
- b. 1.50
- c. 0.6

d. None of these

- 8. The system where a gas turbine is used to generate electricity, hot water and air conditioning, it is called
  - a. Aqua-thermal regeneration
- b. Cogeneration or Trigeneration
- c. Thermo-electric conditioning
- d. None of these
- 9. Which of the following effects the thermal diffusivity of material?
  - a. Specific heat capacity of the material
- b. External temperature

c. Pressure

d. All the above

10. Which of th	ne following metals has	the highest thermal	liffusivity?	
a. Aluminu	m b. Copper	c. Gold	d. Silver	
b. It is the c	avity created to facilitate avity created inside the bassage through which l	mould for smooth fl		
12. Which of the a. Cutting	ne following operations b. Sanding	can be carried out on c. Knurling	a lathe? d. All the above	
<ol> <li>Type of a</li> </ol>	e following needs to be lloy being cast nt on removing the cast	b. Size of the s		ces?
14. While casting a. Liquid shoc. Both a ar		ing shrinkages need t b. Solid shrink d. None of the	age	
15. Which of th a. Oxidizing c. Neutral fl		mes are desirable wh b. Reducing Fl d. Both a and b	ame	
newer refrig ozone layer. a. They are b. They are	erants which typically implicated in ozone depused as as refrigerants at them are banned or seve	include fluorine inste pletion. as well as aerosol pro		so include deplete the
17. What is the a. kJ	unit for measurement o b. Kj/kg	f enthalpy? c. Kg/kJ	d. None of the above	ve
a. It is a pro- and its sur b. It is a pro surroundir	roundings. cess where there is a tra ngs. cess where there is no to ngs.	nsfer of both matter	atter is transferred between and heat between a system ter between a system and i	and its
19. Which of the	e following use Braytor	Cvcle?		
a. Gas turbir	ne engines	b. Airbreathing		
c. Both a and	d b	d. None of the	above	
				2
	590	×		

20. Which of the following is true with respect to upset forging? a. Upset forging increases the diameter of the work-piece by increasing its length. b. Upset forging increases the diameter of the work-piece by compressing its length. c. Upset forging increases the diameter of the work-piece by melting and recasting it. d. None of the above 21. Which of the following statements is correct? a. In a concurrent force system, all forces lie on the same line. b. In a concurrent force system, all forces equal but work in opposite direction. c. In a concurrent force system, all forces pass through a common point. d. None of these 22. Which of the following is the point in a body around which the resultant torque due to gravity forces vanishes? b. Center of vanity a. Center of gravity d. Spherical center c. Center of torquelessness 23. Consider a semicircle with a radius r. Where exactly does its center of gravity lie? a. At a distance of  $2r/3\pi$  on its vertical radius measured from the base. b. At a distance of  $4r/3\pi$  on its vertical radius measured from the base. c. At a distance of  $4r/6\pi$  on its vertical radius measured from the base. d. At a distance of  $8r/9\pi$  on its vertical radius measured from the base. 24. Which of the following is true with respect to coplanar forces? a. Coplanar force systems can be concurrent and parallel. b. Coplanar force systems can be non-concurrent and non-parallel. c. Coplanar force systems have all the forces acting in in one plane. d. All the above 25. If AMA is the actual mechanical advantage and and IMA is the ideal mechanical advantage of a machine, then the efficiency (E) is given by b. E = (IMA).(AMA)a. E = IMA/AMAd. None of the above c. E = AMA/IMA26. A body with mass 900 kg is located on a 15 degrees inclined plane. What is the pulling force without friction? d. None of these c. 900 N b. 1703 N a. 2285 N

27. What is the SI unit of measurement of angular velocity?

a. Meters per second

b. Radians per second

c. Ln of Radiance per hour

d. Km per hour

28. The efficiency of a machine is always between

a. 0 and infinity

b. -1 and +1

c. 0 and 1

d. Minus infinity to plus infinity

29. Which of the following methods can be used to fasten a gusset plate to a permanent member?  a. Using bolts  b. Using rivets  c. Both a and b  d. None of these	
<ul> <li>30. Which of the following is a measure of a circular beam's ability to resist torsion?</li> <li>a. Polar moment of inertia</li> <li>b. Moment of inertia</li> <li>c. Angular acceleration</li> <li>d. None of these</li> </ul>	
<ul><li>31. Which of the following is true for a simply supported beam with a central load?</li><li>a. The bending moment is at the supports</li><li>b. The bending moment at the center is minimum</li><li>c. The bending moment at the center is maximum</li><li>d. None of these</li></ul>	*
<ul> <li>32. Which of the following describes caulking?</li> <li>a. Caulking is the process used to make riveted iron or steel ships and boilers watertight or steam-tight.</li> <li>b. Caulking is the process used to make iron or steel ships and boilers rust-proof.</li> <li>c. Caulking is the process used to make iron or steel ships reduce the resistance while moving in water.</li> <li>d. Caulking is the process used to make riveted iron or steel ships to reduce the listing while navigating rough seas.</li> </ul>	
33. Energy stored in a body when strained within elastic limits is called a. Elastic energy b. Strain energy c. Both a and b d. None of these	ń.
<ul> <li>34. Which of the following is true with Euler's formula for columns?</li> <li>a. It helps us calculate the critical load for a long, slender and ideal column.</li> <li>b. It helps us calculate the slenderness ratio for a long, slender and ideal column.</li> <li>c. It helps us calculate the age at which a long, slender and ideal column is likely to buckle.</li> <li>d. It helps us calculate the probability distribution of the load for a long, slender and ideal column.</li> </ul>	
35. What is the SI unit for shear stress?  a. Jhoule b. Pascal c. Newton d. Pascal/ S <sup>2</sup>	÷
<ul><li>36. Which of the following is true in an isothermal process?</li><li>a. There is no change of a system, but there is a change in the temperature.</li><li>b. There is a change of a system, leading a corresponding change in the temperature.</li><li>c. There is a change of a system, in which the temperature remains constant.</li><li>d. None of these</li></ul>	
<ul> <li>37. Which of the following is true with respect to Kelvin-Planck statement?</li> <li>a. It implies that it is impossible to build a heat engine that has 100% thermal efficiency.</li> <li>b. It implies that there exists a theoretical heat engine that has a thermal efficiency of more than 100%.</li> <li>c. It implies that each and every heat engine will invariably have a 100% thermal efficiency.</li> <li>d. None of these</li> </ul>	
4	

38.	What is the gas constant (R)?  a. It is work per degree per mole  c. It is work measured as Joule	b. It is work per mole d. It is change in temperature	e ner mole
		-	•
39.	Which of the following is the correct state $T = \text{temperature}$	atement of Boyle's law? (P= p	ressure, V= volume and
	a. $PV = 0$ when T is constant	b. $PV = k$ when T is constant	t
	c. PV = T	d. PVT = 0	
40	. What is isochoric process?		
	<ul><li>a. It is a constant volume process</li><li>b. It is a constant pressure process</li></ul>		
	c. It is a constant temperature process d. It is a process where volume, pressur	e and temperature remain con	stant through out
41	One of the 4 laws of thermodynamics s respectively with a third system, they me Which law is it?	nust be in thermal equilibrium	with each other".
	a. Zeroth law of thermodynamics	<ul><li>b. First law of thermodynan</li><li>d. Third law of thermodyna</li></ul>	nics
	c. Second law of thermodynamics		*
42	. Which is the class of lever where Resis	tance or load is in the middle? c. Class 3 d. Al	the above
	a. Class 1 b. Class 2	c. Class 5	
43	<ul> <li>Which of the following is true with beva. They are gears where the axes of the</li> </ul>	vel gears?	
	h The tooth hearing faces of the gears	themselves are conically shap	ed.
	c. They are most often mounted on sha d. All the above	ifts that are 90 degrees apart.	
44	<ul><li>What is the function of a cam?</li><li>a. It transforms rotary motion into line</li></ul>	ar motion	
	b. It transforms linear motion into rota	ry motion	
	c. Both a and b d. None of these		
4	5. In which of the following cams does the	ne follower move in a plane po	erpendicular to the axis
4.	of rotation of the camshaft?		d. None of these
	a. Radial or plate cam b. Cylindric		
4	6. Which of the following belts is used to	o continuously carry a load be elt c. Both a and b	tween two points.  d. None of the above
	a. Conveyer belt b. Timing b		
4	7. Which of the following simple machin	nes converts rotational motion	to linear motion, and a
	torque (rotational force) to a linear for a. Lever b. Screw	c. Belt	d. All the above
	a. Level		

	48. Which of the following examples belongs to type 3 a. Scissors b. Wheel barrow c.	3 lever? Nutcracker	d. Human mandible
49.	<ul><li>49. Which of the following does not have piton strokes</li><li>a. Two stroke engine</li><li>b. Wankel engine</li><li>c.</li></ul>	s? Both a and b	d. None of these
50.	50. Which of the following cycles is also known as cor a. Carnot cycle b. Otto cycle c.	nstant volume cycle? Both a and b	d. None of these
51.	51. What is the name by which the following theorem 'reservoirs can be more efficient than a Carnot enging reservoirs' is known?  a. Carnot's theorem  b. Otto cycle. Theorem of energy conservation  d. None of	ne operating between	
52.	52. What is the name of the process used to reduce the a. Smelting b. Tempering c. 6		ng heat treatment?  d. None of these
53.	53. Which of the following will increase the efficiency a. Increasing the compression ratio b. Decreas c. Decreasing the pressure d. None of	sing the compression	ratio
54.	<ul> <li>54. Which of the following is true with heat engines?</li> <li>a. They transform magnetic energy into heat energy</li> <li>b. They transform thermal energy into magnetic ene</li> <li>c. They transform mechanical energy into heat energy</li> <li>d. They transform thermal energy into mechanical e</li> </ul>	ergy. gv.	
55.	<ul> <li>55. Which of the following defines petrol with an octang a. Petrol with the same knocking characteristics as a heptane.</li> <li>b. Petrol with the same knocking characteristics as a heptane.</li> <li>c. Petrol with the same knocking characteristics as a heptane.</li> <li>d. None of these.</li> </ul>	mixture of 90% iso- mixture of 10% iso-	octane and 90%
56.	56. As compared to Watt governor, Porter Governor has a. Less sleeve weight b. Larger or c. Lower centrifugal force d. Same centrifugal	s entrifugal force ntrifugal force	
	<ul> <li>57. When is a governor said to be isochronous?</li> <li>a. When the governor is in equilibrium in all possible speed.</li> <li>b. When the governor is in equilibrium at a specific s maximum.</li> <li>c. When the speed of the engine fluctuates continuou d. None of these</li> </ul>	e configurations at th	efficiency is

58. When the speed of the engine fluctuates continuously above and below the mean speed, then the governor is said to be				
a. Stable b. Hunt	c. Ground	d. Damped		
<ul><li>59. Which of the following is a cause for via. Imbalances in the rotating parts</li><li>c. Meshing of gear teeth</li></ul>	brations in an engine? b. Uneven friction d. All the above	# *		
60. What is the effect of temperature on the a. Their thermal conductivity increases b. Their thermal conductivity decreases c. Their thermal conductivity is independ. The effect of temperature on their the pressure.	with increase in temper with increase in temperature of changes in terminate with the contract of the contract	erature. erature. nperature.		
61. What are the constituent elements in br	ass?			
a. Copper and aluminum	b. Copper and zinc			
c. Copper and arsenic	d. Copper and silico	n		
c. Copper and arsome				
62. Which of the following are thermoplas:	tic nolymers?			
a. Acrylonitrile butadiene styrene	b. Polyethylene			
c. Polyvinyl chloride	d. All the above			
c. Polyvinyi chloride	d. All the above			
63. In addition to Austenite, which other elaustenitic stainless steel?				
a. Aluminum and copper	b. Aluminum and n	ickel .		
c. Chromium and nickel	d. None of these	6 2		
<ul> <li>64. What is a sclerometer?</li> <li>a. It is an instrument used to measure so</li> <li>b. It is an instrument used to measure so</li> <li>c. It is an instrument used to measure so</li> <li>d. It is an instrument used to measure so</li> </ul>	scratch hardness of ma cavities formed during	casting.		
<ul><li>65. Which of the following is an allotrope</li><li>a. Diamond</li><li>b. Graphite</li></ul>	of carbon? c. Fullerene	d. All the above		
<ul><li>66. Graphite is an example of</li><li>a. Hexagonal crystal system</li><li>c. Orthorhombic crystal system</li></ul>	b. Monoclinic cryst d. None of these	tal system		
<ul> <li>67. What is smelting?</li> <li>a. It is a process where water is used to</li> <li>b. It is a process where the ore is power.</li> <li>c. It is a process where heat and a cheet.</li> <li>d. None of these</li> </ul>	dered and concentrated	i in a centinuge.		

- 68. What is the SI unit of measurement of resilience? a. Joule per cubic meter b. Joule per meter c. Joule per kilogram d. Joule per second 69. Which of the following statements is true? a. Normalized steel has a lower strength than annealed steel. b. Normalized steel has a higher strength than annealed steel. c. Normalized steel has a same strength as annealed steel. d. Normalized steel has a high degree of softness. 70. In which of the following can dye penetrant inspection is used? a. To locate surface-breaking defects in all non-porous materials. b. To locate surface-breaking defects in all porous materials. c. To locate internal cavity defects in all porous materials. d. None of these Part II Section - A: Mechnical 71. Cemented carbides are an example of composed of a metal matrix composite a. Metal alloys b. Metal matrix composite c. Rare earth metals d. None of these 72. A cylindrical grinder can be used for a. Outside diameter grinding b. Inside diameter grinding c. Both a and b d. None of these 73. Which of the following is true with respect to titanium alloys? a. They have very high tensile strength. b. They are light in weight, have extraordinary corrosion resistance. c. They have the ability to withstand extreme temperatures. d. All the above 74. Which of the following processes is used by lensmakers to produce surfaces that are flat to better than 30 nanometers? a. Lapping b. Casting c. Forming d. None of these 75. Which of the following is used in Ultrasonic machining, or ultrasonic impact grinding? a. Abrasive slurry b. A tool oscillating at ultrasonic frequencies
- 76. What is the name of the process where a permanent mold is rotated continuously about its axis at high speeds as the molten metal is poured into it?

d. None of these

a. Round robin casting

c. Both a and b

b. Circular axis casting

c. Rotocasting or Centrifugal casting

d. None of these

77. Recrystallization process is generally t	sed when	
<ul> <li>a. Softening of metals previously harde</li> </ul>		
b. Hardening of metals previously soft	ened by ductile work is req	uired
c. Both a and b		
d. None of these		
78. What are extrudates?		
a. These are products external to the ite	ems being cast.	
b. These are items produced through e		
c. These are items having external cavi		
d. All the above		
79. Which of the following can be extracted	ed from its ore through sme	elting process?
a. Silver b. Iron	c. Copper d	. All the above
a. Silvei	c. coppu	
80. What is mesomorphous state?		
a. It is a state where the same element pressure.	exists in different forms at	the same temperature and
b. It is same as amorphous state.		314
c. It is a state between the true crystall	ine state and the completel	y irregular amorphous state
d. None of these	3 77 25 7	
81. An object sitting on a sloped surface is a. Kinetic friction b. Static fric	s prevented from sliding do tion c. Fluid friction	d. None of these
82. Which of the following is true with re-	enect to the coefficient of f	riction?
a. It is the ratio of the force of friction	between two bodies and th	ne force pressing them
together.	DOLINGON CING COURSE UNIO	
b. It is a dimensionless scalar value.		
c. It depends on the materials used.		
d. All the above	esno≥ 5	×, '
83. What is the SI unit for angular acceler	ation?	
a. Meters per second	b. Radiance per meter	
c. Radiance per second <sup>2</sup>	d. Degrees per second	
84. The ratio of the output force to the inp	ut force is known as	
a. Force augmentation	b. Mechanical advantag	ge
c. Strength ratio	d. None of these	9 *
85. A torsion pendulum uses	* ************************************	
a. Gravitational force	b. Force of the twisting	torsion spring
c. Force of a magnetic field	d. All the above	
C. Tolec of a magnetic more		
	91	** , ** /

ac Quantitative calculations of dynamics at	pout how velocities change when forces are applied
for a given mass can be done by using	
a. Newton's first law of motion	b. Newton's second law of motion
c. Newton's third law of motion	d. None of these
C. HOWIGH S MAN -	
87. What is one Newton?	s the mate of kilo meter per
	ate 1 kilogram of mass at the rate of kilo meter per
second squared.	rate 1 gram of mass at the rate of 1 meter per second
	ate 1 grain of mass at the fate of 1 messar
squared.	rate 1 gram of mass at the rate of 1 millimeter per
bonous 1 amound	
d Newton is the force needed to acceler	rate 1 kilogram of mass at the rate of 1 meter per
second squared.	
•	
88. What is wet bulb temperature?	111 : 6:4 and ad to 100% relative hymidity)
a. It is the temperature a parcel of air wo	ould have if it were cooled to 100% relative humidity) rith the latent heat being supplied by the parcel.
by the evaporation of water into it, w	ould have if it were cooled to 75% relative humidity)
by the evaporation of water into it w	with the latent heat being supplied by the parcel.
c It is the temperature a parcel of air we	ould have if it were cooled to 50% relative humidity)
by the evaporation of water into it, w	rith the latent heat being supplied by the parcel.
d. None of these.	Tax and the second second
	44 (4 (3 (3 (4 (3 (3 (4 (3 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4
89. In which of the following do you find a	n air cycle machine (ACM)?
a. Air-conditioned buses c. Small motor vehicles	b. Gas turbine-powered aircraft d. All the above
c. Small motor vehicles	d. All the above
90. Which of the following is an example of	of bootstrap operation?
a. Gas turbine engines used in aircrafts	b. Wankel engine
c. Steam engine	d. None of these
	100 1 1 1 1
	100cc hydraulic pump if the flow out of a pump is
90cc per revolution? a. 111% b. 90% c. 0.9	0% d. None of these
u. 11170 0. 9070 C. 0.9	d. None of these
92. An air compressor is a device that conv	verts power from an electric motor, a diesel engine or a
	utting it to use.
a. Potential energy	b. Electrical energy
c. Acoustic energy	d. None of these
93. Which of the following is true with res	nect to jet engines?
a. It is a reaction engine.	
b. It generates thrust by jet propulsion	in accordance with Newton's laws of motion.
c. Both a and b	
d. None of these	

	Which of the following ca a. Diesel engine	n be categorized b. Electric motor	as a re	Rocket engine	d. None of these
	What is the SI unit of mea a. Joule per metre c. Joule per kilogram	b	. Joule	ghness? per second per cubic metre	
96.	The progressive and local	ized structural d	amage	hat occurs when a m	aterial is subjected to
	cyclic loading is called _ a. Shrinkage	b. Fatigue		e. Break-even point	
97.	What is the difference be a. Ductility is a solid mat a material's ability to do b. The two are one and th c. Ductility applies to sol d. Malleability applies to	erial's ability to o eform under com le same. ids where as mal	deform pressiv deabilit	under tensile stress v e stress. y applies to fluids.	/here as malleability i
98.	A close nipple can be un a. Pipe wrench	screwed, without b. Stillson wret	t damag nch	ging the threads, by u c. Nipple wrench	d. None of these
99	. The indentation hardness a. Prandtl Scale	of materials car b. Brinell Scale	n be cha	racterized by c. Denting Scale	d. None of these
10	0. Silicon carbide can b	e extracted from	which c. Mol	of the following mir ybdenum oxide	nerals? d. Malectite

## Section - B: Automobile

<ol> <li>The information provided by the oxygen the</li> </ol>	n (O <sub>2</sub> ) sensor to the feedback control system is about
<ul><li>a. Air temperature</li><li>c. Exhaust gas volume</li></ul>	<ul><li>b. Air flow speed</li><li>d. Air – fuel ratio</li></ul>
72. For a diesel engine, the compression rate a. 6 - 10 b. 10 - 15	io is generally in the range of c. 15 - 25 d. 25 - 40
73. The rear tyres in a vehicle provide a. Speed b. Stability	c. Ability to turn d. None of the above
74. The most widely used cranking motor dr a. Barrel type b. Over running clutch	
75. The coefficient of friction for the clutch a. 0.1 b. 0.4	facing is approximately c. 0.8 d. 1.2
76. The calorific value of diesel is about a. 36.5 MJ/kg b. 38.5 MJ/kg	c. 42.5 MJ/kg d. 45.5 MJ/kg
77. The clutch is located between the transm a. Engine b. Real Axle	ission and the c. Propeller shaft d. Differential
78. A tubeless tyre is better than a tyre with to a. There is slow air leakage c. There is a reduced change of running for	b. There is better fuel efficiency
<ul><li>79. If the valve clearances are excessively lar</li><li>a. Overheating of the engine</li><li>c. Fouling of spark plug by fuel</li></ul>	rge, the problem that can arise is b. Incomplete valve closure d. None of these
80. The motion of the cam is transferred to va a. Rocker arms b. Pistons	alves through c. Cam shaft d. Valve stems
<ul><li>81. The oil pump is driven by the</li><li>a. Cam shaft</li><li>c. Crank shaft directly</li></ul>	<ul><li>b. Alternator shaft</li><li>d. Crank shaft via drive belt</li></ul>
<ul><li>82. Cylinder blocks use aluminum alloy becar</li><li>a. No cylinder liners are required</li><li>b. The piston is also made of aluminum al</li><li>c. The material cost is low</li><li>d. It is lighter and also has good heat dissi</li></ul>	lloy

<ul> <li>83. The compression ratio in the diesel engine is higher than that of the petrol engine because <ul> <li>a. It makes the petrol engine lighter</li> <li>b. Due to pre – ignition, it is not possible to have higher or equivalent compression ratios in petrol engines</li> <li>c. Less compression ratio gives better performance</li> <li>d. None of the above</li> </ul> </li> </ul>					
84. The steering rod a. The tie rod	is connected to the knu b. The spline	c. The pivot	d. The sector gear		
85. How many exhau	nst manifolds does a V b. 2	6 engine have? c. 3	d. 4		
<ul><li>a. Prevents the co the cylinder ble</li><li>b. Prevents engine</li><li>c. Removes impute</li></ul>	<ul> <li>86. The cylinder head gasket</li> <li>a. Prevents the combustion gasses from leaking from the joint between the cylinder head and the cylinder block.</li> <li>b. Prevents engine oil from going in to the combustion chamber.</li> <li>c. Removes impurities from the cylinder head lubricating oil.</li> <li>d. None of the above.</li> </ul>				
87. The cam shaft of a. 500 rpm	a 4 stroke diesel engir b. 1000 rpm	ne running at 1000 rpn c. 2000 rpm	n will run at d. 4000 rpm		
a. Ensure that the b. Ensures reduce	88. Ball joints are used at the end of the tie rods. This is because these joints a. Ensure that the noise generated is reduced b. Ensures reduction in the amount of the sliding resistance c. Improves the force transmission speed d. Deal with the movements of the suspension vertically as well as in other directions				
<ol> <li>Carbon disulp</li> </ol>	<ul> <li>89. The most commonly used anti-freeze solution in automobiles is</li> <li>a. Carbon disulphide</li> <li>b. Ethylene glycol</li> <li>c. Ammonium chloride</li> <li>d. Freon – 12</li> </ul>				
<ul> <li>90. When a vehicle is turning a corner</li> <li>a. The front wheels are toeing put</li> <li>b. The front wheels are on different angles</li> <li>c. The inside front wheels have a greater angle than the other wheels</li> <li>d. All of the above</li> </ul>					
a. Gravity	91. The force – fed lubrication system implies that oil is delivered to the engine by a. Gravity b. The pressure created by the oil pump c. Splashing action of the crankshaft d. None of the above				
a. Bore and strol	92. The size of an engine cylinder is expressed in terms of its  a. Bore and stroke b. Diameter and bore c. Bore and length d. Displacement and efficiency				

	<ul><li>a. Supplies electricity to t</li><li>b. Acts as a reservoir of e</li><li>c. Supplies a large amour</li><li>d. Supplies electricity to t</li></ul>	electricity nt of power to turn the	starter motor when the	e engine is being started
94.	The octane number of coa. 90	mpressed natural gas ( b. 100	CNG) is c. 110	d. 120
95.	The most commonly used a. Gas turbine	l power plants in autor b. Battery	nobiles is c. I. C. engine	d. None of these
96.	For a diesel engine, the dicalled a. Delay period	uration between the tir		time of ignition is d. Spill cut – off
97.	Which of the following da. Torque convertor	evices smoothens out t b. Differential	he power impulses fro c. Flywheel	m the engine d. Clutch
98.	The heat transfer from co a. Radiation only c. Convection and Radiat	b. Con	tor of an automobile exvection only duction, Convection ar	
99.	The piston compression r a. Cast iron	ings are made of b. Steel	c. Aluminum	d. Bronze
100	). The crescent-shaped of a. Snap ring		nd top surface is called c. Piston oil hole	as d. Valve clearance

93. The battery in an automobile primarily