

Q.9 If the width of a standard engineering drawing sheet is 841 mm, then its length would be _____ mm.

- Ans
- 1. 1000
 - 2. 1216
 - 3. 1189
 - 4. 1250

RRB ALP, Technician CBT 2 PART B 2018 Questions

Heat Engine

Exam dt 23.01.19
2nd Shift

Question ID : 96234010348
Status : Answered
Chosen Option : 3

Q.9 Given below are some letters, that each of these letters has a corresponding number. Select the combination of numbers from the options so that the jumbled letters arranged accordingly will form a meaningful English word.

HTRUOA
1 2 3 4 5 6

- Ans
- 1. 6,4,2,1,5,3
 - 2. 1,6,2,4,5,3
 - 3. 2,1,5,3,4,6
 - 4. 3,4,5,2,1,6

Question ID : 96234010411
Status : Answered
Chosen Option : 1

Q.1 90 এর 50% এর 80% কত?

- Ans
- 1. 30
 - 2. 36
 - 3. 32
 - 4. 34

Question ID : 96234010395
Status : Answered
Chosen Option : 2

Section : Heat Engine

Q.1 Clearance between mating parts is measured by - Choose the correct option

- Ans
- 1. Dial gauge
 - 2. Caliper gauge
 - 3. "Go" gauge
 - 4. Feeler gauge

Question ID : 96234010426
Status : Not Answered
Chosen Option : --

Q.2 The diesel engine usually emits excessive smoke during – Choose the correct option.

- Ans 1. Accelerating
 2. Starting
 3. Decelerating
 4. Idling

Question ID : 96234010465
Status : Answered
Chosen Option : 4

Q.3 The purpose of thermostat is to keep the engine - Choose the correct answer.

- Ans 1. Cool
 2. Hot
 3. At desired temperature
 4. Warm

Question ID : 96234010451
Status : Not Answered
Chosen Option : --

Q.4 পিস্টনগুলি তৈরী করতে কি উপাদান ব্যবহৃত হয়?

- Ans 1. পিতল
 2. গ্যালভানাইজড / রাংঝালিত তামা
 3. অ্যালুমিনিয়াম সংকর
 4. ইস্পাত

Question ID : 96234010498
Status : Marked For Review
Chosen Option : 3

Q.5 Air fuel mixture in a petrol engine is burnt in - Choose the correct answer.

- Ans 1. Piston
 2. Intake manifold
 3. Cylinder
 4. Exhaust manifold

Question ID : 96234010444
Status : Answered
Chosen Option : 3

Q.6 In a diesel engine feed pump is located on - Choose the correct answer.

- Ans 1. Cylinder head
 2. Fuel tank
 3. F.I.P

4. Fuel filter

Question ID : 96234010455
Status : Not Answered
Chosen Option : --

Q.7 The tool, which is used for laying out diameter is

- Ans 1. Outside micrometer
 2. Divider
 3. Tri square
 4. Scriber

Question ID : 96234010495
Status : Answered
Chosen Option : 2

Q.8 The connecting rod is made up of - Choose the correct answer.

- Ans 1. Mild steel
 2. Aluminium
 3. Cast iron
 4. Alloy steel

Question ID : 96234010448
Status : Not Answered
Chosen Option : --

Q.9 To increase output voltage, battery cells are connected in - Choose the correct answer.

- Ans 1. Series-parallel
 2. Series
 3. Parallel
 4. inclined

Question ID : 96234010436
Status : Answered
Chosen Option : 2

Q.10 The function of alternator in a vehicle is to - Choose the correct answer.

- Ans 1. Charge the battery
 2. Measure the current
 3. Measure the voltage
 4. Discharge the battery

Question ID : 96234010468
Status : Not Answered
Chosen Option : --

Q.1 The air filters used in high speed diesel engines are generally of the type - Choose the correct answer.

- 1
- Ans
- 1. Dry filters
 - 2. Oil bath filters
 - 3. Impingement filters
 - 4. Heaters

Question ID : 96234010461
Status : Not Answered
Chosen Option : --

Q.1 The ignition condenser - Choose the correct option

- 2
- Ans
- 1. Reduces arcing at contacts
 - 2. Reduces secondary spark
 - 3. Increases contact arcing
 - 4. Protects plugs from load

Question ID : 96234010463
Status : Not Answered
Chosen Option : --

Q.1 সাকসান স্ট্রোকের সময় ডীজেল ইঞ্জিনের সিলিন্ডার কি টেনে নেয় ?

- 3
- Ans
- 1. শুধু শুদ্ধ বাতাস
 - 2. CNG গ্যাস
 - 3. বাতাস এবং জ্বালানীর মিশ্রন
 - 4. ডীজেল

Question ID : 96234010497
Status : Answered
Chosen Option : 1

Q.1 Which of the following are not symptoms of poor clutch operation

- 4
- Ans
- 1. Difficulty in gear shifting when pedal press
 - 2. Vibration of engine
 - 3. increase in engine noise when pedal press
 - 4. pedal gets stuck when pressed

Note: For this question, ambiguity is found in question/answer. Candidate will get full marks for this question if any of these options are chosen - 2,3

Question ID : 96234010496
Status : Answered
Chosen Option : 2

Q.1 A cutting tool used to finish and enlarge a hole is known as-Choose the correct answer.

5

- Ans
- 1. Drill
 - 2. Tap
 - 3. reamer
 - 4. Die

Question ID : 96234010433
Status : Answered
Chosen Option : 3

Q.1
6 Water circulation in a thermo-syphon cooling system is caused by-Choose the correct option

- Ans
- 1. A gear driven water pump
 - 2. A belt driven water impeller
 - 3. Conduction currents
 - 4. The change in density of the water

Question ID : 96234010458
Status : Not Answered
Chosen Option : --

Q.1
7 The instrument used to measure cylinder bore diameter is - Choose the correct answer.

- Ans
- 1. Outside micrometer
 - 2. Telescopic gauge
 - 3. Bore dial gauge
 - 4. Vernier caliper

Note: For this question, ambiguity is found in question/answer. Candidate will get full marks for this question if any of these options are chosen - 3,4

Question ID : 96234010476
Status : Not Answered
Chosen Option : --

Q.1
8 Why is free play in clutch needed

- Ans
- 1. to increase speed of engine rpm
 - 2. to improve efficiency of braking
 - 3. to prevent the clutch from heating up
 - 4. to facilitate lubrication by oil

Question ID : 96234010478
Status : Not Answered
Chosen Option : --

Q.1
9 Wire gauge is a measurement of a wire's - Choose the correct answer.

- Ans
- 1. Diameter

- 2. brittleness
- 3. Hardness
- 4. Tensile strength

Question ID : 96234010434
Status : Answered
Chosen Option : 1

Q.2
0 The stroke of an engine is - Choose the correct answer.

- Ans
- 1. Inside diameter of the cylinder
 - 2. Volume of the cylinder
 - 3. Distance between t.d.c and b.d.c
 - 4. Length of the connecting rod

Question ID : 96234010443
Status : Answered
Chosen Option : 3

Q.2
1 The angle of a drill bit is _____

- Ans
- 1. 119°
 - 2. 118°
 - 3. 115°
 - 4. 59°

Question ID : 96234010486
Status : Answered
Chosen Option : 2

Q.2
2 The study of pneumatics deals with systems operated with - Choose the correct answer.

- Ans
- 1. Water
 - 2. Solid material
 - 3. Oil
 - 4. Air

Question ID : 96234010442
Status : Not Answered
Chosen Option : --

Q.2
3 A cutting tool used to cut outside threads is called - Choose the correct answer.

- Ans
- 1. Drill
 - 2. Reamer
 - 3. tap
 - 4. Die

Question ID : 96234010432
Status : Answered
Chosen Option : 4

Q.2
4 The electronic ignition system is triggered on and off through _____.

- Ans
- 1. Diode
 - 2. Permanent magnet
 - 3. Trigger
 - 4. Contact breaker

Question ID : 96234010499
Status : Answered
Chosen Option : 4

Q.2
5 Indicated work per cycle is equal to - Choose the correct answer.

- Ans
- 1. Mean effective pressure x stroke volume
 - 2. Mean effective pressure x bore arc
 - 3. Mean effective pressure x stroke length
 - 4. Mean effective pressure x bore diameter

Question ID : 96234010473
Status : Not Answered
Chosen Option : --

Q.2
6 Which one of the following fuel injection systems was originally used in large stationary and marine engines and is now seldom used?

- Ans
- 1. Mechanical injection
 - 2. Air injection
 - 3. Airless injection
 - 4. Solid injection

Question ID : 96234010456
Status : Not Answered
Chosen Option : --

Q.2
7 The vernier caliper is used for measuring-

- Ans
- 1. Thickness
 - 2. Shape
 - 3. Roundness
 - 4. Flatness

Question ID : 96234010483
Status : Answered
Chosen Option : 1

Q.2
8 Scavenging is done to maintain - Choose the correct answer.

- Ans
- 1. Speed
 - 2. Fuel consumption
 - 3. Power output
 - 4. Oil pressure

Question ID : 96234010474
Status : Answered
Chosen Option : 2

Q.2
9 A rivet is specified by the diameter of its-Choose the correct answer.

- Ans
- 1. length
 - 2. Head
 - 3. Tail
 - 4. Shank

Question ID : 96234010427
Status : Answered
Chosen Option : 4

Q.3
0 Which of the following is a part of the combination set?

- Ans
- 1. Square head
 - 2. Socket spanners
 - 3. Protractor head
 - 4. Steel rule

Note: For this question, ambiguity is found in question/answer. Candidate will get full marks for this question if any of these options are chosen - 1,3,4

Question ID : 96234010487
Status : Answered
Chosen Option : 1

Q.3
1 চাপের SI একক হল -

- Ans
- 1. পাস্কাল
 - 2. ডাইন
 - 3. নিউটন
 - 4. জুল

Question ID : 96234010470
Status : Answered
Chosen Option : 1

Q.3
2 A mechanism used to control the speed of an engine is called -Choose the correct answer.

Ans

- 1. Speedometer
- 2. Regulator
- 3. Odometer
- 4. Governor

Question ID : 96234010453
Status : **Not Attempted and Marked For Review**
Chosen Option : --

Q.3
3 The point angle of twist drill for general purposes is - Choose the correct answer.

- Ans
- 1. 90°
 - 2. 60°
 - 3. 118°
 - 4. 135°

Question ID : 96234010430
Status : **Marked For Review**
Chosen Option : 3

Q.3
4 A lubricant oil is needed to run the machine _____

- Ans
- 1. Without noise
 - 2. With increased friction
 - 3. With cleanliness
 - 4. quickly

Question ID : 96234010489
Status : **Answered**
Chosen Option : 1

Q.3
5 Higher efficiency can be achieved of an OTTO cycle by increasing the _____.

- Ans
- 1. stroke length
 - 2. Fuel intake
 - 3. compression ratio
 - 4. Cylinder size

Question ID : 96234010488
Status : **Answered**
Chosen Option : 3

Q.3
6 The purpose of dynamo is – Choose the correct option.

- Ans
- 1. Convert mechanical energy into electrical energy
 - 2. Supply electric power

3. Continually recharge the battery

4. Act as reservoir of electrical energy

Note: For this question, ambiguity is found in question/answer. Candidate will get full marks for this question if any of these options are chosen - 1,3

Question ID : 96234010466

Status : Answered

Chosen Option : 1

Q.3
7 While using the vernier height gauge ,it must be placed on _____ - Identify

Ans 1. Cylinder head

2. Vee block

3. Crank shaft

4. Surface plate

Question ID : 96234010484

Status : Answered

Chosen Option : 4

Q.3
8 To measure the cylinder bore one of these instrument is used. Identify

Ans 1. Micrometer

2. Dial indicator

3. Caliper

4. Screw gauge

Note: For this question, ambiguity is found in question/answer. Candidate will get full marks for this question if any of these options are chosen - 1,3

Question ID : 96234010492

Status : Answered

Chosen Option : 1

Q.3
9 The operation of the governor can only be effective if the system is air tight which type of governor is this ?

Ans 1. Hydraulic

2. Mechanical

3. Pneumatic

4. Servo

Question ID : 96234010460

Status : Not Answered

Chosen Option : --

Q.4
0 The drive for the diesel fuel feed pump is taken from the - Choose the correct option

Ans 1. Fuel injection camshaft

2. Timing gears

3. Engine camshaft

4. Crankshaft

Note: For this question, ambiguity is found in question/answer. Candidate will get full marks for this question if any of these options are chosen - 1,3

Question ID : 96234010467
Status : Not Answered
Chosen Option : --

Q.4 The grooves provided on the entire length of the body of a twist drill are called - Choose the correct answer.

1

Ans 1. Margins

2. Lips

3. Flutes

4. webs

Question ID : 96234010431
Status : Answered
Chosen Option : 3

Q.4 Cyaniding and nitriding are two methods of - Choose the correct answer.

2

Ans 1. Case hardening

2. Normalising

3. Tempering

4. Hardening

Question ID : 96234010440
Status : Not Answered
Chosen Option : --

Q.4 The principle of a radiator of an engine cooling system is to - Choose the correct answer.

3

Ans 1. Increase the air speed as it flows over the hot surface

2. Spread out the hot water over a large area

3. Cause a heat flow by convection currents

4. Acts as a reservoir for the water

Question ID : 96234010450
Status : Not Answered
Chosen Option : --

Q.4 In diesel cycle combustion takes place at - Choose the correct answer.

4

Ans 1. Constant temperature and pressure

2. Constant volume

3. Constant pressure

4. Constant temperature

Question ID : 96234010454
Status : Answered
Chosen Option : 3

Q.4
5 Much of the heat in the exhaust gases may be recovered by the use of – Choose the correct option.

- Ans
- 1. Muffler
 - 2. Tail pipe
 - 3. Manifold
 - 4. Heat-exchanger

Question ID : 96234010464
Status : Not Answered
Chosen Option : --

Q.4
6 Identify the the material used for twist drill.

- Ans
- 1. H.S.S
 - 2. Alloy steel
 - 3. Carbide steel
 - 4. Mild steel

Question ID : 96234010485
Status : Not Attempted and Marked For Review
Chosen Option : --

Q.4
7 A maintenance free battery - Choose the correct answer.

- Ans
- 1. Does not contain water
 - 2. Has lead-calcium plate grid
 - 3. Has lead-antimony plate grid
 - 4. Does not contain acid

Question ID : 96234010437
Status : Answered
Chosen Option : 1

Q.4
8 Micrometer can measure upto _____

- Ans
- 1. Least count
 - 2. 0.005 mm
 - 3. Microns size
 - 4. 0.1 mm

Question ID : 96234010490
Status : Answered
Chosen Option : 4

Q.4
9 The rate of doing work is called - Choose the correct answer.

- Ans
- 1. Force
 - 2. Energy
 - 3. Torque
 - 4. Power

Question ID : 96234010471
Status : Answered
Chosen Option : 4

Q.5
0 A depth micrometer can be used to measure _____.

- Ans
- 1. Length of the bore
 - 2. Diameter of bore
 - 3. Thickness of the bore
 - 4. Roundness of the bore

Question ID : 96234010491
Status : Answered
Chosen Option : 1

Q.5
1 What is the other name for Jenny spanners ?

- Ans
- 1. Joint spanner
 - 2. Inside caliper
 - 3. Outside caliper
 - 4. Odd-leg caliper

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Question ID : 96234010479
Status : Answered
Chosen Option : 4

Q.5
2 What is the part of the universal surface gauge which helps to draw a parallel line along a dotted edge known as?

- Ans
- 1. Center punch
 - 2. Scriber
 - 3. Guide pins
 - 4. Fine adjusting screw

Question ID : 96234010481
Status : Not Answered
Chosen Option : --

Q.5
3 What is the principle on which brakes work?

- Ans
- 1. Suction
 - 2. Dragging
 - 3. Friction
 - 4. Vibration

Question ID : 96234010500
Status : Answered
Chosen Option : 3

Q.5
4 Ammeter is used to measure - Choose the correct answer.

- Ans
- 1. Voltage
 - 2. Current
 - 3. Power
 - 4. resistance

Question ID : 96234010435
Status : Answered
Chosen Option : 2

Q.5
5 Why is air cleaner filled with oil?

- Ans
- 1. To pressurize
 - 2. To prevent dust and dirt from atmosphere
 - 3. To lubricate
 - 4. To accelerate

Question ID : 96234010462
Status : Not Answered
Chosen Option : --

Q.5
6 Belt slackness is due to _____ - Choose the correct answer.

- Ans
- 1. Worn shaft
 - 2. Worn sprocket
 - 3. Worn chain
 - 4. Worn gear

Question ID : 96234010475
Status : Not Answered
Chosen Option : --

Q.5
7 A governor is a

- Ans
- 1. Speed sensitive device
 - 2. Temperature sensitive device
 - 3. Pressure sensitive device

4. Vacuum sensitive device

Question ID : 96234010459
Status : Answered
Chosen Option : 1

Q.5
8 What is the composition of Gun metal?

- Ans 1. Copper, Tin and zinc
 2. Copper ,Zinc and nickel
 3. Lead and nickel
 4. Lead and zinc

Question ID : 96234010494
Status : Answered
Chosen Option : 1

Q.5
9 The instrument used to measure high temperature in the furnace is-Choose the correct answer.

- Ans 1. Colorimeter
 2. Thermometer
 3. pyrometer
 4. Barometer

Question ID : 96234010441
Status : Answered
Chosen Option : 3

Q.6
0 Identify the instrument used for checking flatness and squareness of a surface?

- Ans 1. Centre punch
 2. Try square
 3. Go Gauge
 4. Vernier height gauge

Question ID : 96234010482
Status : Answered
Chosen Option : 2

Q.6
1 The purpose of the injector provided on a diesel engine is to inject -Choose the correct answer.

- Ans 1. Coolant in the cylinder jacket
 2. Lubricant in the bearings
 3. Fuel in the cylinders
 4. Lubricant in the cylinder

Question ID : 96234010457
Status : Answered

Q.6
2 A noise produced in the cylinder of a diesel engine during combustion, usually when the fuel oil has a low ignition quality is called - Choose the correct answer.

- Ans
- 1. Fuel knock
 - 2. Fuel explosion
 - 3. Fuel burst
 - 4. Fuel thrust

Question ID : 96234010452
Status : Not Answered
Chosen Option : --

Q.6
3 Air lock in fuel line will cause - Choose the correct answer.

- Ans
- 1. Late starting and erratic running
 - 2. Engine idling high
 - 3. Excess delivery from FI pump
 - 4. Injector pressure is too high

Question ID : 96234010477
Status : Not Answered
Chosen Option : --

Q.6
4 The coolant used for reaming aluminum work piece is - Choose the correct option

- Ans
- 1. Air pressure
 - 2. Water
 - 3. Lard oil
 - 4. Kerosene

Question ID : 96234010439
Status : Not Answered
Chosen Option : --

Q.6
5 In starting of diesel engines by electric starting what is used to supply power to the starter motor?

- Ans
- 1. Battery
 - 2. Rectifier
 - 3. Dynamo
 - 4. Generator

Question ID : 96234010469
Status : Answered
Chosen Option : 1

Q.6
6 Piston rings are generally made of-Choose the correct answer.

Ans

- 1. Brass
- 2. Aluminium
- 3. Cast iron
- 4. Copper

Question ID : 96234010447
Status : Answered
Chosen Option : 3

Q.6
7 A hole is drilled between the crankshaft main journal and crank pin for - Choose the correct option

- Ans
- 1. Reducing the crank shaft vibrations
 - 2. Lubricating the connecting rod bearings
 - 3. Reducing crankshaft weight
 - 4. Balancing the crank shaft

Question ID : 96234010449
Status : Not Answered
Chosen Option : --

Q.6
8 When tolerance is given on one side of the basic dimension it is called - Choose the correct answer.

- Ans
- 1. Tolerance system
 - 2. Bilateral tolerance
 - 3. Allowance system
 - 4. Unilateral tolerance

Question ID : 96234010429
Status : Answered
Chosen Option : 4

Q.6
9 Identify the point angle of a Centre punch from the given options.

- Ans
- 1. 60°
 - 2. 30°
 - 3. 90°
 - 4. 120°

Question ID : 96234010480
Status : Not Answered
Chosen Option : --

Q.7
0 The ratio between BHP and IHP is called - Choose the correct answer.

- Ans
- 1. Engine efficiency
 - 2. Mechanical efficiency
 - 3. Thermal efficiency

4. Power efficiency

Question ID : 96234010445
Status : Not Answered
Chosen Option : --

Q.7
1 An air chisel is used to brake or cut metal objects apart. How is it operated?

- Ans
- 1. Frictionally
 - 2. Hydraulically
 - 3. Magnetically
 - 4. Pneumatically

Question ID : 96234010428
Status : Not Answered
Chosen Option : --

Q.7
2 A fuse in an electrical circuit 'blows' as a result of a high - Choose the correct option

- Ans
- 1. Voltage caused by a short circuit
 - 2. Voltage caused by an open circuit
 - 3. Current flow caused by an open circuit
 - 4. Current flow caused by a short circuit

Question ID : 96234010438
Status : Answered
Chosen Option : 1

Q.7
3 In diesel engine the fuel is ignited by - Choose the correct answer.

- Ans
- 1. An injector
 - 2. A spark plug
 - 3. Virtue of temperature of compressed air
 - 4. A glow plug

Question ID : 96234010446
Status : Answered
Chosen Option : 3

Q.7
4 The device, which is used to measure the brake power of an engine is called - Choose the correct answer.

- Ans
- 1. Energy meter
 - 2. Torque wrench
 - 3. Dynamo meter
 - 4. Indicator

Question ID : 96234010472

Status : **Answered**
Chosen Option : **3**

Q.7
5 Vernier depth gauge is used for measuring

- Ans
- 1. Step, depth of blind hole
 - 2. Round dimension
 - 3. Pitch circle diameter
 - 4. Internal dimension

Question ID : **96234010493**
Status : **Answered**
Chosen Option : **1**

Candidate response HTML date - 26th April 2019

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