







1. The only State in India which is having a river named after it is  
A) Manipur  
B) Meghalaya  
C) Tripura  
D) Mizoram
2. Port Blair is the Capital of  
A) Pondichery  
B) Laksha Dweep  
C) Daman and Diu  
D) Andaman and Nicobar Islands
3. Which Five Year Plan is also known as "Mahalanobis Model" ?  
A) First  
B) Second  
C) Third  
D) Fourth
4. Who was called 'Father of Indian unrest' ?  
A) M. K. Gandhi  
B) Dadabhai Navaraji  
C) Bala Gangadhar Tilak  
D) Gopal Krishna Gokhale
5. Who was the author of 'Poverty and Un British Rule in India' ?  
A) R. S. Sharma  
B) Dadabhai Navaraji  
C) M. K. Gandhi  
D) A. R. Desai
6. Mahatma Gandhi gave the call 'Do or Die' during  
A) Non Co-operation Movement  
B) Lahore Congress  
C) Dandi March  
D) Quit India Movement
7. In which year Indian National Congress declared 'Poorna Swaraj' as its goal ?  
A) 1906  
B) 1920  
C) 1929  
D) 1942
8. Who was made the leader of 1857 revolt ?  
A) Bahadur Shah II  
B) Jhansi Rani  
C) Nana Saheb  
D) Mangal Pandey
9. Which is the largest backwater in Kerala ?  
A) Sasthamcotta lake  
B) Vembanad lake  
C) Kayamkulam lake  
D) Ashtamudi lake
10. The Cherambadi Pass connects Kerala with  
A) Coorg  
B) Mysore  
C) Coimbatore  
D) Madurai



11. What was the early name of Thycaud Ayya Swamikal ?  
A) Kunjan Pillai  
B) Kumaran  
C) Narendran  
D) Subharayan
12. Who was the author of 'Veena Poovu' ?  
A) Changampuzha  
B) Vallathol  
C) Kumaran Asan  
D) G. Shankara Kurup
13. Kallumala Samaram of 1915 was organized by  
A) Ayyankali  
B) K. Kelappan  
C) K. Ayyappan  
D) Mannath Padmanabhana
14. Who was the founder of 'Prathyaksha Raksha Daiva Sabha' ?  
A) Vagbhatanandan  
B) Brahmananda Siva Yogi  
C) Poikayil Yohannan  
D) T. M. Varghese
15. Chattampi Swamikal had taken his last breath at  
A) Vaikom  
B) Panmana  
C) Sivagiri  
D) Chempazhanthi
16. Which day onwards the GST (Goods and Services Tax) was implemented in India ?  
A) April 1, 2017  
B) June 1, 2017  
C) July 1, 2017  
D) August 1, 2017
17. Who is the Chief Election Commissioner of India ?  
A) Nasim Zaidi  
B) V. S. Sampath  
C) J. M. Lyngdoh  
D) Achal Kumar Jyoti
18. Which country won the ICC Women's World Cup in 2017 ?  
A) India  
B) England  
C) France  
D) South Africa
19. Who won the Nobel Prize for literature in 2016 ?  
A) Bob Dylan  
B) Juan Manuel Santos  
C) Svetlana Alexievich  
D) Yoshinori
20. Which became the first Indian City declared by UNESCO as World Heritage City ?  
A) Calcutta  
B) Agra  
C) Patna  
D) Ahmedabad



21. In order to maintain uniform temperature all along circumference and to avoid sticking, of valves \_\_\_\_\_ is used.
- A) Rocker arm                              B) Guide  
C) Spring                                  D) Rotator
22. An engine having equal bore and stroke is called
- A) Square engine                          B) Radial engine  
C) Wankel engine                          D) Gas turbine
23. To eliminate slapping tendency of pistons towards cylinder, the following method is used
- A) Cylinder liners                          B) Gasketing of piston  
C) Offsetting                                D) Dual chroming
24. Automotive connecting rods are generally made by
- A) Casting                                  B) Grinding  
C) Cutting                                  D) Forging
25. Steel inserts in auto thermic pistons are used to
- A) Reduce piston size  
B) Control the expansion  
C) Reduce the piston inertia  
D) Increase temperature
26. A dish on the piston head is provided for
- A) Controlling compression ratio  
B) Lowering piston weight  
C) Employing valve clearance  
D) Avoiding piston slap
27. The clearance provided between the cam and tappet to allow for expansion due to heat, is called
- A) Valve lead                                B) Valve lash  
C) Valve clearance                        D) Tappet clearance
28. The face angle of exhaust valve is
- A) 65°    B) 30°  
C) 45°    D) 70°



29. Plastigauge is used to find the clearance of
- A) Piston pin
  - B) Bearing
  - C) Rings
  - D) Valves
30. The valve guide stem clearance is measured by using a
- A) Inside vernier calliper
  - B) Scriber
  - C) Dial Gauge
  - D) Inside micrometer
31. When pressure in the cooling system exceeds a certain predetermined value, the excess pressure will be released to atmosphere through
- A) Blow off valve
  - B) Pressure valve
  - C) Vacuum valve
  - D) Expansion reservoir
32. The compression ratio at which the detonation starts is known as
- A) Detonating compression ratio
  - B) Optimum ratio
  - C) Preignition ratio
  - D) HUCR
33. In a carburettor, when the choke is applied, the fuel comes out from
- A) Acceleration part
  - B) Auxiliary jet
  - C) Main jet
  - D) Idle jet
34. The phenomenon by which the engine continuing to run even after the ignition is turned off is called
- A) Run over
  - B) Knocking
  - C) Dieseling
  - D) Run-in
35. The end of a philips type screw driver is
- A) Flat blade
  - B) With four grooves
  - C) Fluted end
  - D) Slab head
36. The fluctuation of engine speed during a cycle depends upon
- A) Speed of flywheel
  - B) Speed of piston
  - C) Weight of crankshaft
  - D) Mass of flywheel



37. The stroke is increased when the
- A) Connecting rod lengthened
  - B) Piston is shortened
  - C) Crank throw is lengthened
  - D) Piston pin shortened
38. The type of fuel injector nozzles used with pre combustion chamber engines are
- A) Pintle type
  - B) Hole type
  - C) Pinax type
  - D) Pneumatic type
39. Identify the one which is not a cold starting device in diesel engines
- A) Chemical spray
  - B) Heater plugs
  - C) Aneroids
  - D) Decompression devices
40. A component which is employed to avoid overheating of ignition coil
- A) Contact breaker
  - B) Capacitor
  - C) Iron core
  - D) Ballast resistor
41. Vacuum advance mechanism provide ignition advance according to
- A) Fuel consumption
  - B) Engine speed
  - C) Engine load
  - D) Ignition timing
42. Spark plug having white insulator tip indicates
- A) Retarded ignition
  - B) Incorrect dwell
  - C) Very high secondary voltage
  - D) Over advanced ignition
43. A component used for accurate timing of electronic fuel injection due to its high accuracy and long term reliability, is
- A) Hall effect sensor
  - B) Pulse generator
  - C) Thyatron
  - D) CDI system
44. A fully discharge battery have its positive plates covered with
- A)  $PbO_2$
  - B) Pb
  - C)  $PbH_2O$
  - D)  $PbSO_4$



45. Number of batteries can be charged at a time using  
A) Constant voltage charging                      B) Constant current charging  
C) Booster charging                                      D) Trickle charging
46. In an alternator the magnetic field is produced in the  
A) Commutator    B) Stator  
C) Rotor    D) Housing
47. The stator of an alternator have  
A) One winding    B) Three windings  
C) Two windings    D) Four windings
48. Pick out the one which is not an inertia drive  
A) Folo thru drive    B) Rubber spring type drive  
C) Dyer drive    D) Standard Bendix drive
49. "ISAD" stands for  
A) Integrated Starter Alternator Damper  
B) Intelligent Starting And Detachment  
C) International System of Automotive Designs  
D) Indian Society for Automobile Designs
50. For a stoichiometric air fuel mixture, the excess of air consumed by the engine will be equals  
A) 0.5    B) 1.0  
C) 1.5    D) 0.95
51. Charcoal canister is used to absorb  
A) Hydro carbon    B) Fuel vapour  
C) Water vapour    D) Emissions
52. In petrol engines; the three way catalytic converter, the first converter controls  
A) CO    B) HC  
C) NO<sub>x</sub>    D) Particulate Matter
53. Doubling the engine cylinder diameter increases the piston thrust by  
A) 2 times    B) 4 times  
C) 8 times    D) 6 times





54. The firing order of a six cylinder engine is  
A) 1 – 3 – 5 – 6 – 2 – 4                      B) 1 – 3 – 5 – 2 – 4 – 6  
C) 1 – 3 – 2 – 6 – 4 – 5                      D) 1 – 5 – 3 – 6 – 4 – 2
55. The distance between TDC to BDC, in degree  
A) 180    B) 90  
C) 360    D) 45
56. The needle valve of the carburettor is closed by means of a  
A) Spring    B) Tickler  
C) Float    D) Throttle
57. Increase in the plate area of a battery cell increases  
A) The voltage                                      B) The specific gravity  
C) The resistance                                      D) The capacity
58. Chemical condition of the battery plates can be identified by  
A) High Discharge test                              B) Cadmium test  
C) Life test    D) Sulphation test
59. The cut out relay is not essential in alternators because current flow due to fall in voltage below that of the battery is not allowed by  
A) Commutator                                      B) Third brush  
C) Rectifier    D) Electromagnetic regulator
60. The distance from the gasket seat to the end of the threads of a spark plug, is called  
A) Reach    B) End clearance  
C) Shoulder height                                      D) Plug clearance
61. Engine valves are closed by means of  
A) Rocker arm    B) Tappet  
C) Valve guide    D) Spring
62. In a distributor type fuel pump, the injection timing is controlled by adjusting  
A) Rotor speed    B) Anti-Dribble valve  
C) Cam ring    D) Plunger stroke



63. The purpose of a governor in an engine is to
- A) Limit speed
  - B) Limit the power
  - C) Limit the fuel economy
  - D) Limit the fuel cutoff
64. Pick out the Engine indicator which does not have any inertia effect.
- A) Electrical type
  - B) Optical type
  - C) Mechanical type
  - D) Hydraulic type
65. The vibration damper on a crank shaft of an engine, reduces the
- A) Longitudinal vibrations
  - B) Sequential vibrations
  - C) Transverse vibrations
  - D) Torsional vibrations
66. The angle through which the wheel turns to sustain the side forces, is called
- A) Slip angle
  - B) Thrust angle
  - C) Steering axis inclination
  - D) Set back angle
67. The ratio of tyre section height to the tyre section width is called
- A) Aspect ratio
  - B) Ply rating ratio
  - C) Offset ratio
  - D) Shoulder ratio
68. The decrease in the effectiveness of brakes with prolonged application is called
- A) Skidding
  - B) Bleeding
  - C) Fading
  - D) Slipping
69. In a car, the pillar onto which the front door latches and the rear door is hinged is called
- A) B pillar
  - B) C pillar
  - C) A pillar
  - D) D pillar



70. The suspension link connecting the vehicle body at one end and the live axle beam at the other end is called
- A) Torsion bar
  - B) Wishbone link
  - C) Trailing arm
  - D) Panhard rod
71. A heavy goods vehicle consisting of a tractor and a semi-trailer is called
- A) Station wagon
  - B) Articulated vehicle
  - C) Coupe with coach
  - D) Van truck
72. If the engine is mounted completely inside the drivers cabin, that type chassis is called
- A) Conventional control type
  - B) Fully inside type
  - C) Engine forward type
  - D) Full forward control type
73. Defects in vehicle frame can be identified by checking with
- A) Laser beam
  - B) Level rod
  - C) Plumb line
  - D) Bevel protractor
74. Clutch drag is a trouble experienced due to
- A) Excessive free pedal play
  - B) Weak clutch springs
  - C) Worn-out clutch facings
  - D) Worn-out clutch splines
75. The oil used for gear box lubrication is
- A) SAE 120
  - B) SAE 90
  - C) SAE 180
  - D) SAE 160
76. Rzeppa joint is an example of
- A) Hooke's joint
  - B) Constant velocity joint
  - C) Variable velocity joint
  - D) Slip joint



77. Final drive mechanism of a vehicle consist of
- A) Differential unit
  - B) Sungear and axle shafts
  - C) Axle shaft and hub
  - D) Crownwheel and pinion
78. In hotchkiss drive rear axle mechanism, the torque reaction is taken up by
- A) Universal joints
  - B) Shackle
  - C) Springs
  - D) Axle casing
79. Torsion bar in suspension system takes only
- A) Longitudinal stress
  - B) Lateral stress
  - C) Driving thrust
  - D) Shear stress
80. Trailing link suspension is an example of
- A) Live axle suspension
  - B) Hydrostatic suspension
  - C) Independent suspension
  - D) De Dion suspension
81. The positive castor in the wheels results in a natural tendency to
- A) toe-in
  - B) toe-out
  - C) roll-in
  - D) decrease the effort to turn the steering wheel
82. The ratio between side force sustained by a wheel and slip angle is called
- A) Camber force
  - B) Self righting torque
  - C) Pneumatic trail
  - D) Cornering power
83. Wheel tramp is a trouble caused by
- A) Wheel bearing tight
  - B) Incorrect kingpin inclination
  - C) Incorrect castor
  - D) Incorrect tie-in
84. In a tyre, the term "ply rating" indicates
- A) Aspect ratio
  - B) Number of plies
  - C) Thread numbering
  - D) Rated strength



85. The tyre sipes helps to  
A) Increase traction  
B) Increase tyre life  
C) Increase cornering effort  
D) Increase speed
86. Antilock Brake System works on the principle of  
A) Channeling of fluids  
B) Frictional stability  
C) Weight transferring  
D) Pressure modulation
87. The shape of reflector used in head lamp of an automobile is  
A) Round  
B) Parabolic  
C) Spherical  
D) Hyperbolic
88. The instrument used to indicate the engine RPM at any instant is called  
A) Odometer  
B) Speedometer  
C) Tachometer  
D) Oscilloscope
89. In an air brake system, the valve meant to control the intensity of braking is called  
A) Unloader valve  
B) Brake valve  
C) Slack valve  
D) Metering valve
90. An epicyclic gear train is used in  
A) Over drive  
B) torque convertor  
C) CVT  
D) Freewheel unit
91. The device used to reduce the exhaust noise is known as  
A) Exhaust pipe  
B) Exhaust manifold  
C) Tail pipe  
D) Muffler
92. As carbon accumulates in a cylinder it causes an increase in  
A) Clearance volume  
B) Compression ratio  
C) Piston displacement  
D) Volumetric efficiency
93. Radiator tubes are generally made of  
A) Steel  
B) Aluminium  
C) Cast iron  
D) Brass



94. Ignition coil is used to
- A) Step up voltage
  - B) Step up current
  - C) Step up spark
  - D) Step up power
95. In a diesel engine fuel injection pump, the effective pressure stroke of plungers are regulated by means of a
- A) Needle valve
  - B) Control rack
  - C) Cam shaft
  - D) Rotor
96. A hot spark plug has a
- A) Long heat path
  - B) Short heat path
  - C) Short insulator nose
  - D) Bigger thread diameter
97. The size of the engine intake valve is
- A) Smaller than the exhaust valve
  - B) Same as that of exhaust valve
  - C) Larger than the exhaust valve
  - D) Depends on the temperature of ambient air
98. A smoky blue exhaust is due to
- A) Incomplete combustion
  - B) Rich mixture
  - C) Incorrect valve adjustment
  - D) Burning of oil in combustion chamber
99. Speedometer drive is usually taken from
- A) Gear box
  - B) Flywheel
  - C) Axle shaft
  - D) Fan belt
100. The knocking in S.I. engines can be prevented, if the end mixture is having
- A) High density
  - B) Low density
  - C) High temperature
  - D) Low pressure



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Space for Rough Work



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