

PROVISIONAL ANSWER KEY

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Question1:-The first mass movement started by Gandhiji in India

- A:-Quit India
 - B:-Non-co-operation
 - C:-Satyagraha
 - D:-Civil Disobedience
- Correct Answer:- Option-B

Question2:-The Tebhaya movement started in

- A:-Bengal
 - B:-Andrapradesh
 - C:-Bombay
 - D:-Gujarat
- Correct Answer:- Option-A

Question3:-The leader of Abhinav Bharat Society

- A:-Lala Hardayal
 - B:-Surya Sen
 - C:-Pulin Bihari Das
 - D:-V.D. Savarkar
- Correct Answer:- Option-D

Question4:-The first person to hoist Indian tricolour flag in an international flat forum

- A:-Subash Chandra Bose
 - B:-Jawaharlal Nehru
 - C:-Madame Bhikaji Cama
 - D:-C.R. Das
- Correct Answer:- Option-C

Question5:-The leader of 1857 revolt at Kanpur

- A:-Nana Saheb
 - B:-Bahadur Shah II
 - C:-Beegum Hazret Mahal
 - D:-Maulavi Ahammedullah
- Correct Answer:- Option-A

Question6:-The roof of the world

- A:-Himalaya
 - B:-Hindukush
 - C:-Karakoram
 - D:-Pamir Plateau
- Correct Answer:- Option-D

Question7:-The longest Peninsular river

- A:-Mahanadi
 - B:-Godavari
 - C:-Narmada
 - D:-Kaveri
- Correct Answer:- Option-B

Question8:-The Southernmost point of Peninsular India

- A:-Kanyakumari
 - B:-Tamilnadu
 - C:-Indirapoint
 - D:-Srilanka
- Correct Answer:- Option-C

Question9:-The most important tax imposed by the central government

- A:-Land tax
 - B:-Personal Income tax
 - C:-Professional tax
 - D:-Value Added tax
- Correct Answer:- Option-B

Question10:-The proclamation of Free Primary Education in 1817 issued

- A:-Rani Lakshmi Bhai
 - B:-Rani Sethu Bhai
 - C:-Rani Gowri Parvathy Bhai
 - D:-Rani Gowri Lakshmi Bhai
- Correct Answer:- Option-C

Question11:-The father of Kerala Renaissance

- A:-Mannathu Padmanabhan
 - B:-Ayyankali
 - C:-Sri Narayana Guru
 - D:-Chattampi Swamikal
- Correct Answer:- Option-C

Question12:-Samathwasamajam was started by

- A:-Sahodharan Ayyappan
 - B:-Kumara Gurudevan
 - C:-Vaikunda Swamikal
 - D:-V.T. Bhattathiripad
- Correct Answer:- Option-C

Question13:-The Temple Entry Proclamation was announced on

- A:-12 November 1936
 - B:-1 November 1936
 - C:-12 January 1936
 - D:-1 January 1936
- Correct Answer:- Option-A

Question14:-Ayyankali was called Pulaya Raja by

- A:-B.R. Ambedkar
 - B:-Gandhiji
 - C:-K. Kelappan
 - D:-Pandit K.P. Karuppan
- Correct Answer:- Option-B

Question15:-Founder of Aryasamaj in Kerala

- A:-Kumara Gurudevan
 - B:-Vagbhatananda
 - C:-Vakkam Abdulkhadar Maulavi
 - D:-Pandit K.P. Karuppan
- Correct Answer:- Option-D

Question16:-The winner of Australian Open Tennis 2016

- A:-Roger Federer
 - B:-Rafael Nadal
 - C:-Stan Wawrinka
 - D:-Andy Murray
- Correct Answer:- Option-A

Question17:-R.B.I. Governor of India

- A:-Raguram Rajan
 - B:-Pranav Mukherji
 - C:-Venkita Ramanan
 - D:-Urjit Patel
- Correct Answer:- Option-D

Question18:-The Jnanpith Award of 2016

- A:-Shankha Ghosh
 - B:-Reghuver Chaudhari
 - C:-Balachandra Nemade
 - D:-Namwarsingh
- Correct Answer:- Option-A

Question19:-First women leader of S.B.I

- A:-Arunima Singha
 - B:-Arundhadhi Bhattachariya
 - C:-Aruna Bhahuguna
 - D:-Usha Anantha Subramaniam
- Correct Answer:- Option-B

Question20:-The Chief Minister of Andrapradesh

- A:-Chandra Sekhar Reddy
 - B:-Sidha Ramayya
 - C:-Aravid Kejariwal
 - D:-Chandra Babu Naidu
- Correct Answer:- Option-D

Question21:-The component used to overcome viscous drag in the multi plate wet clutch

- A:-Solenoid
 - B:-Hydraulic pump
 - C:-Clutch brake
 - D:-Disc valve
- Correct Answer:- Option-C

Question22:-Arrangement of the chassis in which provide maximum utilization of space

- A:-Full-forward control chassis
 - B:-Semi-forward control chassis
 - C:-Conventional control chassis
 - D:-None of these
- Correct Answer:- Option-A

Question23:-To accommodate any misalignment between the engine or transmission relative to frame or body with the help of

- A:-Brackets
 - B:-Side member
 - C:-Sub frame
 - D:-Rubber blocks
- Correct Answer:- Option-D

Question24:-In a rear axle drive vehicle, torque reaction and braking torque are transmitted from the axle casing to the frame by means of

- A:-Pan hard rod
 - B:-Leaf spring
 - C:-Torsion bar
 - D:-Stabilizer bar
- Correct Answer:- Option-B

Question25:-Hazard flashers are used to indicate

- A:-A slow moving vehicle in high speed lane
 - B:-A disabled vehicle in high speed lane
 - C:-A vehicle stopped in moving traffic
 - D:-All of these
- Correct Answer:- Option-D

Question26:-Which type of brake chamber is provided with fail safe parking brake?

- A:-Spring brake chamber
 - B:-Single diaphragm brake chamber
 - C:-Double diaphragm brake chamber
 - D:-Triple diaphragm brake chamber
- Correct Answer:- Option-A

Question27:-The propellant unit of air bag consists of

- A:-Potassium chloride and silver nitrate
 - B:-Potassium chloride and sodium azide
 - C:-Potassium nitrate and sodium azide
 - D:-Potassium nitrate and sodium chloride
- Correct Answer:- Option-C

Question28:-Which of the following is controls fuel surge in fuel tank on vehicle movement?

- A:-Ribs
- B:-Baffles

C:-Brackets

D:-Belts

Correct Answer:- Option-B

Question29:-Excess fuel pressure in a CRDI engine system is protected with a

A:-ECU

B:-Rail pressure sensor

C:-Pressure limiter valve

D:-Flow limiter

Correct Answer:- Option-C

Question30:-The function of an air cleaner

A:-Act as silencer

B:-Act as flame arrester

C:-Filtering intake air

D:-All of these

Correct Answer:- Option-D

Question31:-What are the basic factors affect the gear selection?

A:-Vehicle load and engine speed

B:-Vehicle speed and engine load

C:-Vehicle load and road condition

D:-Engine speed and road condition

Correct Answer:- Option-B

Question32:-The cavitations formed inside the torque converter centre is the result of

A:-Low oil pressure

B:-Less engine RPM

C:-Less torque conversion

D:-None of these

Correct Answer:- Option-A

Question33:-The plunging type constant velocity joint is employed at the _____ end of the drive shaft.

A:-Wheel end

B:-Differential end

C:-Both (1) and (2)

D:-Main shaft end

Correct Answer:- Option-B

Question34:-Which of the following is not a reason for humming noise from the rear axle?

A:-Worn out differential bearings

B:-Backlash between crown and pinion

C:-Worn out gears

D:-Worn out axle shaft splines

Correct Answer:- Option-D

Question35:-The material used to improve the resistance to wear of rubber threads in a tire is

A:-Nylon

B:-Rayon

C:-Carbon black

D:-Terylene

Correct Answer:- Option-C

Question36:-Which part of a master cylinder serves to retain the residual pressure in the brake lines even when the brakes are released?

A:-Check valve

B:-Piston

C:-Piston return spring

D:-Primary cup

Correct Answer:- Option-A

Question37:-Lamda sensors are located at

A:-Exhaust manifold

B:-Inlet manifold

C:-Throttle body

D:-Timing cover

Correct Answer:- Option-A

Question38:-Sedimentation type fuel filters are generally used as

- A:-Baby filter
- B:-Secondary filter
- C:-Primary filter
- D:-All of these

Correct Answer:- Option-C

Question39:-Which one of the following is a cylinder head gasket material?

- A:-Felcoprene
- B:-Felcoid
- C:-Cord
- D:-Shimbestose

Correct Answer:- Option-D

Question40:-The ability of engine bearings to accommodate small variation in shaft is its

- A:-Embadability
- B:-Conformability
- C:-Adaptability
- D:-Fatigue strength

Correct Answer:- Option-B

Question41:-The device fitted on diesel engine to develop vacuum to assist the pneumatic governor of FIP

- A:-Compressor
- B:-Inter cooler
- C:-Exhauster
- D:-Super charger

Correct Answer:- Option-C

Question42:-Number of pole fingers in an alternator rotor

- A:-8
- B:-12
- C:-14
- D:-16

Correct Answer:- Option-B

Question43:-Which of the following is a solid lubricant?

- A:-Graphite
- B:-lead
- C:-Tin
- D:-Aluminium

Correct Answer:- Option-A

Question44:-The clearance between the oil pump gear teeth are measured with

- A:-Dial gauge
- B:-Vernier caliper
- C:-Inside micro meter
- D:-Feeler guage

Correct Answer:- Option-D

Question45:-Which one of the following is not affected the fuel economy of an engine?

- A:-Clogged air filter
- B:-Clogged fuel filter
- C:-Leaky engine valves
- D:-Worn out piston rings

Correct Answer:- Option-B

Question46:-Find the probable cause of wheel tramp

- A:-High speed
- B:-Under inflation
- C:-Incorrect toe-in
- D:-Dynamic unbalance

Correct Answer:- Option-D

Question47:-A vehicle with torsion bar suspension required _____ to take the driving and braking thrust.

- A:-Stabilizer bar
- B:-Pan hard rod
- C:-Radius rod
- D:-Torque tube

Correct Answer:- Option-C

Question48:-Which of the under mentioned fault can be change the steering axis inclination?

- A:-Bent wheel spindle
 - B:-Worn out knuckle bearings
 - C:-Bent track rod
 - D:-Tight wheel bearing
- Correct Answer:- Option-A

Question49:-The effect of side wind over the frame side member is its

- A:-Lateral bending
 - B:-Horizontal bending
 - C:-Vertical bending
 - D:-All of these
- Correct Answer:- Option-A

Question50:-Belleville springs are generally known as

- A:-Torsion springs
 - B:-Coil springs
 - C:-Helical springs
 - D:-Diaphragm springs
- Correct Answer:- Option-D

Question51:-Which of the following gear boxes have lesser mechanical efficiency?

- A:-Synchromesh
 - B:-Constant mesh
 - C:-Sliding mesh
 - D:-All of these
- Correct Answer:- Option-C

Question52:-Alloy steels are generally quenched in

- A:-Water
 - B:-Oil
 - C:-Brine
 - D:-Ice
- Correct Answer:- Option-B

Question53:-The fastener used to transmitting torque from a rotating shaft to a hub or vice versa

- A:-Circlip
 - B:-Locking ring
 - C:-Tab washer
 - D:-Key
- Correct Answer:- Option-D

Question54:-Adjustment of FIP in which ensure equal time interval of fuel delivery to all engine cylinders

- A:-Leak off
 - B:-Calibration
 - C:-Phasing
 - D:-Chattering
- Correct Answer:- Option-C

Question55:-The process of continues releasing and applying of brake in an ABS is called

- A:-Pressure modulation
 - B:-Pulse modulation
 - C:-Speed modulation
 - D:-None of these
- Correct Answer:- Option-A

Question56:-Maximum boost pressure of a turbocharger is controlled by a

- A:-EGR valve
 - B:-Waste gate
 - C:-Blow-off valve
 - D:-Pressure release valve
- Correct Answer:- Option-B

Question57:-Annulus in an epicycle gear box is usually known as

- A:-Ring gear
- B:-Carrier
- C:-Planet
- D:-Sun gear

Correct Answer:- Option-A

Question58:-The length variation between leaf spring eyes by the oscillation of leaves are accommodate with the help of

- A:-Centre bolt
- B:-Shackle
- C:-'U' Clamp
- D:-Bracket

Correct Answer:- Option-B

Question59:-Which among the following is a disadvantages of hypoid gear using in final drive?

- A:-Low chassis height
- B:-Smaller pitch overlap
- C:-Rough running
- D:-Less ground clearance

Correct Answer:- Option-D

Question60:-The steering sensor in an electronic power steering system consist of

- A:-Torque and pressure sensor
- B:-Torque and speed sensor
- C:-Torque and rotation sensor
- D:-Speed and rotation sensor

Correct Answer:- Option-C

Question61:-The percentage ratio between difference of vehicle speed and wheel speed to the vehicle speed is

- A:-Velocity ratio
- B:-Speed ratio
- C:-Slip ratio
- D:-Aspect ratio

Correct Answer:- Option-C

Question62:-In a disc brake caliper, the component act as a return spring to retract the piston

- A:-Bleed screw
- B:-Rubber sealing ring
- C:-Disc
- D:-Friction pads

Correct Answer:- Option-B

Question63:-Identify the horn relay with its marking

- A:-HBR
- B:-HRS
- C:-BRS
- D:-HBS

Correct Answer:- Option-D

Question64:-Location of an expansion valve in an automotive air conditioning is at

- A:-Inlet side of evaporator
- B:-Outlet side of evaporator
- C:-Inside the evaporator
- D:-Inlet side of condenser

Correct Answer:- Option-A

Question65:-The socket in which provided with a universal joint

- A:-Deep
- B:-Flex
- C:-Standard
- D:-None of these

Correct Answer:- Option-B

Question66:-The catalyst used for first stage conversion in a three - way convertor

- A:-Vanadium
- B:-Cerium
- C:-Platinum
- D:-Rhodium

Correct Answer:- Option-D

Question67:-Combustion knock in a CI engine is generally known as

- A:-Diesel knock
- B:-Diesel lock
- C:-Both (1) and (2)

D:-Detonation

Correct Answer:- Option-A

Question68:-Which of the following are provided to the crank shaft to the balancing of main journals?

A:-Crank arm

B:-Harmonic balancer

C:-Crank weight

D:-Crank pulley

Correct Answer:- Option-C

Question69:-Permissible range of particulate matters in the exhaust gas of a petrol engine as per Euro 4 emission standard is

A:-0.14 gm/Km

B:-0.08 gm/Km

C:-0.05 gm/Km

D:-None of these

Correct Answer:- Option-D

Question70:-Oil additives which handle high temperature deposit such as gums and varnishes

A:-Dispersant

B:-Detergent

C:-Anti-scurf additives

D:-Anti foaming additives

Correct Answer:- Option-B

Question71:-In an alternator, the carbon brushes ride on the

A:-Commutator

B:-Rotor shaft

C:-Slip ring

D:-Field windings

Correct Answer:- Option-C

Question72:-Choose correct drive transmission from engine to gear box

A:-Fly wheel - cover - drive plate - driven plate

B:-Fly wheel - cover - driven plate - drive plate

C:-Fly wheel - driven plate - drive plate - cover

D:-Fly wheel - drive plate - driven plate - cover

Correct Answer:- Option-A

Question73:-As related to the automatic transmission, the friction loss in the manual transmission is

A:-Less

B:-Same

C:-More

D:-Much more

Correct Answer:- Option-A

Question74:-Separate carrier type rear axle casing is generally known as

A:-Split type

B:-Salisbury type

C:-Banjo type

D:-Integral carrier type

Correct Answer:- Option-C

Question75:-Which among the following springs have the greater energy storing capacity?

A:-Coil spring

B:-Torsion spring

C:-Leaf spring

D:-Rubber spring

Correct Answer:- Option-D

Question76:-The shock absorber dissolve can be reduced by pressurizing the fluid with _____ gas.

A:-Hydrogen

B:-Nitrogen

C:-Oxygen

D:-Carbon dioxide

Correct Answer:- Option-B

Question77:-In the code 145 SR-13 of a radial tire, 13 denominate

A:-Tire width

- B:-Aspect ratio
 - C:-Inner diameter of tire
 - D:-Load carrying capacity
- Correct Answer:- Option-C

Question78:-Which light provide a better night time visibility?

- A:-Halogen
- B:-LED
- C:-Both (1) and (2)
- D:-Xenon

Correct Answer:- Option-D

Question79:-The magnitude of slip angle is small at

- A:-Low speed
- B:-Medium speed
- C:-High speed
- D:-Very high speed

Correct Answer:- Option-A

Question80:-In SI engine, which one of the following combustion chamber have centrally located spark plug?

- A:-Flat head
- B:-Hemispherical
- C:-Wedge type
- D:-Inverted bath tub

Correct Answer:- Option-B

Question81:-To improve the resistance to wear and corrosion, cylinder liners are plated with

- A:-Platinum
- B:-Vanadium
- C:-Zinc
- D:-Chromium

Correct Answer:- Option-D

Question82:-Which one of the following is not an advantage of toothed belt drive?

- A:-Silent drive
- B:-Lowest cost
- C:-Long life
- D:-No need of lubrication

Correct Answer:- Option-C

Question83:-Tendency of fuel to change from liquid to vapour form is called

- A:-Pour point
- B:-Volatility
- C:-Viscosity
- D:-Flash point

Correct Answer:- Option-B

Question84:-Cold plugs are generally used in

- A:-High speed heavy duty engines
- B:-Low speed heavy duty engines
- C:-Low speed medium duty engines
- D:-Both (2) and (3)

Correct Answer:- Option-A

Question85:-Which one of the given carburetor is a constant vacuum type?

- A:-Carter carburetor
- B:-S.U. carburetor
- C:-Zenith carburetor
- D:-Solex carburetor

Correct Answer:- Option-B

Question86:-What are the advantages of dual mass fly wheel over a single fly wheel?

- A:-Less synchronization wear
- B:-Gear shifting easy
- C:-Reducing neutral gear rattle
- D:-All of these

Correct Answer:- Option-D

Question87:-More injection delay period will lead to

- A:-Diesel knock
 - B:-Detonation
 - C:-Both (1) and (2)
 - D:-Controlled combustion
- Correct Answer:- Option-A

Question88:-Which one of the following is not a part of cover assembly in a clutch?

- A:-Pressure plate
- B:-Release lever
- C:-Release bearing
- D:-Springs

Correct Answer:- Option-C

Question89:-Free wheel unit in the transmission are provided with dog clutch to

- A:-Lock free wheel
- B:-Engage free wheel
- C:-Disengage free wheel
- D:-None of these

Correct Answer:- Option-A

Question90:-Critical whirling speed of a propeller shaft can be increased by

- A:-Decreasing diameter
- B:-Increasing length
- C:-Both (1) and (2)
- D:-Decreasing length

Correct Answer:- Option-D

Question91:-Which member of a torque converter is also known as reactor?

- A:-Lock up clutch
- B:-Stator
- C:-Impeller
- D:-Turbine

Correct Answer:- Option-B

Question92:-Front wheel drive cars are usually employed with _____ type independent suspension to provide maximum room in the engine compartment.

- A:-Vertical guide
- B:-Trailing link
- C:-Mac Pherson strut
- D:-Wish bone

Correct Answer:- Option-C

Question93:-The effect of positive scrub radius on the road wheels are

- A:-Toe-in
- B:-Toe-out
- C:-Pull to one side
- D:-Wobble

Correct Answer:- Option-B

Question94:-Glow plugs are fitted an engine with

- A:-Pre combustion chamber
- B:-Turbulent chamber
- C:-Both (1) and (2)
- D:-Open combustion chamber

Correct Answer:- Option-A

Question95:-The main disadvantage of lower aspect ratio

- A:-More tire wear
- B:-Less cornering power
- C:-High speed shimmy
- D:-Uncomfortable ride

Correct Answer:- Option-D

Question96:-Contact breaker point of a 6 cylinder 4 stroke engine operating at 3000 RPM will make and break for _____ times in a minute.

- A:-3000
- B:-6000
- C:-9000

D:-12000

Correct Answer:- Option-C

Question97:-One bar is equal to

A:-10 Kpa

B:-100 Kpa

C:-1000 Kpa

D:-10000 Kpa

Correct Answer:- Option-B

Question98:-Piston rings and cylinder liners are

A:-Die casted

B:-Hollow casted

C:-Sand casted

D:-Centrifugal casted

Correct Answer:- Option-D

Question99:-Gear mechanism in a slack adjuster

A:-Worm and wheel

B:-Worm and nut

C:-Worm and roller

D:-Rack and pinion

Correct Answer:- Option-A

Question100:-The types of lubrication in which scavenging pump required

A:-Splash system

B:-Pressure system

C:-Dry sump system

D:-Petrol system

Correct Answer:- Option-C