MOTOR MECHANIC/STORE ASSISTANT, GROUND WATER

EXAM DATE:17-12-2015

| 1.Splines and keys in mechanical assemblies: |
|--|
| A.Fasten studs into place |
| B.Lock nuts to bolts |
| C.Locks gears to shafts* |
| D.Used as set screws |
| Ans:C |
| 2.Castle nuts are normally used with: |
| A.Snap rings |
| B.Cotter pins* |
| C.Bolt heads |
| D.Lock washers |
| Ans:B |
| 3.Gaskets are used to: |
| A.Prevent any leakage of fluid* |
| B.Seals out pressure |
| C.Takes up space as shims |
| D.Any of the above |
| Ans:A |
| 4.Taps are used to: |
| A.Cut internal threads* |
| B.Cut external threads |
| C.Enlarge a hole |

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|---|
| D.Both(A) and (B) |
| Ans:A |
| 5.A'Clutch spring compressor' compressesof the clutch while |
| dismantling. |
| A.Cushioning springs |
| B.Thrust springs* |
| C.Anti rattling springs |
| D.Torsional springs |
| Ans:B |
| 6.As piston moves towards TDC in compression stroke: |
| A.The mixture gets hotter |
| B.Even distribution of mixture happens |
| C.Pressure rise occurs |
| D.All of the above* |
| Ans:D |
| 7. The stroke in which both the valves are closed is: |
| A.Suction |
| B.Compression |
| C.Expansion |
| D.Both B and C* |
| Ans:D |
| 8.To further smoothen out the flow of power engines have: |
| A.Counter weights |
| B.Fly wheels* |
| |

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|---|
| C.Crank pins |
| D.Crank webs |
| Ans:B |
| 9.To convert the reciprocating motion to rotary motion the engines have: |
| A.Cam shaft and crank shaft |
| B.Pistons and connecting rods* |
| C.Connecting rods and Crank shaft |
| D.Cam shaft and rocker arms |
| Ans:B |
| 10. How many times in minute the inlet valve of a four stroke engine working at 1000 RPM open and close? |
| A.500* |
| B.1000 |
| C.1500 |
| D.2000 |
| Ans:A |
| 11. Valve rotators are used for: |
| A.Rotating the valves on its own axis |
| B.Reducing the warping of valves |
| C.Even wear distribution of valves |
| D.All of the above* |
| Ans:D |
| 12.VTEC stands for: |

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| A.Variable valve Timing Electronic Cam shaft |
| B.Variable valve Timing and lift Electronic control* |
| C.Valve Timing Electrical Cam Shaft |
| D.None of the above |
| Ans:B |
| 13. Most commonly used valve actuating mechanism in modern cars is |
| A.T-head |
| B.I-head* |
| C.L-head |
| D.F-head |
| Ans:B |
| 14. The carbon deposits on the cylinder head is removed with: |
| A.Scrapper brush* |
| B.Water Jet |
| C.Soap solution |
| D.Kerosene |
| Ans:A |
| 15.In a single cylinder two stroke engine running at 2000 RPM the number of power strokes per minute is: |
| A.1000 |
| B.4000 |
| C.2000* |
| D.None |
| Ans:C |

16.In an Otto cycle engine, the operation sequence is:

| A.Compression,exhaust,power |
|--|
| B.Power,induction,exhaust |
| C.Compression,power,exhaust* |
| D.Compression, power induction |
| Ans:C |
| 17. The factor for ignition in diesel engines is: |
| A.Pressure of injection |
| B.High compression ratio |
| C.Abundance of air |
| D.All of the above* |
| Ans:D |
| 18.In a two stroke engine at the time of spark occurs. |
| A.Transfer port has just opened |
| B.Fresh gas is being compressed |
| C.Fresh charge is being transferred to inlet* |
| D.Any of the above |
| Ans:C |
| 19. Which of the following is a rich air fuel ratio? |
| A.9:1* |
| B.11:1 |
| C.13:1 |
| D.15:1 |
| Ans:A |

20. The percentage of combustion heat, available at crank shaft for useful work output is:

| Work output is: |
|--|
| A.35% |
| B.55% |
| C.60% |
| D.20%* |
| Ans:D |
| 21.In an engine having swirl combustion chamber |
| A.More air fuel mixture enters |
| B.Improved scavenging take place |
| C.Improved combustion take place* |
| D.Burned gas has no back pressure |
| Ans:C |
| 22. The main purpose of piston pin offset is to: |
| A.Perfectly balance the piston during power stroke |
| B.Prevent piston slip |
| C.Centralise the piston |
| D.Reduce piston slap* |
| Ans:D |
| 23. Some automobile engines have glow plugs to: |
| A.Warn the driver about engine overheat |
| B.Preheat the fuel for easier starting |
| C.Preheat the combustion chamber* |
| D.Warm the passenger area |

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Ans:C

24. The upper and lower ends of the combustion chamber is formed by:

A.Piston and cylinder block

B.Cylinder walls and piston

C.Piston rings and cylinder head

D.Cylinder head and piston*

AnsD

25. Piston rings are provided to:

A.Completely seal the combustion gas

B.Hold the piston concentric to cylinder walls

C.Hold a fine oil film on cylinder walls

D.Both a and c*

Ans:D

26. Thermostat valve helps the engine to:

A.Keep the oil temperature at operating values

B. Keep the coolant temperature at operating values

C.Prevents the engine from overheating

D.Both b and C*

Ans:D

27.In a four stroke engine the cam shaft turns at:

A.Same speed as the crank shaft

B. Double the speed as the crank shaft

C.Half the speed of the crank shaft*

D.One fourth the speed of the crank shaft

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| Ans:C |
| 28. Mechanic X says that all OHC engines have rocker arms. Mechanic Y |
| says that some bucket tappets and no rocker arms. Who is correct? |

| A.Mechanic X |
|--|
| B.Mechanic Y* |
| C.Both X and Y |
| D.Neither X nor Y |
| Ans:B |
| 29.Valve overlap occurs at: |
| A.The end of exhaust stroke* |
| B.The beginning of power stroke |
| C.The beginning of compression stroke |
| D.The end of power stroke |
| Ans:A |
| 30. The rate at which work is done, is measured in terms of: |
| A.Energy |
| B.Torque |
| C.Inertia C.Inertia |
| D.Power* |
| Ans:D |
| 31. The volume of air contained above the piston when the piston is at TDC is: |
| A.Clearance volume* |
| B.CC |

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| C.Swept volume |
| D.Stroke volume |
| Ans:A |
| 32. The condition of exploding the end charge before the completion of normal combustion is: |
| A.Pre-ignition |
| B.Rumble |
| C.Detonation* |
| D.Stalling |
| Ans:C |
| 33.Low Cetane fuel implies that: |
| A.It takes longer time to ignite* |
| B.It takes lesser time to ignite |
| C.Ignites as soon as it enters the cylinder |
| D.Both B and C |
| Ans:A |
| 34.Mechanical fuel pumps are operated by: |
| A.Cam in the cam shaft |
| B.Eccentric in the crank shaft |
| C.Skew gear in the cam shaft |
| D.Eccentric in the cam shaft* |
| Ans:D |
| 35.Taper needle jet is found in: A.Selex carburettor |

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| B.SU carburettor* |
| C.Zenith carburettor |
| D.Carter carburetor |
| Ans:B |
| 36.Generally turbo charger is operated by: |
| A.A belt driven by the engine crank shaft |
| B.A gear attached to the cam shaft |
| C.A chain and sprocket drive |
| D.Exhaust gas* |
| Ans:D |
| 37. Qualitative governing is best suited for: |
| A.High speed engines |
| B.Slow speed engines |
| C.Diesel engines* |
| D.Petrol engines |
| Ans:C |
| 38.Growler is associated with: |
| A.Battery |
| B.Armature* |
| C.CB point |
| D.FIP |
| Ans:B |
| 39. High compression ratio result in: |
| A.Increased NOx emission |

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| B.More soot in exhaust |
| C.Reduced HC and CO emission |
| D.All of the above* |
| Ans:D |
| 40.PCV valve is located between: |
| A.Crank case and inlet manifold* |
| B.Crank case and carburetor |
| C.Air cleaner and crank case |
| D.Air cleaner and carburetor |
| Ans:A |
| 41.CO in the exhaust of a vehicle should not be more than: |
| A.0.5%* |
| B.1% |
| C.1.5% |
| D.2% |
| Ans:A |
| 42. The temperature below which the oil will not flow is: |
| A.Fire point |
| B.Flash point |
| C.Pour point* |
| D.Flow point |
| Ans:C |
| 43. Transfer case is a type offin four wheel drive vehicles |
| A.Crank case |
| |

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| B.Gear box* | |
| C.Transmission shaft | |
| D.Differential | |
| Ans:B | |
| 44.Gear Clash while shifting is due to: | |
| A.Incorrect clutch adjustment | |
| B.Damaged synchronizer unit* | |
| C.Low level gear oil | |
| D.Any of the above | |
| Ans:B | |
| 45.In case of front engine rear wheel drive cars the drive shaft has: | |
| A.Minimum one universal joint | |
| B.Maximum two universal joint C.Minimum two universal joint* | |
| D.Two slip joints | |
| Ans:C | |
| 46.A slip joint permits changes in: | |
| A.Wheel base | |
| B.Wheel track | |
| C.Wheel alignment | |
| D.None* | |
| Ans:D | |
| 47.Alternator produces electricity in its: | |
| A.Stator windings* | |
| | |

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|---|
| C.Commutator |
| D.Regulator |
| Ans:A |
| 48. While trying to start an engine it cranks slowly but doesn't start. It may be due to: |
| A.Low temperature |
| B.Run down battery* |
| C.Damaged fuel system |
| D.Any of the above |
| Ans:B |
| 49. Approximate starter pinion-ring gear, gear ratio is: |
| A.5:1 |
| B.15:1* |
| C.25:1 |
| D.30:1 |
| Ans:B |
| 50. When it is needed to top up the lead acid battery frequently.it is due to: |
| A.Sulfation |
| B.Overloading |
| C.Overcharging* |
| D.Long standing period |
| Ans:C |

51. Hydrometer is device used to check:

| A.Voltage of a cell |
|--|
| B.Specific gravity of acid* |
| C.Voltage of a battery |
| D.Temperature of electrolyte |
| Ans:B |
| 52.In hydraulic system Brake binding is due to: |
| A.Incorrect free pedal play adjustment |
| B.Blocked by pass port |
| C.Blocked air went in master cylinder |
| D.Any of the above* |
| Ans:D |
| 53. Double de-clutching is associated with: |
| A.Constant mesh gear box* |
| B.Synchromesh gear box |
| C.Hydraulic clutch |
| D.Magnetic clutch |
| Ans:A |
| 54. Gear clash during shifting may be caused by any of the following except: |
| A.Defective synchronizer |
| B.Incorrect pedal play |
| C.Too low idle speed* |
| D.Unadjusted shift mechanism |

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| 55. How many synchronizer units are there in a three speed transmission? |
| transmission: |
| A.One |
| B.Two* |
| C.Three |
| D.Four |
| Ans:B |
| 56. How many gears are there in the main shaft of a four speed transmission? |
| A.Six |
| B.Five |
| C.Four |
| D.Three* |
| Ans:D |
| 57.Pick the odd one out: |
| A.Half shaft* |
| B.Clutch shaft C.Main shaft |
| D.Lay shaft |
| Ans:A |

58.A humming noise from the under body of a rear wheel drive vehicle is due to:

A.Bend propeller shaft

B.Incorrect differential meshing*

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| C.Faulty gear box |
| D.Binding brake |
| Ans:B |
| 59. The type of font axle in which the king pin is usually fixed in the stub axle forging and ends turn in the forked end of the axle beam is: |
| A.Lemoine |
| B.Inverted lemoine |
| C.Reversed Elliot |
| D.Elliot* |
| Ans:D |
| 60. The tilt of the front wheels from vertical is called: |
| A.Caster |
| B.Camber* |
| C.King Pin inclination |
| D.Toe in |
| Ans:B |
| 61.To reduce the vibration and for stability of a vehicle: |
| A.Higher unsprung weight is desired |
| B.Suspension spring of high frequency can be used |
| C.Lower unsprung weight is desired* |
| D.Lower body weight is desired |
| Ans:C |
| 62.Stroke length is equal to: |
| A.Double the crank throw* |
| |

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| B.Same as the crank throw |
| C.Half of crank throw |
| D.Three times the crank throw |
| Ans:A |
| 63.Which is not true with respect to Disc Brakes? |
| A.Uniform wear |
| B.Easy to service |
| C.High initial cost |
| D.Concealed frictional surface* |
| Ans:D |
| 64. Generally five wheel tyre rotation starts from which side wheel? |
| A.Front right |
| B.Front left |
| C.Rear left |
| D.Rear right* |
| Ans:D |
| 65. Which of the following axle shaft has to take full load? |
| A.Three quarter floating |
| B.Full floating |
| C.Semi floating* |
| D.Both A and B |
| Ans:C |
| 66.Aspect ratio of tyre is its: |
| A.Section width/Section height |

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| B.Section height/Section width * |
| C.Total width/Total height |
| D.Rim diameter/tyre diameter |
| Ans:B |
| 67.In a tyre it is designated as 'P200/775 R 16',What is the digit 200? |
| A.Section width* |
| B.Section height |
| C.Rim diameter |
| D.Aspect ratio |
| Ans:A |
| 68. What is the symptom of atmospheric air enter the water cooling system of a multi cylinder diesel engine? |
| A.Overheating* |
| B.Coolant become greenish |
| C.Coolant become reddish |
| D.Coolant become viscous |
| Ans:A |
| 69. What is the CC value of new TATA Nano Gen X Easy shift car? |
| A.424 |
| B.524 |
| C.624* |
| D.724 |
| Ans:C |
| |

70. The type of body movement of a vehicle in which the vehicle turn on its own longitudinal axis is:

IF YOU LIKE PLEASE SHARE TO YOUR FRIENDS AND SEND FACEBOOK FRIENDS INVITATION LIKE PAGE WWW.FACEBOOK.COM/WISHYOUONLINE PLEASE MAY HELP THEM. C. Higher or lower propeller shaft can be used D.All of the above* Ans:D 74. The pollutant that forms at higher combustion temperatures is: A.CO B.HC C.NOx* D.H2O Ans:C 75. Variable steering gear ratio can be achieved in the case of: A.Worm and sector B.Worm and nut C.Rack and pinion D.Worm and Roller* Ans:D 76. Before a mechanic get under a vehicle he should make sure that: A.The tyres are inflated B.He use a creeper C.The jack handle is down D.The vehicle is on safety stands* Ans:D 77.In automobile servicing concept what is meant by 'Tear down'? A.Adjusting B.Disassembling*

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| C.Reassembling |
| D.Machining |
| Ans:B |
| 78. Which is most suitable to check spark plug gap? |
| A.Feeler gauges* |
| B.Micrometer |
| C.Wire gauges |
| D.Vernier caliper |
| Ans:A |
| 79. The reading of a metric micrometer is in: |
| A.Centimetre* |
| B.Thousands of an inch |
| C.Thousands of millimeter |
| D.Metre |
| Ans:A |
| 80.To measure the tapemess of a cylinder ais used. |
| A.Dial indicator* |
| B.Vernier caliper |
| C.Depth gauge |
| D.Micrometer |
| Ans:A |
| 81.Swarnajayanti, Gram Swarozgar Yojana was launched in: |
| A.1990 |
| B.1999* |

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| C.2003 |
| D.2008 |
| Ans:B |
| 82. Ranajith Singh Gold cup is associated with: |
| A.Hockey* |
| B.Football |
| C.Cricket |
| D.Tennis |
| Ans:A |
| 83. Who won the Nobel prize for literature in 2014? |
| A.Eric Betzig |
| B.Raul Mamedeo |
| C.Ellud Kipchage |
| D.Patrick Modiano* |
| Ans:D |
| 84. The headquarters of Kerala Lalita Kala Academy is at: |
| A.Thrissur * |
| B.Kochi |
| C.Thiruvanathapuram |
| D.Kozhikode |
| Ans:A |
| 85. The palace at Mattanchery was built by: |
| A.British |
| B.Dutch |
| |

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| C.Zamorins C.Zamorins |
| D.Portuguese* |
| Ans:D |
| 86. Whose birthday is celebrated as National Youth Day? |
| A.Bhagat Singh |
| B.B.R.Ambedkar |
| C.Swami Vivekananda* |
| D.Rajeev Gandhi |
| Ans:C |
| 87.McMohan line is the demarcation line between India and: |
| A.China* |
| B.Pakistan |
| C.Nepal |
| D.Burma |
| Ans:A |
| 88.The famous Ajanta-Ellora is situated in: |
| A.Madhya Pradesh |
| B.Rajasthan |
| C.Maharashtra* |
| D.Delhi |
| Ans:C |
| 89. Name the newspaper founder by Vakkom Abdul Khadar Maulavi: |
| A.Swadeshabhimani* |
| B.Chandrika |
| |

IF YOU LIKE PLEASE SHARE TO YOUR FRIENDS AND SEND FACEBOOK FRIENDS INVITATION LIKE PAGE WWW.FACEBOOK.COM/WISHYOUONLINE PLEASE MAY HELP THEM. C.Malayala Manorama D.Deepika Ans:A 90.'Odayilninnu'is a novel written by: A.P.C.Kuttikrishnan B.S.K.Pottekkad C.O.V.Vijayan D.Kesavadev* Ans:D 91. Where did the Jallianwala Bagh Massacre occure? A.Jalandhar B.Delhi C.Amritsar* D.Ludhiana Ans:C 92. Who was the first secretary of SNDP? A.Sree Narayana Guru B.Kumaranasan* C.Dr.Palpu D.C.Govindan Ans:B 93. Who received the Dada Sahib Phalke award in 2013? A.Syam Benegal B.B.R.Chopra

IF YOU LIKE PLEASE SHARE TO YOUR FRIENDS AND SEND FACEBOOK FRIENDS INVITATION LIKE PAGE WWW.FACEBOOK.COM/WISHYOUONLINE PLEASE MAY HELP THEM. C.Gulzar* D.Gireesh Karnad Ans:C 94.'Pracheena Malayalam'was written by: A.Ezhutachan B.Vaikunda Swamikal C.Herman Gundert D.Chattampi Swamikal* Ans:D 95. Who appoints the chairman of UPSC? A.The Prime Minister of India B.The President of India* C.The Chief Justice of India D.The Speaker of Lok Sabha Ans:B 96. Who was the first recipient of Ezhutachan Puraskaram? A.Takazhi Sivasankara Pillai B.O.N.V.Kurup C.M.T.Vasudevan Nair D.Sooranad Kunjan Pillai* Ans:D 97. The last Asian games was held in: A.South Korea* **B.China**

WWW.FACEBOOK.COM/WISHYOUONLINE PLEASE MAY HELP THEM. C.North Korea D.Japan Ans:A 98. Name the organization founded by Pandit Karuppan: A.Hindu Dharma Paripalana Sabha B.Kalyana Dayani Sabha* C.Yogakshema Sabha D.Dharma Paripalana Sabha Ans:B 99. The first woman President of Indian National Congress: A.Sarojini Naidu **B.Annie Besant*** C.Vijayalakshmi Pandit D.Kasturba Gandhi Ans:B 100. Who was the Prime Minister of India, When Panchaseel was adopted? A.Lal Bahadur Shastri B.Morarji Desai C.Jawaharlal Nehru* D.Indira Gandhi Ans:C

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