

JUNIOR INSTRUCTOR(MECHANIC MOTOR VEHICLE)INDUSTRIAL TRAINING

EXAM DATE:28-10-2015

1.What type of clutch is used in two wheelers?

- A.Multi plate clutch\*
- B.Cone clutch
- C.Single plate clutch
- D.Diaphragm clutch

Ans:A

2.In Hotchkiss drive,rear end driving torque is taken up by:

- A.Rear axle housing
- B.Rear leaf spring\*
- C.Shock absorber
- D.Engine mounting

Ans:B

3.The main function of a universal joint is to:

- A.Transfer the engine power in a straight line only
- B.Accomodate change in length of drive shaft\*
- C.Allow variation of angle between main shaft and drive shaft
- D.All of the above

Ans:C

4.The components of an automobile transmission system that facilitate the drive to turn at right angle are:

- A.Planet pinion and sun gear
- B.Bevel pinion and sun gear

C.Crown wheel and sun gear

D.Bevel pinion and crown wheel\*

Ans:D

5.Transfer case is used for:

A.Rear wheel drive vehicles

B.Front wheel drive vehicles

C.Four wheel drive vehicles\*

D.Two wheel drive vehicles

Ans:C

6.The driven member of torque converter is known as:

A.Turbine\*

B.Stator

C.Impeller

D.Flywheel

Ans:A

7.Double de-clutching is used on:

A.Sliding mesh gear box

B.Synchromesh gear box

C.Constant mesh gear box\*

D.Epicyclic gear box

Ans:C

8.In a differential action which gear does not revolve in a straight drive?

A.Sun gear

B.Planetary gear\*

C.Crwn wheel

D.Pinion

Ans:B

9.The function of gear box is to:

A.Increase speed

B.Increase torque

C.Provide neutral

D.All of the above\*

Ans:D

10.Which type of gear permits lower position of propeller shaft?

A.Herring bone

B.Hypoid\*

C.Bevel

D.Spiral

Ans:B

11.The head light of a vehicle is connected with the battery in:

A.Parallel\*

B.Series

C.Compound

D.Either(A)of (B)

Ans:A

12.The state of charge of battery is checked by:

A.Cell tester

B.Hydrometer

C.Multimeter

D.All of the above\*

Ans:D

13.If three resistances 6 ohm,4 ohm and 3 ohm are connected in parallel,what will be the total resistance?

A.13 Ohm

B.1.3 Ohm\*

C.6.5 Ohm

D.26 Ohm

Ans:B

14.Which one of the shell around the nucleus of an atom is mentioned by the letter”M”?

A.First

B.Second

C.Third\*

D.Fourth

Ans:C

15.One reason why an alternator produces a higher output than a dynamo is because,the alternator:

A.Is driven fast\*

B.Has a commutator

C.Generates direct current

D.Always uses a negative earth

Ans:A

16.The output of an alternator is converted by:

- A.Voltage regulator
- B.Current regulator
- C.Diod rectifier\*
- D.Cut out relay

Ans:C

17.Inertia type starting motor drive is comonly used on:

- A.Cars\*
- B.Heavy vehicles
- C.Commercial vehicles
- D.None of the above

Ans:A

18.The cable colour code of head lamp circuit is:

- A.Red
- B.Brown
- C.Green
- D.Blue\*

Ans;D

19.A semi conductor material have,how much electrons in its outermost orbit?

- A.Two
- B.Four\*
- C.One
- D.Three

Ans:B

20.The central section of a transistor is called:

- A. Emitter
- B. Base\*
- C. Collector
- D. Hole

Ans:B

21.If air fuel mixture is compressed in a cylinder?

- A. Its volume reduces
- B. Its pressure will rise
- C. Its temperature will rise
- D. All of the above\*

Ans:D

22.An engine has a clearance volume of  $100 \text{ cm}^3$  and a swept volume of  $900 \text{ cm}^3$ .The compression ratio is:

- A. 10:1\*
- B. 8:1
- C. 11:1
- D. 9:1

Ans:A

23.Speed of a four stroke engine is 1000 rpm.The number of power strokes per minute will be:

- A. 4000
- B. 500\*

C.400

D.1000

Ans:B

24.During which one of the following strokes,the pressure in the engine cylinder become less than the atmospheric pressure?

A.Suction

B.Compression

C.Power\*

D.Exhaust

Ans:C

25.Diesel cycle engines are also known as:

A.Constant volume cycle engines

B.Constant vacuum cycle engines

C.Constant pressure cycle engines\*

D.Dual cycle engines

Ans:C

26.1 Kilowatt is equal to:

A.746 HP

B.4500 HP

C.1.3596 HP\*

D.735.5 HP

Ans:C

27.Engine BHP is measured by:

A.Barometer

B.Hydrometer

C.Odometer

D.Dynamometer\*

Ans:D

28.Turbo charger is used for diesel engines to increase:

A.Mechanical efficiency

B.Volumetric efficiency

C.Theraml efficiency

D.All of the above\*

Ans:D

29.During the upward stroke of a two stroke petrol engine,which of the following events takes place?

A.Compression and suction\*

B.Compression and exhaust

C.Compression and power

D.Compression and transfer

Ans:A

30.In the following statements,which is suitable for a petrol engine?

A.High initial cost

B.High maintenance cost

C.High running cost\*

D.All of the above

Ans:C

31.A four cylinder four stroke petrol engine have:



- A.Two valves
- B.Four valves
- C.Eight valves\*
- D.Sixteen valves

Ans:C

32.The purpose of piston ring is to control:

- A.Compression pressure
- B.Oil consumption
- C.Cylinder wall lubrication
- D.All of the above\*

Ans:D

33.The engine valves are closed by:

- A.Cam shaft
- B.Valve Spring\*
- C.Rocker arm
- D.Push rod

Ans:B

34.The function of lubrication system is to:

- A.Provide cooling effect
- B.Provide sealing effect
- C.Reduce wear
- D.All of the above\*

Ans:D

35.Which one of the following pump is not used for engine lubrication?

A.Gear type

B.Vane type

C.Impeller type\*

D.Plunger type

Ans:C

36.Feed pumps in diesel engines are generally mounted in between:

A.Tank and filter

B.FIP and Filter\*

C.FIP and Injector

D.Injector and manifold

Ans:B

37.Hand priming device in a diesel engine is useful,when the engine is at:

A.Full load

B.Rest\*

C.Idling speed

D.Full speed

Ans:B

38.In a positive crank case ventilation system,the blow by gas drawn from the crank is fed to the :

A.Combustion chamber

B.Inlet manifold\*

C.Exhaust manifold

D.A vent opened to the atmosphere

Ans:B

39.The total swept volume in all cylinders of an engine is called:

- A.Volumetric efficiency
- B.Overall efficiency
- C.Compression ratio
- D.Cubic capacity\*

Ans:D

40.The material used for camshaft is:

- A.Alloy steel\*
- B.High carbon steel
- C.Cast iron
- D.Mild steel

Ans:A

41.Advancing of valve opening is called:

- A.Valve overlap
- B.Valve lag
- C.Valve lead\*
- D.Valve delay

Ans:C

42.Octane number of petrol is generally ranges from:

- A.80-90\*
- B.40-60
- C.60-70
- D.100-110

Ans:A

43.Loud popping in carburetor is due to:

- A.Incorrect air-fuel ratio
- B.Blocked air cleaner
- C.Back firing\*
- D.Loose mounting of carburetor

Ans:C

44.In which of the following engine have more thermal efficiency?

- A.Petrol
- B.Diesel\*
- C.Gas
- D.Electric

Ans:B

45.From where,the air and fuel is mixed in a petrol engine?

- A.Inlet manifold
- B.Combustion chamber
- C.Air cleaner
- D.Carburetor\*

Ans:D

46.The process of adjusting the quantity of fuel delivered by the fuel injection pump is:

- A.Phasing
- B.Calibration\*
- C.Timing

D.Bleeding

Ans:B

47.The type of carburetor used in two wheeler vehicle is:

A.SU\*

B.Solex

C.Carter

D.Zenith

Ans:A

48.Air cleaner is used for:

A.Cleaning the incoming air for combustion

B.Reducing the noise of incoming air

C.To arrest the flame during engine back fire

D.All of the above\*

Ans:D

49.The function of ignition coil is:

A.To make and break the primary circuit

B.To step down the battery voltage

C.To step up the battery voltage\*

D.All of the above

Ans:C

50.Spark plug gap ranges from:

A.5mm-10 mm

B.0.5mm to 1 mm\*

C.1mm-5mm

D.0.5mm-3.5mm

Ans:B

51.MPFL Engines have MAP sensor.What meant by MAP?

A.Manifold Absolute Pressure\*

B.Maximum Air Pressure

C.Manifold Air Pressure

D.Mean Atmospheric Pressure

Ans:A

52.Turbocharger is worked by the:

A.Engine crank shaft

B.Battery

C.Exhaust gas\*

D.Incoming air

Ans:C

53.Which one of the following is a pollutant substance contained in the engine exhaust gas?

A.Hydrocarbon

B.Carbon monoxide

C.Oxides of nitrogen

D.All of the above\*

Ans:D

54.EGR System stands for:

A.Exhaust Gas Recovery System

B.Exhaust Gas Removing System

C.Exhaust Gas Recirculation System\*

D.Exhaust Gas Reducing System

Ans:C

**55.ABS System controls:**

A.Speed of vehicle

B.Brake efficiency

C.Skidding

D.All of the above\*

Ans:D

**56.Muliple valve technology means:**

A.Enlarging the size of valves

B.Providing more number of valves\*

C.Improving the quality of valves

D.Increasing the speed of valve operation

Ans:B

**57.Catalytic converter have a coating of:**

A.Platinum

B.Palladium

C.Rhodium

D.Any of the above\*

Ans:D

**58.Duration of the vehicle permit is:**

A.5 years\*

B.3 years

C.1 year

D.20 year

Ans:A

59.Which one of the following traffic sign is strictly compulsory for a driver?

A.Mandatory signs\*

B.Informatory signs

C.Cautionary signs

D.All of the above

Ans:A

60.A driver must stop the vehicle,when:

A.Required to do so by any police officer

B.Involved in an accident

C.Any pedestrian crossing the zebra line

D.All the above circumstances\*

Ans:D

61.The Preamble of Indian Constitution is based on the Objectives Resolution drafted by -----and introduced in the first session of Constituent Assembly.

A.K.M.Munshi

B.B.R.Ambedkar

C.Jawaharlal Nehru\*

D.Sarojini Naidu

Ans:C



62.India adopted the concept of constitutional Amendment from -----

A.South Africa\*

B.Great Britain

C.Ireland

D.U.S.A

Ans:A

63.Who acted as representative of President in Union territories?

A.Attorney General

B.Control and Auditor General

C.Vice-President

D.Lieutenant-Governor\*

Ans:D

64.The Eighth schedule of Indian Constitution deals with-----

A.Land reforms

B.Languages\*

C.Panchayati raj

D.Emergency

Ans:B

65.Who among the following was a member of Indian constituent assembly formed in 1946?

A.Susheela Gopalan

B.Annie Mascreeen\*

C.Lakshmi N.Menon

D.A.V.Kuttimalu Amma

Ans:B

66.Who was the head of the commission appointed in 1983 to examine centre state relations?

A.Rajinder Singh Sarkaria\*

B.Balvanth Rai Mehta

C.Dinesh Goswami

D.Motilal Vora

Ans:A

67.Which day is celebrated as World Blood donation day?

A.January 16

B.June 14\*

C.October 21

D.November 8

Ans:B

68.Political parties were brought under Right to Information Act in the year:

A.2012

B.2013

C.2014

D.2015

Ans:-----

69.India's first fast tract court for dealing with atrocities against women and children is at:

A.Malda\*

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B.Patna

C.Pune

D.Kochi

Ans:A

70.Wild life protection act was passed in the year-----

A.1963

B.1970

C.1972\*

D.1980

Ans:C

71.The English newspaper"Pro-India"was started by-----

A.Chettoor Sankaran Nair

B.Chembakaraman Pillai\*

C.Nilakanda Brahmachari

D.V.O.Chidambaram Pillai

Ans:B

72.Who founded Ramakrishna Advaita Ashram at Kalady?

A.Swami Agamananda\*

B.Brahmananda Swami Sivayogi

C.Vaikunda Swamikal

D.Vagbhadananda

Ans:A

73.The newspaper "Kerala Kaumudi"was started by-----to further the ideals of Sree Narayana Guru:

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A.K.Ayyappan

B.T.K.Madhavan

C.Krishnaswami Aiyer

D.C.V.Kunjuraman\*

Ans:D

74.The title"Vayalar Stalin"is associated with:

A.C.K.Kumara Panikkar\*

B.R.Shanker

C.A.P.Udayabhanu

D.T.M.Varghese

Ans:A

75.Who was the author of the drama"Pattabakki"?

A.C.V.Raman Pillai

B.K.Damodaran\*

C.M.P.Bhattathiripad

D.E.V.Krishnapillai

Ans:B

76.Who among the following was nominated in Cochin legislative assembly to advice about the Namboodiri Bill?

A.Parvathy Nenmeni Mangalam\*

B.Arya Pallam

C.Eshwari Ammal

D.Kaumudi Teacher

Ans:A

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77.Who is known as the father of Malayalam typography and printing?

- A.Herman Gundert
- B.Benjamin Bailey\*
- C.devj Bhimji
- D.Kandathil Varghese Mappila

Ans:B

78.Who is the author of the work “Pracheenamalayalam”?

- A.Ayyankali
- B.C.Krishnan
- C.Poikayil Yohannan
- D.Chattambi Swamikal\*

Ans:D

79.At-----Sree Narayana Guru consecrated a temple and installed a stone containing the words”Truth,Duty,Kindness and Peace”.

- A.Kalavankode
- B.Aruvipuram
- C.Murukumpuzha\*
- D.Karamukku

Ans:C

80.Who was the main leader of the Suchindram Sathyagraha?

- A.A.K.Gopalan
- B.Dr.M.E.Naidu\*
- C.K.Kelappan
- D.C.Rajagopalachari

Ans:B

81.Which one of the following is an indirect measuring tool?

- A.Inside caliper\*
- B.Varnier Caliper
- C.Bevel Protractor
- D.Inside Micrometer

Ans:A

82.In a metric micrometer ,a complete revolution of thimble advances:

- A.0.01 mm
- B.0.25 mm
- C.0.50 mm\*
- D.1.00 mm

Ans:C

83.The angle which is less than 90 degree is called as:

- A.Obtuse angle
- B.Acute Angle\*
- C.Right Angle
- D.None of the above

Ans:B

84.Which one of the following designation does not denote the grade of a file?

- A.Bastard
- B.First cut\*
- C.Second cut

D.Smooth

Ans:B

85.The tool used for refitting piston rings on piston is:

A.Piston ring expander\*

B.Piston ring compressor

C.Circlip plier

D.Valve spring compressor

Ans:A

86.In which nut having an internal groove cut,in which a fibre or nylon ring inserted?

A.Thumb nut

B.Castle nut

C.Cape nut

D.Simmonds lock nut\*

Ans:D

87.The tool used to measure the clearance between two surfaces is called:

A.Fillet gauge

B.Snap gauge

C.Feeler gauge\*

D.Limit gauge

Ans:C

88.Tap wrench is a tool used top make:

A.Key ways

- B.Oil holes
- C.External threads
- D.Internal threads\*

Ans:D

89.A metal can be drawn in to wires without rupture.This property of metal is known as:

- A.Malleability
- B.Ductility\*
- C.Machinability
- D.Toughness

Ans:B

90.The tool used to measure the thicknes,of sheet is called:

- A.Screw pitch gauge
- B.Ring gauge
- C.Feeler gauge
- D.Wire gauge\*

Ans:D

91.Wear on one side of tyre is due to:

- A.Excessive camber\*
- B.Excessive caster
- C.Under inflation
- D.Over inflation

Ans:A

92.King pin is locked in the beam by a:



A.Stub axle

B.Cotter pin\*

C.Drop arm

D.Split pin

Ans:B

93.Tie rod ends have the following threads:

A.Left hand

B.Right hand

C.Either(A)or (B)

D.Both(A)and (B)\*

Ans:D

94.Which one of the following is not considered for calculating the unsprung weight?

A.Steering knuckle

B.Brakes

C.Axles

D.Chassis frame\*

Ans:D

95.In an integral power steering system,fluid flow is controlled by:

A.Plunger

B.Check valve

C.Spool valve\*

D.Hydraulic pump

Ans:C

96.Which one of the following is not a part of master cylinder?

- A.Piston
- B.Push rod
- C.Check valve
- D.Piston rings\*

Ans:D

97.In air brakes,what is the position of valves in brake valve,when brake pedal is Released?

- A.Both inlet and outlet closed
- B.Inlet closed and outlet opened\*
- C.Inlet opened and outlet closed
- D.Both inlet and outlet remains opened

Ans:B

98.The procedure of removing air out of the braking system is known as:

- A.Brake adjusting
- B.Brake dragging
- C.Brake bleeding\*
- D.Brake compensating

Ans:C

99.Hydraulic brakes works on the principle of:

- A.Pascal's law\*
- B.Boyle's law
- C.Charl's law
- D.Newton's law

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Ans:A

100.The rocking chair action of vehicle during running is known as:

A.Rolling

B.Pitching

C.Bouncing\*

D.Wobbling

Ans:C

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