Iti

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86.67% 130 / 150

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Attempt No.	#1	Completion Time	01:50 PM
Rank	#1	Total Questions	150

130 SCORE	**150** MAX MARKS	**130** CORRECT	**20** INCORRECT

Answer Review

Q1 CORRECT When did first car rolled in the street of Calcutta?

A. 1810

B. 1887 ✓

C. 1910

D. 1950

Q2 INCORRECT Which year Hindustan motor established ambassador car industry in India?

A. 1900

B. 1900

C. 1940 ✗

D. 1980 ✓

Q3 CORRECT Which type of brake used in heavy vehicle parking?

A. Hydraulic

B. Mechanical ✓

C. Electrical brake

D. Pneumatic brake

Q4 CORRECT Which ministry of India regulate the motor vehicle activity?

A. Minister of finance

B. Minister of defence

C. Minister of rural and development

D. Minister of road transport and highways ✓

Q5 CORRECT Which service equipment is used to lift a car?

A. Arbor press

B. Hydraulic valve

C. Hydraulic hoist ✓

D. Hydraulic press

Q6 CORRECT Which equipment used for quick inspection under chassis of a car?

A. Stand

B. Screw jack

C. Trolley jack ✓

D. Two post hoist

Q7 INCORRECT Where the emulsion tube is provided in solex carburetor?

A. Choke

B. Idle jet

C. Main jet

D. Cold starter

Q8 CORRECT What is the specification of 6J x 15?

A. Tyre size

B. Engine size

C. Vehicle size

D. Wheel rim size

Q9 CORRECT Which digit indicate the engine type in 17 digit of win number?

A. 2 digit

B. 3 digit

C. 5 digit

D. 8 digit

Q10 CORRECT How the amount of work done in a specification is called?

A. Torque

B. Power

C. Stroke length

D. Cycle

Q11 INCORRECT Which engine has more length?

A. Opposed engine □

B. 'V' engine

C. Inline engine □

D. Radial engine

Q12 CORRECT Which is the engine having cylinders in 180 Degree?

A. Inline engine

B. V- engine

C. Opposed engine □

D. Radial engine

Q13 CORRECT How can identify a four stroke engine?

A. Valves □

B. Ports

C. Cavities

D. Passages

Q14 CORRECT What is the working cycle of compression ignition engine?

A. Diesel cycle □

B. Otto cycle

C. Sterling cycle

D. Rankin cycle

Q15 CORRECT How the ports are opened and closed in two stroke engine?

A. Movement of valve

B. Movement of Rocker arm

C. Movement of piston □

D. Movement piston pin

Q16 CORRECT How many crank shaft rotation required to open exhaust valve one time in four stoke engine?

A. One

B. Two □

C. Three

D. Four

Q17 CORRECT What is the volume of the space above the piston at TDC?

A. Swept volume

B. Clearance volume □

C. Total volume

D. Displace volume

Q18 CORRECT How many times, ports are open in two rotation of crank shaft in two stroke engine?

A. One time

B. Two times □

C. Three times

D. Four times

Q19 CORRECT Where is the air fuel mixture compressed in the two stroke petrol engine?

A. Intake port

B. Exhaust port

C. Transfer port

D. Combustion chamber

Q20 CORRECT How many crank shaft rotations required to get one power in four stroke single cylinder diesel engine?

A. One

B. Two

C. Three

D. Four

Q21 CORRECT What is the angle of throw for 4 cylinder engine?

A. 60 Degree

B. 90 Degree

C. 120 Degree

D. 180 Degree

Q22 CORRECT Which is used to determine the stroke of an engine?

A. Cycle

B. Throw

C. Dia of piston

D. Length of connecting rod

Q23 CORRECT How the set of operations perfermed in sequence of motion of the piston in an engine produce power is called?

A. Cycle □

B. Stroke

C. Stroke

D. Efficiency

Q24 CORRECT Which is the compression pressure of C.I engine?

A. 90 to 160 psi

B. 180 to 280 psi

C. 290 to 390 psi

D. 400 to 550 psi □

Q25 CORRECT Which is the engine called as constant volume cycle?

A. S.I engine □

B. C.I engine

C. Turbine engine

D. Steam engine

Q26 CORRECT A cycle consisting of one constant pressure, one constant volume and two isentropic processes is known as

A. Constant volume

B. Constant pressure

C. Diesel Cycle □

D. Isothermal

Q27 CORRECT A cycle consisting of one constant pressure, one constant volume and two isentropic processes is known as

A. Constant volume

B. Constant pressure

C. Diesel Cycle □

D. Isothermal

Q28 CORRECT How can identify a two stroke engine?

A. Valves

B. Ports □

C. Cavities

D. Passages

Q29 CORRECT What is the compression ratio of an engine, its clearance volume is 10 c.c and swept volume is 90 c.c?

A. 08:01

B. 09:01

C. 10:01 □

D. 11:01

Q30 CORRECT Which is the power developed in an engine?

A. BHP

B. IHP □

C. IHP

D. RHP

Q31 CORRECT What is the stroke length of the engine if its throw of the crankshaft is 40 mm?

A. 20 mm

B. 40 mm

C. 60 mm

D. 80 mm

Q32 INCORRECT When the valve clearance to be adjusted?

A. Fully closed

B. Partially closed

C. Fully opened

D. Just opened

Q33 CORRECT Which is the starting system used in heavy vehicles?

A. Electric motor cranking

B. Hand cranking

C. Gasoline engine cranking

D. Compressed air cranking

Q34 CORRECT Which engine has fuel injection pump?

A. Petrol engine

B. Diesel engine

C. CRDI engine

D. MPFI engine

Q35 CORRECT Which engine has carburetor?

A. Petrol □

B. Diesel

C. Kerosene

D. Mineral oil

Q36 CORRECT What is the mechanical efficiency of an engine?

A. (BHP/IHP)x100 □

B. (BHP/FHP)x100

C. (IHP/BHP)x100

D. (FHP/BHP)x100

Q37 CORRECT What is the process of driving exhaust gases in two stroke engine out of cylinder?

A. Combustion

B. Super charging

C. Scavenging □

D. Intaking

Q38 CORRECT Why suction tube in the tank is raised above?

A. To enter air

B. To avoid suction of water in fuel □

C. To enter condensed water

D. To act atmospheric pressure

Q39 CORRECT What is the purpose of valve in AC fuel pump?

A. Creating suction

B. Creating pressure

C. Supply correct quantity of fuel

D. Allow the fuel to suck and deliver □

Q40 CORRECT Which causes the air enter into cylinder?

A. Air filtering

B. Engine vacuum □

C. AC fuel pump pressure

D. Carburettor air-horn pressure

Q41 INCORRECT How the AC mechanical pump's fuel delivery pressure is determined?

A. Spring pressure on diaphragm □

B. Maximum stroke of diaphragm □

C. Size of the pumping chamber

D. Maximum deflection of diaphragm

Q42 CORRECT What is the purpose of needle valve in carburetor?

A. Decrease the fuel pressure

B. Excess supply of fuel at idle

C. Always holds correct level of fuel □

D. Controls the air flow of the engine

Q43 CORRECT What is the purpose of throttle valve in the carburetor?

A. Filter the fuel

B. Always holds correct fuel

C. Excess supply of fuel at idle

D. Controls air fuel mixture into the engine □

Q44 CORRECT What is the purpose of accelerating pump circuit?

A. Provides an economic mixture

B. Provides mixture for low speed

C. Provides mixture for idle speed

D. Provides extra fuel during pick up speed □

Q45 CORRECT Which device is vaporizing of fuel and mixing it with air in petrol engine?

A. Tank

B. Fuel filter

C. Carburetor □

D. AC fuel pump

Q46 CORRECT Which of the following fuel quality determines burning property of petrol?

A. Volatility

B. Viscosity

C. Cetane number

D. Octane number □

Q47 CORRECT Which of the following fuel quality determines burning property of diesel?

A. Volatility

B. Viscosity

C. Cetane number ✓

D. Octane number

Q48 CORRECT Which of the following fuel quality determines to evaporate?

A. Volatility ✓

B. Viscosity

C. Cetane number

D. Octane number

Q49 CORRECT Which of the following fuel quality determines fuel to flow?

A. Volatility

B. Viscosity ✓

C. Cetane number

D. Octane number

Q50 CORRECT Which association of india is playing crucial role in less pollution?

A. AAI (Automobile Association of India)

B. AIA (Automotive industry Association)

C. AASI (Automobile Association if South India)

D. ARAI (Automotive research association of India) ✓

Q51 CORRECT How many national automotive testing and R&D infrastructure projects (NATRIP) are established in India?

A. 4

B. 5

C. 6

D. 7 □

Q52 CORRECT How many flywheel rotation requries to compelet one cycle in two stroke engine?

A. One □

B. Two

C. Three

D. Four

Q53 CORRECT What is heat?

A. Torque

B. Force

C. Energy □

D. Velocity

Q54 CORRECT What is indicated horse power?

A. Power developed in the cylinder □

B. Power developed in the flywheel

C. Power developed in the propeller shaft

D. Power developed in the wheel

Q55 CORRECT What is brake horse power?

A. Power available at fly wheel □

B. Power available at the cylinder

C. Power available at the wheels

D. Power available at the gear box

Q56 CORRECT What is the formula for Frictional horse power (FHP)?

A. IHP - BHP □

B. IHP + BHP

C. IHP / BHP

D. BHP / IHP

Q57 CORRECT Which oil is used in cooling system?

A. Lubricant oil

B. Mineral oil

C. Coolant oil □

D. Hydraulic oil

Q58 INCORRECT Which one is the properties of lubricant

A. Boiling temperature should be low

B. Should develop foam

C. Oil viscosity should not be same in hot and cold condition □

D. Oil viscosity should be suit the operating conditions □

Q59 CORRECT Which part drives the oil pump?

A. Crank Shaft

B. Cam Shaft

C. Crank pulley

D. Timing gears

Q60 CORRECT Which part is lubricated by splash lubrication system?

A. Timing gears

B. Main journal

C. Crank pin

D. Cylinder wall

Q61 CORRECT How oil deliver from the crank shaft main bearings to connecting rod bearings?

A. Through drilled oil passages

B. Through crank pulley

C. Through sprocket

D. Through vibration damper

Q62 CORRECT What is the purpose of a radiator pressure cap?

A. Release the excess pressure

B. Maintain the water temperature

C. Retain the vacuum pressure

D. Retain the atmospheric pressure

Q63 CORRECT What is the purpose of water pump in cooling system?

A. Force the water circulation

B. Reduce the water pressure

C. Increase the water temperature

D. Flushing out the cooling system

Q64 CORRECT Which part is used to pump the water in water pump?

A. Bearing

B. Shaft

C. Pulley

D. Impeller

Q65 CORRECT What is the effect if thermostat valve is struck?

A. Engine gets over cooling

B. Engine gets over heating

C. Engine does not start

D. Engine does not stop

Q66 CORRECT Where heat dissipation take place in cooling system?

A. Radiator

B. Water pump

C. Water jackets

D. Fan

Q67 CORRECT Which type of pump is used in water cooling system?

A. Gear pump

B. Diaphragm pump

C. Centrifugal pump □

D. Reciprocating pump

Q68 CORRECT How many valves are used in radiator cap?

A. One valve

B. Two valves □

C. Three valves

D. Four valves

Q69 CORRECT Which part allows to flow water from upper tank to lower tank of the radiator?

A. Fins

B. Core tubes □

C. Water pump

D. Bottom hole

Q70 CORRECT What is the purpose of the radiator in the cooling system?

A. Cool the hot air

B. Cool the hot oil

C. Cool the hot water □

D. Cool the water pump

Q71 CORRECT What is the purpose of metal fins in air cooling system?

A. Supply the heat

B. Increase the heat

C. Reduce the heat □

D. Maintain the heat

Q72 INCORRECT Where the metal fins are provided in the air cooled engine?

A. Cylinder and head □

B. Exhaust pipe

C. Valve door

D. Intake manifold □

Q73 CORRECT Which types of cooling system the rate of cooling is very low?

A. Thermo siphon system □

B. Air cooling system

C. Forced feed system

D. Pump circulation system

Q74 CORRECT How the water pump get drive in pump circulation cooling system?

A. By belt □

B. By gear

C. By chain

D. By coupling

Q75 CORRECT Which mixture is used in radiator reverse flushing cleaning?

A. Flushing water with air (gun) pressure

B. Flushing water with engine oil

C. Flushing water with coolant oil

D. Flushing water with soap oil

Q76 INCORRECT When the thermostat valve open in engine?

A. Low temperature of engine

B. High temperature of engine

C. Operating temperature of engine

D. Freezing temperature of engine

Q77 CORRECT Which part helps to increase the water boiling point in water cooling system?

A. Radiator core tubes

B. Radiator fins

C. Radiator hose

D. Radiator cap

Q78 CORRECT Which engine is used the Petrol oil lubrication system?

A. Four stroke engine

B. Two stroke engine

C. Steam engine

D. Battery car

Q79 CORRECT What is the purpose of the dip stick used in the engine?

A. To check oil pressure

B. To check oil temperature

C. To check oil density

D. To check oil level □

Q80 CORRECT Which lubrication system is used separate oil tank?

A. Wet sump lubrication

B. Splash lubrication

C. Petrol - oil lubrication

D. Dry sump lubrication □

Q81 CORRECT Which type of lubrication system is used in two stroke engine?

A. Dry sump lubrication

B. Wet sump lubrication

C. Petrol-oil lubrication □

D. Splash lubrication

Q82 CORRECT What is the main purpose of the lubricant?

A. Minimise the friction □

B. Increase the friction

C. Increase the wearness

D. Increase the noise

Q83 CORRECT Which system the gear type oil pump is used?

A. Lubrication system

B. Cooling system

C. Fuel system

D. Air conditioning system

Q84 CORRECT What is the cause of water leakage in water pump?

A. Worn out bearing

B. Worn out shaft

C. Worn out seal

D. Worn out impeller

Q85 CORRECT When it is required to change the water pump bearing?

A. Water leakage

B. Bearing noisy

C. Low water pressure

D. Fan belt loose

Q86 INCORRECT What is the effect if the radiator cores are clogged?

A. Free coolant flow

B. Slow coolant flow

C. Stop coolant flow

D. Increase coolant flow

Q87 INCORRECT What is the reason pump does not suck the oil?

A. Less radial clearance

B. More backlash

C. Relief valve struck

D. Filter clogged

Q88 INCORRECT What is the material used to produce crank shaft?

A. Chromium vanadium nickel steel

B. High speed steel

C. Cast iron

D. Wrought iron

Q89 CORRECT What is the material of piston pins?

A. Nickel chromium steel

B. Cast iron

C. HSS

D. Bronze

Q90 CORRECT What is the name the portion below the piston boss?

A. Land of the piston

B. Ring section of the piston

C. Crown of the piston

D. Skirt of the piston

Q91 CORRECT What type of bearing fitted in the connecting rod big end?

A. Needle bearing

B. Ball bearing

C. Taper roller bearing

D. Shell bearing □

Q92 CORRECT Which part connect the piston with connecting rod?

A. Piston pin □

B. Spilt pin

C. Crank pin

D. Cotter pin

Q93 CORRECT Which part is connect the piston with crank pin?

A. Push rod

B. Connecting rod □

C. Cam Shaft

D. Crank Shaft

Q94 CORRECT Which tool used to remove the crank shaft pully?

A. Double and spanner

B. Ring spanner

C. Pipe wrench

D. Puller □

Q95 CORRECT Which tool is used to measure the diameter of the crank shaft main journal?

A. Inside micrometer

B. Outside micrometer □

C. Three point internal micrometer

D. Master ring gauge

Q96 CORRECT What is the material for cam shaft?

A. Forged alloy steel □

B. Copper alloy

C. Aluminium alloy

D. Zinc alloy

Q97 CORRECT Which tool is required to remove the valves?

A. Torque wrench

B. Valve spring lifter □

C. Box spanner

D. Scraper

Q98 CORRECT Which instrument is used to check the vacuum of the cylinder?

A. Compression gauge

B. Dial gauge

C. Vacuum gauge □

D. Wire gauge

Q99 CORRECT Which measuring instrument used to check the fly wheel face out?

A. Dial indicator

B. Compression gauge

C. Outside micrometer

D. Feeler gauge

Q100 CORRECT Which is the most preferred use of taper roller bearings?

A. Gear boxes

B. Fly wheel and water pump

C. Differential and wheel hub

D. Connecting rods

Q101 CORRECT What is the property of a bearing helps to with stand metal to metal contact?

A. Surface action

B. Thermal conductivity

C. Fatique strength

D. Embeddability

Q102 CORRECT Which is the most preferred use of roller bearings?

A. Gear boxes

B. Fly wheel

C. Differential

D. Connecting rods

Q103 CORRECT Which is connected with pison through piston pin?

A. Gudgeon pin

B. Connecting rod □

C. Cam shaft

D. Rocker arm

Q104 INCORRECT Which is the key element in converting reciprocating motion in to rotary motion?

A. Connecting rod □

B. Gudgeon pin

C. King pin □

D. Cam shaft

Q105 CORRECT Which is transferring energy for the piston to crankshaft?

A. Gudgeon pin

B. King pin

C. Connecting rod □

D. Cam shaft

Q106 INCORRECT Which is the load taken by the roller bearing?

A. Radial load □

B. Axial load

C. Thrust load

D. Radial and axial load □

Q107 INCORRECT What is the load taken by taper roller bearing?

A. Radial load

B. Axial and radial load □

C. Thrust load

D. Radial and axial load □

Q108 INCORRECT Which is the bearing used in differential and wheel of a heavy vehicles?

A. Ball bearing

B. Roller bearing □

C. Needle bearing

D. Taper roller bearing □

Q109 CORRECT Which is the bearing used in water pump?

A. Ball bearing □

B. Roller bearing

C. Needle bearing

D. Taper roller bearing

Q110 CORRECT Which is the bearing used in gear boxes?

A. Ball bearing □

B. Roller bearing

C. Needle bearing

D. Taper roller bearing

Q111 INCORRECT Which is the most preferred use of bush bearings?

A. Connecting rods

B. Fly wheel

C. Crank shaft

D. Oil pumps

Q112 CORRECT Where is the compression ring is fitted in the piston?

A. Compression ring above the oil ring in the piston

B. Compression ring bottom of the piston skirt

C. Compression ring between oil ring and piston pin

D. Compression ring between piston pin and bottom of skirt

Q113 CORRECT Which tool is used to remove the piston ring?

A. Drift punch

B. Ring expander

C. Circlip plier

D. 'C' clamp

Q114 CORRECT What is the purpose of the timing chain?

A. To connect water pump pulley

B. To connect alternator

C. To connect crank or cam shaft gear

D. To connect A/C compressor

Q115 CORRECT What is the purpose of the fly wheel timing mark?

A. To coincide the gears

B. To set the engine timing ✓

C. To set the F.I.P timing

D. To set the valve clearance

Q116 CORRECT Where the fly wheel is fitted in the engine?

A. Cam shaft

B. Crank shaft ✓

C. Rocker arm shaft

D. Primary shaft

Q117 CORRECT What is the speed ratio cam shaft to crank shaft?

A. Half ✓

B. Equal

C. Double

D. Triple

Q118 INCORRECT When it is required to coincide the mark with timing gears?

A. During assembling water pump

B. During assembling oil pump

C. During assembling cam shaft ✓

D. During assembling radiator ✗

Q119 CORRECT Which instrument is used to check the tappet clearance?

A. Telescopic gauge

B. Screw pitch gauge

C. Feeler gauge

D. Wire gauge

Q120 CORRECT Which gauge used to measure the cylinder bore wearness?

A. Compression gauge

B. Vacuum gauge

C. Dial gauge

D. Depth gauge

Q121 INCORRECT What is the property allows a bearing to with stand impact load for a reasonable time?

A. Fatigue strength

B. Tensile strength

C. Toughness

D. Hardness

Q122 CORRECT What is the property of bearing helps to absorb dirt and metal particles?

A. Conformability

B. Embedability

C. Surface action

D. Thermal conductivity

Q123 CORRECT What is the cause of excessive loading?

A. Fatigue failure □

B. Bearing spread

C. Bearing crush

D. Bearing struck

Q124 CORRECT What is the cause for uneven wear of bearings?

A. Bend twist □

B. Excessive lubrication

C. No lubrication

D. Over heat

Q125 CORRECT What is ovality of a crank shaft?

A. Difference in dia measured from top to bottom of a crank shaft outer dia

B. Difference in dia measured thrust to non thrust across dia □

C. Difference in dia measured only at top

D. Difference in dia measured only at bottom

Q126 CORRECT What is the type of hardening done on crank shaft?

A. Induction hardening □

B. Case hardening

C. Surface hardening

D. Curve hardening

Q127 CORRECT What is ovality of a bore?

A. Difference in dia measured top to bottom

B. Difference in dia thrust to non thrust side of cylinder □

C. Difference in dia measured only at top

D. Difference in dia measured only at bottom

Q128 CORRECT What is the effect of tapper and ovality of a bore?

A. Compression loss □

B. Miss firing

C. Difficult starting

D. False valve timing

Q129 CORRECT What is the material of cylinder block?

A. Cast iron □

B. Bronze

C. Brass

D. Zinc alloy

Q130 CORRECT What is the reason for corrosion of bearing?

A. Less clearance

B. Water mixed with lubricant □

C. Over loaded

D. Over heated

Q131 CORRECT What is the type of mechanical hazards in workshop?

A. Sickness

B. Current leakage

C. Un guarded machinery □

D. Wrong layout of machinery

Q132 CORRECT Which type of workshop equipment used to deliver the air pressure to hydraulic hoist?

A. Jib crane

B. Compressor □

C. Vacuum pump

D. Hydraulic pump

Q133 CORRECT Which part of the human body need to protect in high noise level at work place?

A. Ear □

B. Eye

C. Nose

D. Head

Q134 CORRECT Which is the cause for lifting equipment failure?

A. Oil change

B. Under load

C. Oil seal leak □

D. Check oil level

Q135 CORRECT Which equipment is to support under lifting vehicle before working underneath the vehicle for safe work?

A. Stand □

B. Slings chain

C. Lifting crane

D. Hydraulic jack

Q136 CORRECT Which area is restricted to smoking?

A. Water filling area

B. Fuel refilling area □

C. Gram market area

D. Corporation limit area

Q137 INCORRECT Which type of fuel contains more carbon monoxide?

A. Solid fuel □

B. Burnt fuel

C. Liquid fuel

D. Unburnt fuel □

Q138 CORRECT Which type of material toxic may cause for lung cancer?

A. Fiber

B. Wood

C. Graphite

D. Asbestos □

Q139 CORRECT Which device is best for control toxic waste?

A. Wire brush

B. Cotton waste

C. Air compressor

D. Vacuum cleaner

Q140 CORRECT Which comes under first aid?

A. Treating a victim for a shock

B. Completing a primary source

C. Assessing a victim's vital signs

D. Immediate care and support given to injured person

Q141 CORRECT Which part of body, if bleeding profusely is considered serious and need professional attention?

A. Leg

B. Knee

C. Wrist

D. Buttock

Q142 CORRECT What is your immediate action on completion of first aid?

A. Call taxi

B. Call your friend

C. Call fire service

D. Call emergency service

Q143 CORRECT What is the type of fire with wood, cloth, and paper?

A. Class - A

B. Class - B

C. Class - C

D. Class - D

Q144 CORRECT What is the class of gas burning fire?

A. Class - A

B. Class - B

C. Class - C

D. Class - D

Q145 CORRECT Which type of fire extinguisher unsuitable for electric fire?

A. CO₂

B. CTC

C. Foam

D. Dry powder

Q146 CORRECT Which type of fire extinguisher suitable for class 'A' fire?

A. Halon

B. Dry powder

C. Foam or water

D. Carbon-di-oxide

Q147 CORRECT Which fire extinguisher sutiable for class ?C? fire?

A. Foam filled extinguisher

B. Water filled extinguisher

C. Dry powder fire extinguisher □

D. Carbon-di-oxide fire extinguisher

Q148 INCORRECT Which type of energy conservation opportunity involves stopping of water leakage points?

A. Minor energy conservation opportunities □

B. Major energy conservation opportunities □

C. Medium energy conservation opportunities

D. Extra major energy conservation

Q149 CORRECT What is the procedure to be carried out if an electric shock victim unable to release his grip from the conductor?

A. Make sure the power is turned off □

B. Cover all burns with a dry loose dressing

C. Place the victim on one side with head down

D. Ask a by stander to help you to move the

Q150 CORRECT Which is the major energy conservation opportunity?

A. Stopping of leakage

B. Replacement machineries □

C. Replacement of house hold appliance

D. Laps in housekeeping