TRADESMAN-DIESEL MECHANIC
TECHNICAL EDUCATION DEPARTMENT
EXAM DATE:17-01-2017
1.Super charging in a diesel engine is also called:
A.Scavenging
B.Boosting
C.Cleaning
D.Silencing
Ans:B
2.Thermostat valve strate to open above:
A.20%
B.50%
C.80%
D.90%
Ans:C
3.The oil pan in an engine is made of:
A.Steel or aluminium
B.Steel or cast iron
C.Cast iron or brass
D.Cast iron or zinc
Ans:A

4.The rate of doing work is called:
A.Energy
B.Power
C.Torque
D.Force
Ans:B
5. Which one of following is an insulator:
A.Aluminium
B.Copper
C.Iron
D.Mica
Ans:D
6.One Newton is equal to:
A.10 ⁹ dyne
B.10⁵dyne
C.10 ³ dyne
D.10 ⁷ dyne
Ans:B
7. Which part of the piston is subjected two high pressure and
temperature?
A.Skirt

B.Ring section
C.Hand
D.Crown
Ans:D
8.Venturi unit and diaphragm unit are the to main parts of the following Governors: A.Pneumatic
B.Hydroic
C.Mechanical
D.Servo
Ans:A
9.The stroke of an engine is:
A.Length of the connecting rod
B.Distance between T.D.C and B.D.C.
C.Volume of the cylinder
D.Inside diameter of the cylinder
Ans:B
10. The compression ratio in a diesel engine can be as high as:
A.18:1
B.12:1
C.14:1
D.25:1

Ans:D

11.A 12 V lead acid battery consist of:
A.Three cells in series
B.Six cells in series
C.Three cells in parallel
D.Six cells in parallel
Ans:B
12. The diesel engine usually emits excessive smoke during:
A.Starting
B.Idling
C.Accleration
D.Decelerating
Ans:C
13.The thermostat valve starts to open at about:
A.20°C
B.50°C
C.90°C
D.80°C
Ans:D
14.The number of ignition coils a distributorless ignition system for a six cylinder engine is

A.2
B.3
C.6
D.12
Ans:C
15.Oil bath air cleaner is serviced:
A.After every 2000 km
B.After every 3000 km
C.After every 4000 km
D.After every 5000 km
Ans:D
16.Radiator core should be cleaned by:
A.Out side the fan side
B.Reverse flushing
C.Top to bottom of core
D.Top hose to bottom house
Ans:B
17. The minimum graduation of an engineer's steel rule is:
A.0.25 mm
B.0.50 mm
C.0.75 mm

D.1.00 mm
Ans:B
18. The Instrument used to measure cylinder bore diameter is:
A.Out side micrometer
B.Vernier caliper
C.Telescopic gauge
D.Bore dial gauge
Ans:D
19.C.B.point are generally made of:
A.Tungsten
B.Steel
C.Copper
D.Plastic
Ans:A
20.Aluminium cylinder block requires:
A.Aluminium liners
B.Brass liners
C.Cost iron liners
D.No liners
Ans:B
21.In a vernier micrometer, vernier scale is gradated on:

A.Frame
B.Spindle
C.Barrel
D.Thimble
Ans:C
22.It has to withstand high pressure and temperature piston is made out of"
A.Copper
B.Cast iron
C.Steel
D.Aluminium alloy
Ans:D
23.The crankshaft transmit torque directly to:
A.Flywheel
B.Propeller shaft
C.Rod wheel
D.Differential
Ans:A
24.Exhaust valve fall angle is generally:
$A.30^{\circ}$
B.45°

C.60°
D.75°
Ans:B
25. Which one of the following is not unit of pressure?
A.Peal
B.Torr
C.Newton
D.Bar
Ans:C
26.The unit capacitance is:
A.Ohm
B.Siemems
C.Farrad
D.Mho
Ans:B
27.One joule is equal to:
A.107 ergs
B.103 ergs
C.109 ergs
D.105 ergs
Ans:A

28.Bench vice is normally made of:

A.Cast iron

B.Cast steel

C.Mild steel

D.High speed steel

Ans:A

29. Deposit of carbon in the exhaust system:

A.Will reduce back pressure

B.Will have no effect on back pressure

C.Will increase back pressure

D.Will result in pressure

Ans:C

30. The boiling point of the coolant is increased in the cooling system which of the following makes it possible to increase the boiling point:

A.Pressure radiator cap

B.Vacuum valve

C.Water jackets

D.Radiator core

Ans:A

31.A governor, which provided perfect speed regulation with

zero	speed	drop	is cal	lled:
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zero speed drop is called.
A.Isobar governor
B.Isotherm governor
C.Isochronous governor
D.Isocline governor
Ans:D
32. Much of the heat in the exhaust gases may be recovered by the use of:
A.Heat exchanged
B.Muffler
C.Manifold
D.Tail pipe
Ans:A
33.A noise produced in the cylinder of a diesel engine during combustion usually when the fuel oil has a low ignition quality is called:
A.Fuel burst
B.Fuel explosion
C.Fuel knock
D.Fuel thrust
Ans:C

34.In starting of diesel engine by electric starting, what is used

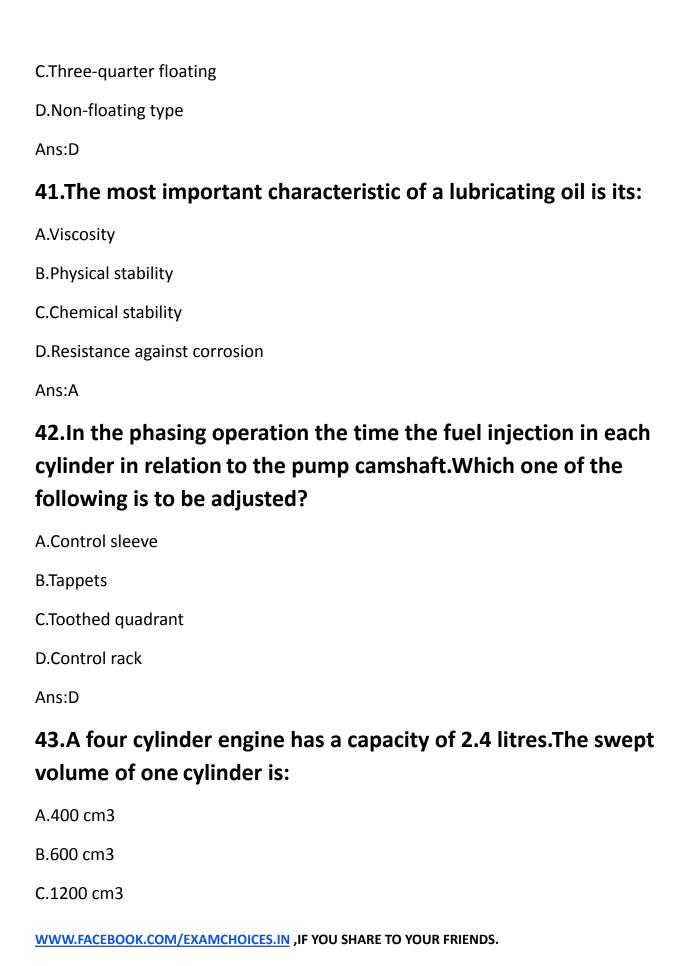
to supply power to the power motor? A.Dynamo **B.Generator** C.Rectifier **D.Battery** Ans:D 35. What is the pitch of a fine hacksaw blade? A.1.8 mm B.1.0 mm C.0.8 mm D.1.4 mm Ans:C **36.The resistance in an open circuit is:** A.Zero **B.Very low** C.Very high D.Infinite

37. The fuel injection timing in a distributor type pump is controlled by:

A.Changing plunger stroke

Ans:D

B.Changing speed of rotor C.Rotating the cam ring D.Changing the number of cams on the ring Ans:C 38. The special feature of pintle type nozzle is that it: A. Has a single hole B. Has an extended stem to form a pin C.It is suitable for cold weather D.Is designed for easy starting Ans:B 39. Top portion of liner does not come in contact with piston. Ring forms ridge in the cylinder bore. The tool used to remove ridge. A.Milling cutter B.End mill cutter C.Ridge cutter D.Seat cutter Ans:D 40. Identify the type of floating of gudgeon pin proved with circlip: A.Semifloating **B.Full-floating**



D.2400 cm3 Ans:B 44. What is likely to happen if the thermostat valve remains closed? A.Over heating of engine B.Rough idling C.Slow warming up of engine D.Difficulty in starting of engine Ans:A 45.A Rough file is used: A.On non irregular jobs B.To reduce the metal rapidly C.On wood D.If smooth file is not suitable Ans:B 46.In order to ensure effective cooling of each cylinder of the engine is surrounded by: A.Radiator B.Water tube C.Water ring D.Water jacket Ans:D

47. The main purpose of lead acid battery is to store electrical in the form of:

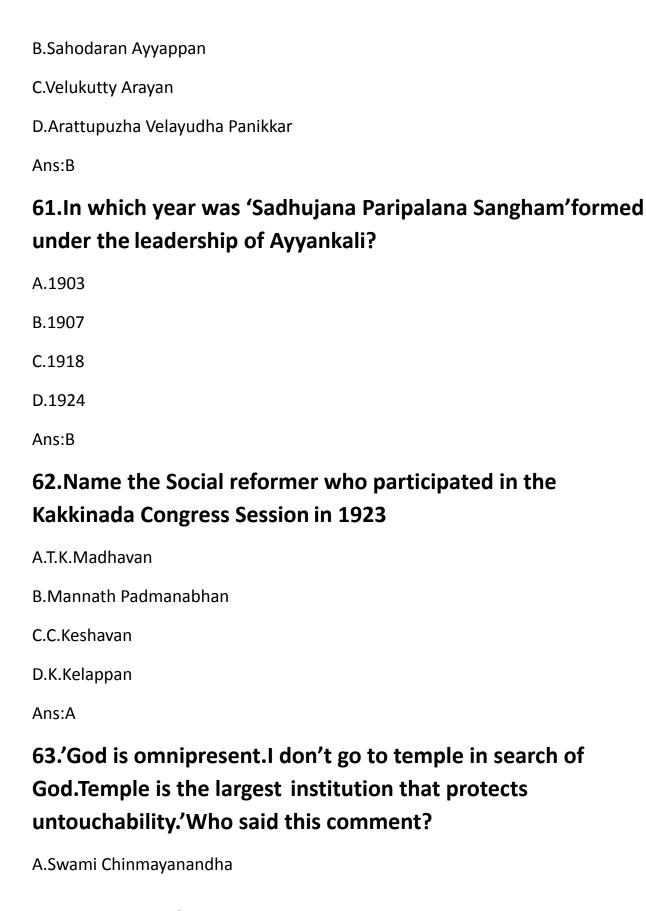
A.Kinetic energy
B.Potential energy
C.Chemical energy
D.Mechanical energy
Ans:C
48.A grinding wheel is marked:51A46 L5V-23.Here what does 5 denote?
A.Kind of bond
B.Structure
C.Kind of abrasive
D.Grain size
Ans:B
49.India's position in terms of its size is:
A.3
B.4
C.6
D.7
Ans:D
50.Who designed our National Flag?

A.Pingali Vengayya
B.Udaya Kumar
C.Rabindranath Tagore
D.Robert Bristo
Ans:A 51.Which Political leader is known as Lion of Punjab?
A.Bhagat Singh
B.Sukhdev Singh
C.Lala Lajpath Rai
D.Raj Guru
Ans:C
52. Nagarjuna Sagar Project is situated across which river?
52. Nagarjuna Sagar Project is situated across which river? A.Godavari
A.Godavari
A.Godavari B.Krishna
A.Godavari B.Krishna C.Kaveri
A.Godavari B.Krishna C.Kaveri D.Thungabhadra
A.Godavari B.Krishna C.Kaveri D.Thungabhadra Ans:B
A.Godavari B.Krishna C.Kaveri D.Thungabhadra Ans:B 53.Largest island among Lakshadweep island group:

D.Kalpeni
Ans:A
54.In which year was ICDS project launched in India?
A.1970
B.1973
C.1975
D.1980
Ans:C
55. Who was Political Guru of Mahatma Gandhi?
A.S.N.Banerji
B.Gopala Krishna Gokhale
C.M.G.Ranade
D.Dadabhai Naoroji
Ans:B
56.In which congress session was Poornaswaraj resolution
passed?
A.Mumbai
B.Tripura
C.Lucknow
D.Lahore
Ans:D

57.District in which the Kayyur Struggle **1941** took place

A.Kannur
B.Kasarkode
C.Kozhikode
D.Wayanad
Ans:B
58. Which is the largest beach in Kerala?
A.Muzhuppilangad
B.Cherai
C.Sankumugham
D.Payyambalam
Ans:A
59. Which is the birth place of social reformer Vagbadanandha?
A.Kollangode
B.Kannanmoola
C.Patyam
D.Thalassery
Ans:C
60.Name the Social reformer who formed the Cultural Organisation 'Vidyaposhini'?
A.Pandit Karuppan



B.V.T.Battathirippad
C.Swami Anandhatheerthan
D.Swami Agamanandha
Ans:C
64. Who is the present Human resource minister of India?
A.Prakash Javedkar
B.Smrithi Irani
C.Menaka Gandhi
D.Uma Bharathi
Ans:A
65. Who is the present Vice Chairman of Planning Board in Kerala?
A.Aravindh Panagariya
B.Geetha Gopinath
C.V.R.Ramachandran
D.Sudhakar Prasad
Ans:C
66.Which is the first digital state in India?
A.Karnataka
B.Kerala
C.Seemandhra

D.Punjab
Ans:B
67.Who won the Dadasahib Phalke Award in 2015?
A.Shashi Kapoor
B.Gulzar
C.Adoor Gopalakrishnan
D.Manoj Kumar
Ans:D
68.Who is the sports player known as 'Flying fish'?
A.Larisa Latynina
B.Michael Phelps
C.Usain Bolt
D.Milkha Singh
Ans:B
69.Which part of the engine operate the valve?
A.Connecting Rod
B.Crankshaft
C.Camshaft
D.Timing Gears
Ans:C
70.Inlet and exhaust ports are situated in the two stroke

engine at:
A.Oil sump
B.Inlet manifold
C.Air filter
D.Cylinder valves
Ans:D
71. Piston Rings are commonly made of:
A.Cast Iron
B.Bronze
C.Zink
D.Copper
Ans:A
72. Cutting Tool used to finishing and enlarging a drilled is
known as:
A.Die
B.Reamer
C.Bore gauge
D.Tap
Ans:B
73.A petrol engine:
A.Is a compression ignition

B.Is an external compression engine
C.Uses gasolian as fuel
D.Is a spark ignition engine
Ans:D
74. Which instrument used to check the specific gravity of the electrolyte of the battery:
A.Hygrometer
B.Hydrometer
C.Hydroscope
D.Lactometer
Ans:B
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75. Engine Radiator core is made of:
A.Braze
A.Braze
A.Braze B.Cast Iron
A.Braze B.Cast Iron C.Plastic
A.Braze B.Cast Iron C.Plastic D.Steel Ans:A
A.Braze B.Cast Iron C.Plastic D.Steel Ans:A 76.The oil lubricating pump operated by:
A.Braze B.Cast Iron C.Plastic D.Steel Ans:A 76.The oil lubricating pump operated by: A.Crankshaft

Ans:D
77. Connecting Roid connect the crankshaft and the:
A.Camshaft
B.Oil pump
C.Piston
D.Cylinder head
Ans:C
78.In-take Air-fuel in petrol engine burned in:
A.Cylinder
B.Caburettor
C.FIP
D.Air Filter
Ans:A
79. Which one of the following types of engines has the longest crankshaft?
A.Radial engine
B.Opposite engine
C.Inline engine
D.'V'engine

80. The connecting rod is built of:

Ans:C

A.Alloy steel
B.Brass
C.Cast iron
D.Aluminium
Ans:A
81. Which part Indicate the oil level on the engine sump?
A.Feeler gauge
B.Plastic gauge
C.Pitch gauge
D.Dipstick
Ans:D
82. The purpose of thermostatic is to keep the engine:
A.At desired temperature
B.Hot
C.Cool
D.Warm
Ans:A
83. Which one of the following parts is not a part of engine exhaust system?
A.Valve
B.Muffer

C.Pressure cap
D.Tail pipe
Ans:C
84.On the rear end of the crankshaft is mounted:
A.Fly wheel
B.Counter weight
C.Vibration damper
D.Timing sprocket
Ans:A 85.The minimum number compression rings in an automotive engine:
A.Three
B.Five
C.Two
D.One
Ans:C
86.A Diesel engine:
A.CI engine
B.SI engine
C.External combustion engine
D.Use gasoline as fuel
Ans:A

87. During suction stroke the charge drawn in a petrol engine is: A.Petrol only B.Air only C.Air petrol mixture D.None of the above Ans:C 88.In a diesel engine feed pump is located on: A.Cylinder head **B.FIP** C.Air filter **D.Injector** Ans:B 89. Valves are arranged to open before T.D.C. or B.D.C is reached this is called: A.Lag **B.Lead** C.Overlap

90. The mostly common used valve in automobile engine:

D.None of the above

Ans:B

A.Poppet valve
B.Sleeve valve
C.Rotary valve
D.None of these
Ans:A
91.In diesel engine the fuel ignited by:
A.Glow plug
B.Spark plug
C.By virtue of temperature of compressed air
D.Injector
Ans:C
92.The camshaft controls:
A.Valve opening
B.Valve closing
C.Valve timing
D.All of these
Ans:D
93. Water sludge is formed in the crank due to mixing of:
A.Fuel and oil
B.Water and fuel
C.Water and oil

D.Water and oil
Ans:C
94. The exhaust manifold in small diesel engine is made of:
A.Cast iron
B.Brass
C.Aluminium
D.Copper
Ans:A
95. Slow seeping of fuel oil from the nozzle tip after cut off the fuel is called:
A.Clogging
B.Seepage
C.Pouring
D.Dribbing
Ans:D
96.From the oil pump the oil goes directly to:
A.Oil gallery
B.Oil strainer
C.Oil filter
D.Pressure switch
Ans:C

97. The hand priming device is put to use when the engine is:

A.Idling
B.Buring at full speed
C.Running at full speed
D.Not working
Ans:D
98. Which one of the following types of engine has the highest fuel efficiency?
A.Opposite engine
B.Radial engine
C.Inline engine
D.'V'engine
Ans:B
99.If the thermostatic is stuck closed, the engine will:
A.Over heat
B.Warm up slowly
C.Fail to start
D.Idle
Ans:A
100.Which of the following conductors is used as heating elements?

A.Tungsten	
B.Carbon	
C.Copper	
D.Nichrome	

Ans:D