	TSPSC CBRT AMVI Shift 2 8th Nov 2015
Roll No:	
Participants Name:	
Test Date:	
Test Time:	
Subject:	

1	Petrol	angina	works	on

Ans X 1. Carnot cycle

X 2. Joules cycle

X 3. Diesel cycle

4. Otto cycle

Q.2 Fleet utilization will show efficiency of

Ans

1. Engineering department

X 2. Traffic department

X 3. Security wing

X 4. Administration

Q.3 In order to perform taper turning operation of entire length *l*, with two end diameters d₁ and d₂, the tail stock set over required is

Ans

Q.4 In cutout, the current coil is

Ans 1. Shunt wound and made of thin wire

X 2. Series wound and made of thin wire

X 3. Shunt wound and made of thick wire

X 4. Series wound and made of thick wire

Q.5 Duty Roaster is related to

X 1. Bus frequency

X 2. Bus schedule

X 3. Bus timings

4. Crew Duties

Q.6 Which motor can be used as a self starter?

Ans

X 1. DC compound motor

2. DC series motor

X 3. Any AC motor

X 4. DC shunt motor

Chosen Option: 1

Question ID: 3392

Question ID: 3304

Chosen Option: 4

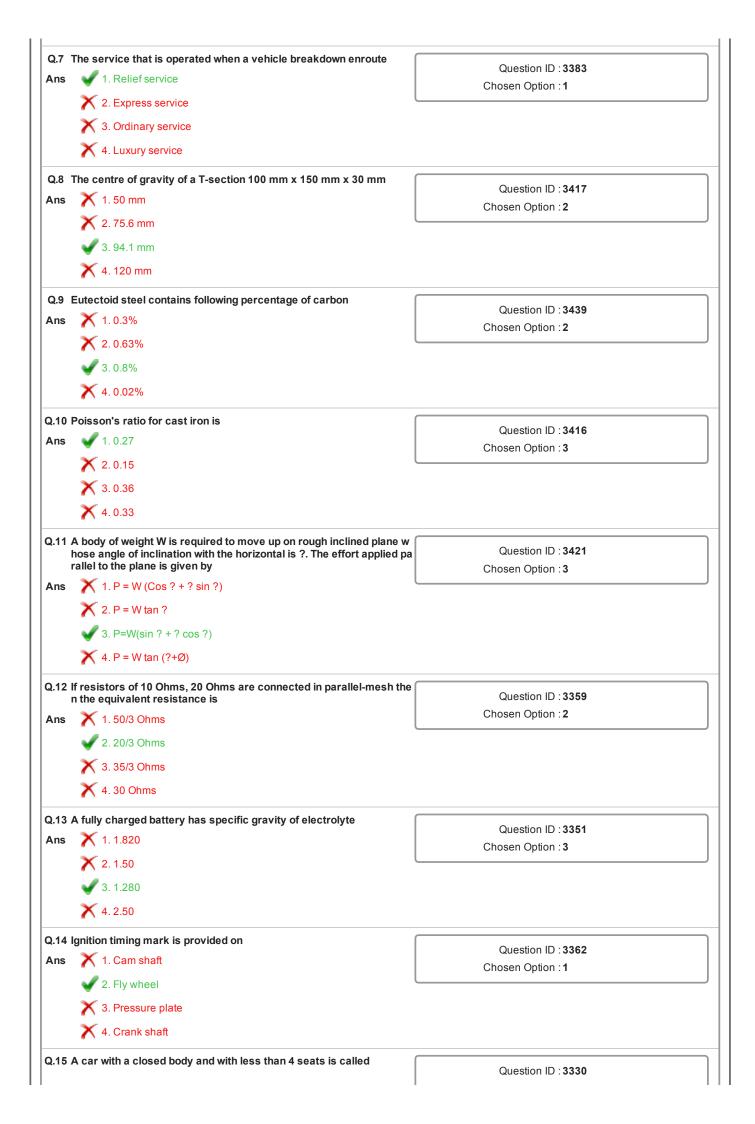
Question ID: 3444 Chosen Option: 3

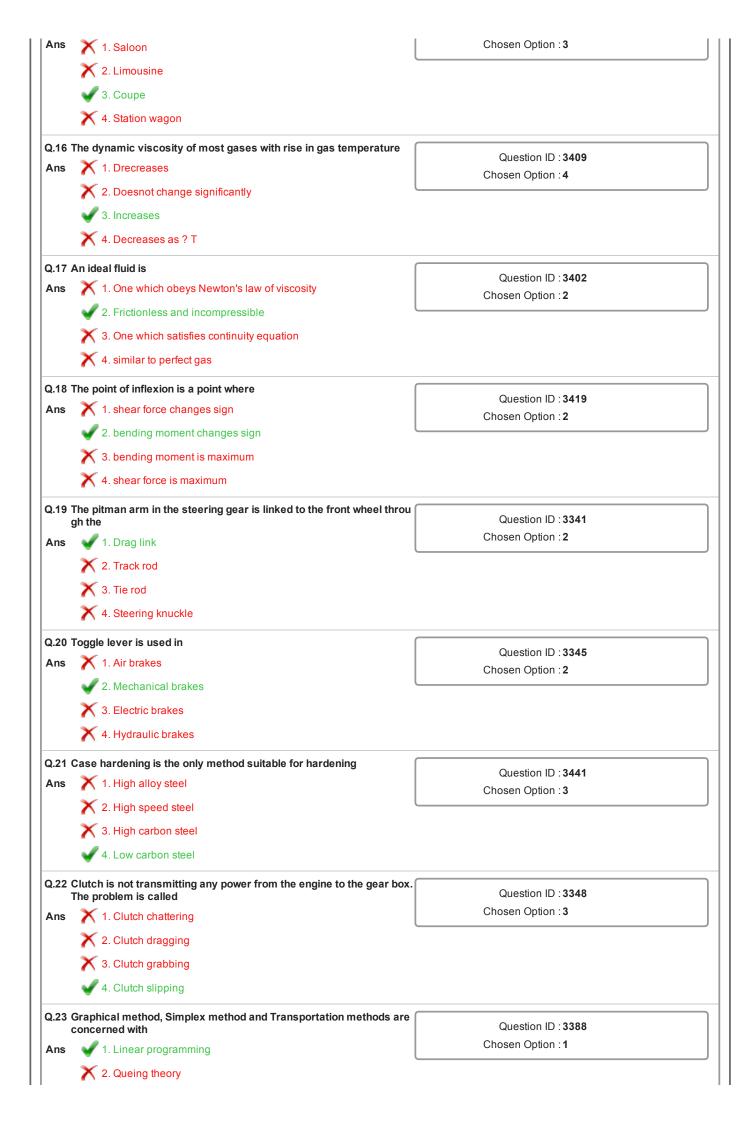
Question ID: 3366

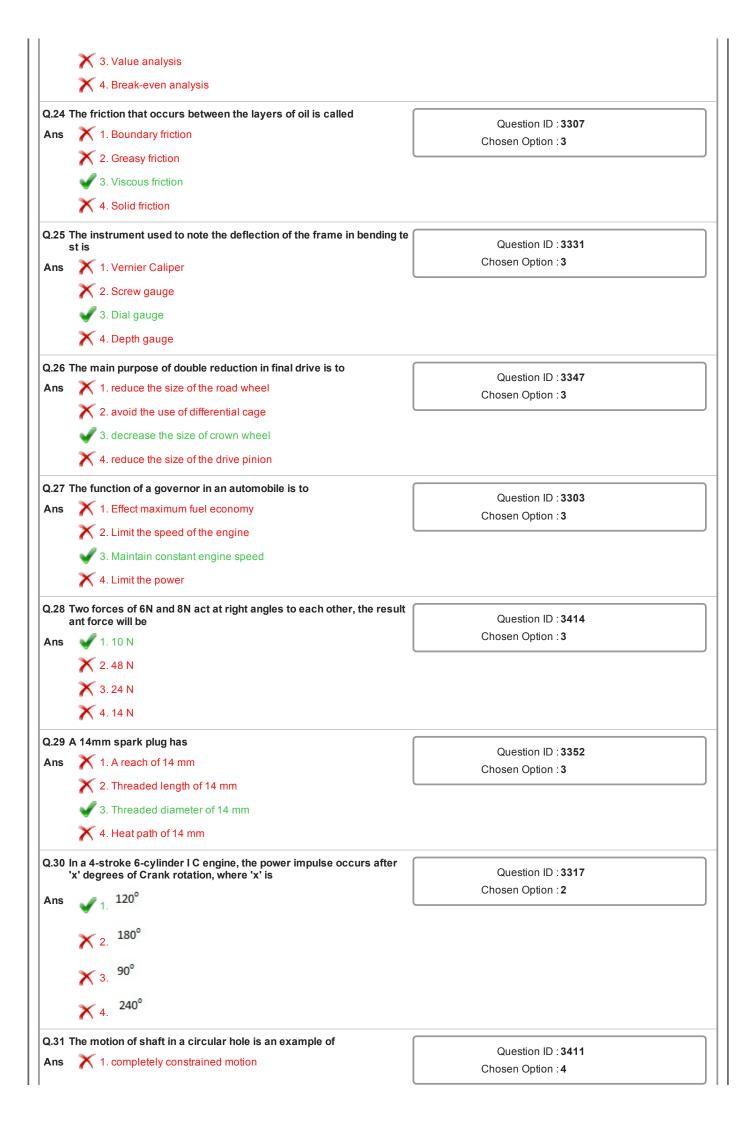
Chosen Option: 2

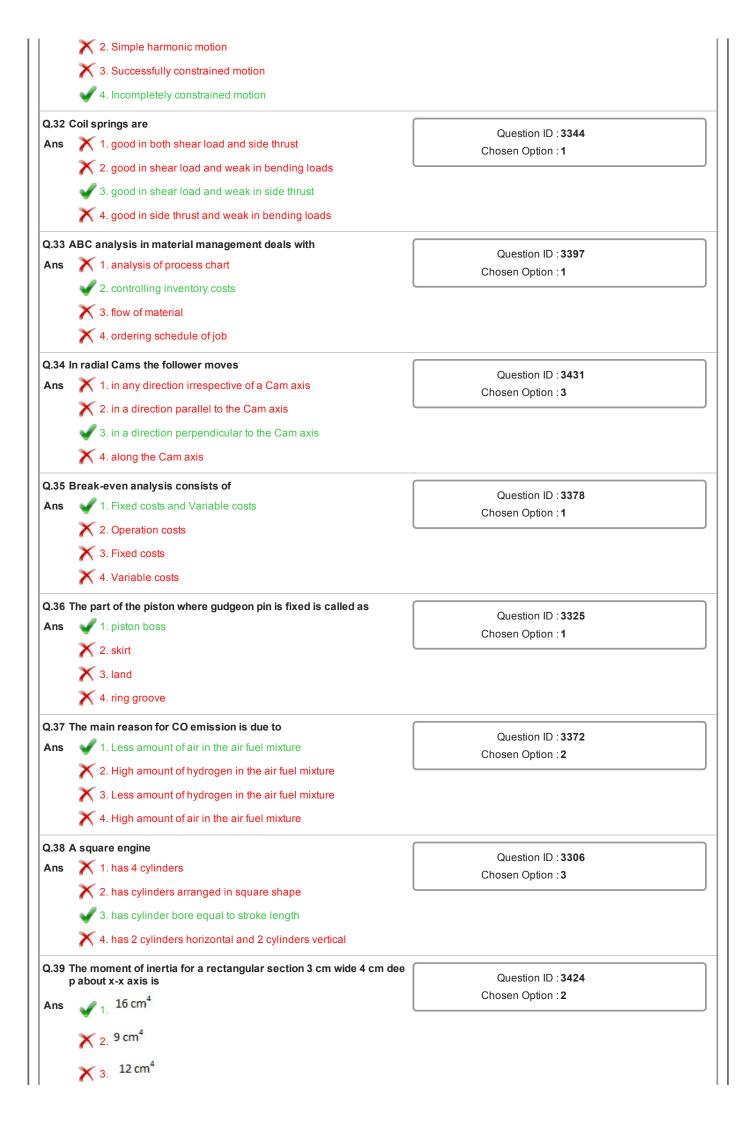
Question ID: 3376 Chosen Option: 2

Question ID: 3364 Chosen Option: 1



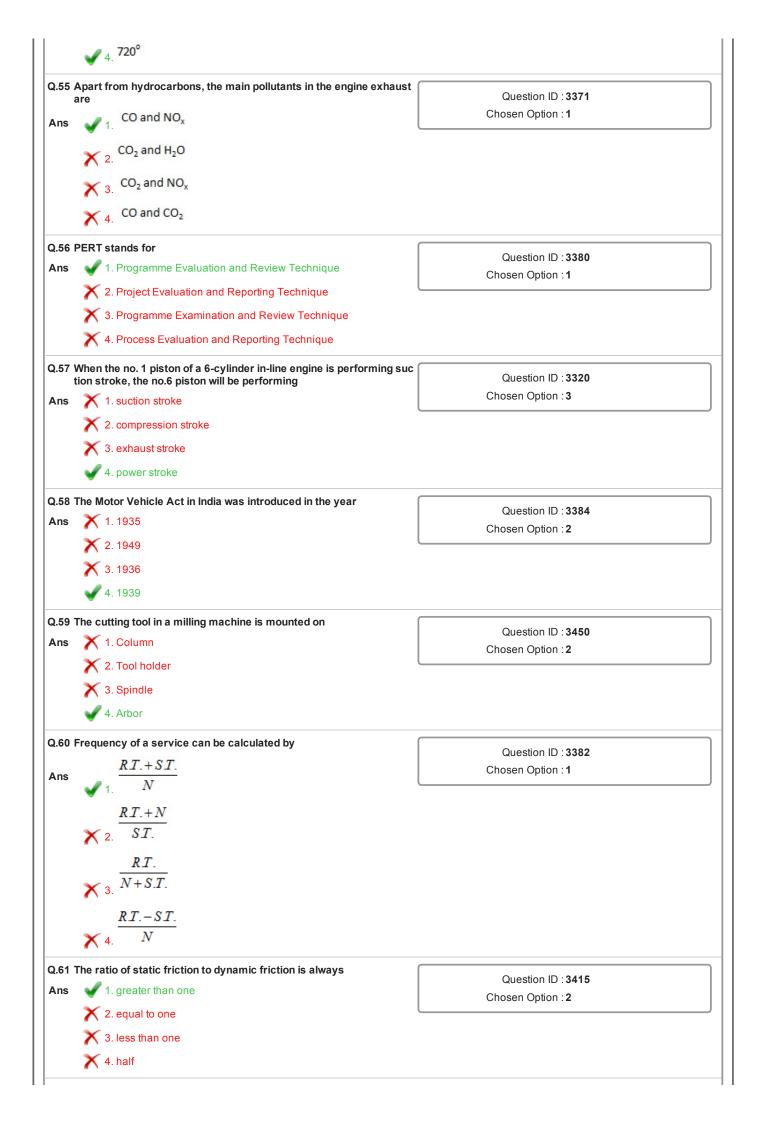


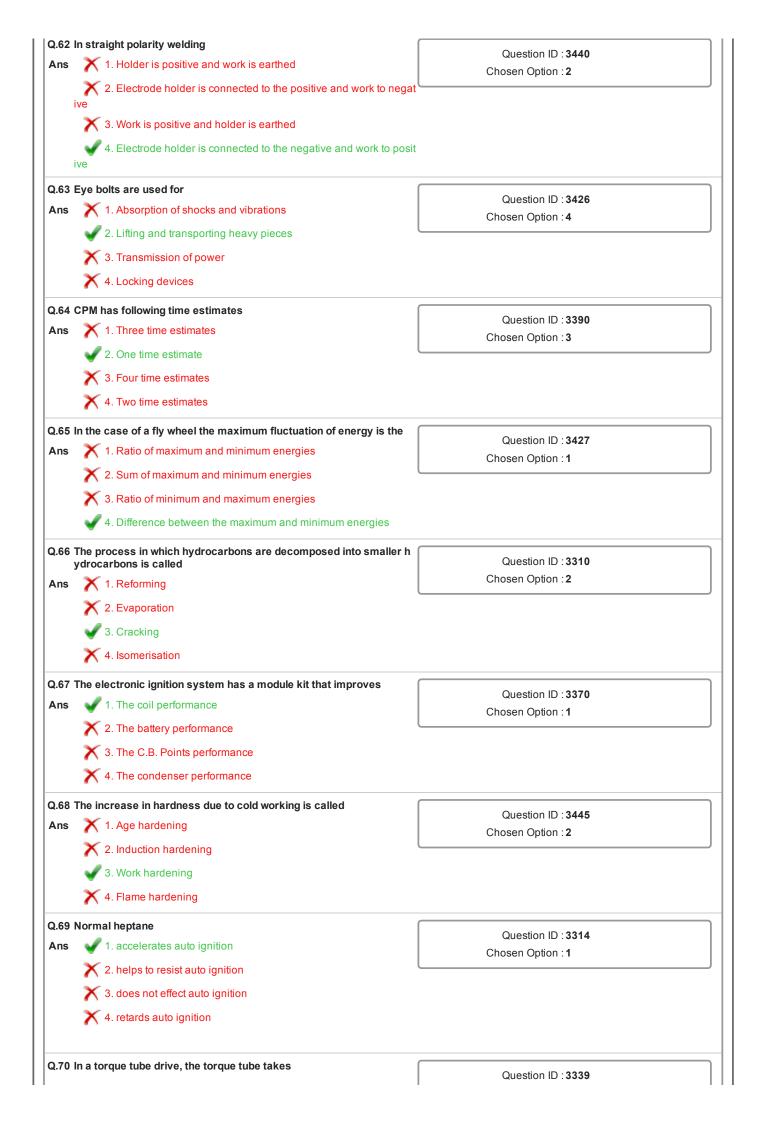


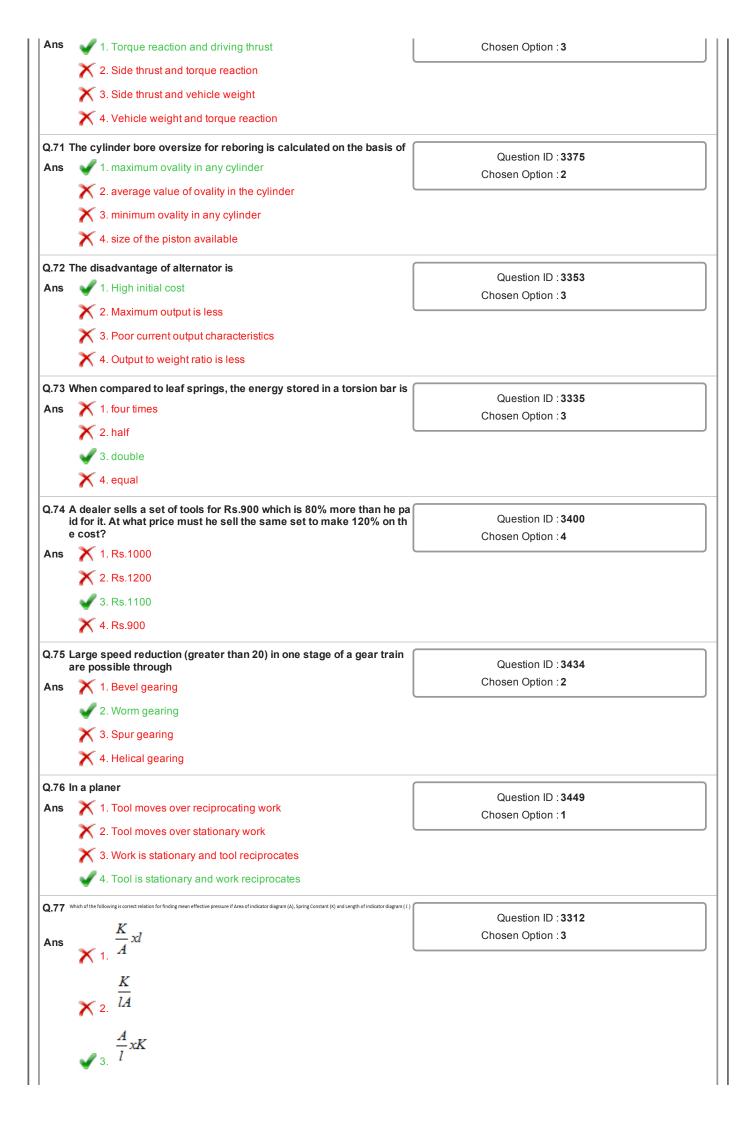


7	4. ^{20 cm⁴}	
	e hoist comprises a platform, which is fixed on the top of ram wor	Question ID : 3365
	1. Hydraulic cylinder	Chosen Option : 2
	X 2. Pneumatic cylinder	
	▼ 3. Master cylinder	
	▼ 4. Oil cylinder	
	o _x are generated when the temperature in combustion - chamber rises above	Question ID: 3322
ns 🤰	1 . 1500° C	Chosen Option : 1
	2. 1600°C	
	₹ 3. 1700° C	
•	4. 1800° C	
	an air-fuel mixture is required for	Question ID : 3309
	1. Acceleration	Chosen Option: 3
	2. Starting	
	3. Idling	
•	4. Cruising	
43 The	e warpage of cylinder head is checked with a	Question ID : 3374
ns 🥻	1. micro meter	Chosen Option : 3
7	2. vernier caliper	<u> </u>
	3. metal rule	
7	🗙 4. dial gauge	
.44 The ing	e bending moment in the centre of a simply supported beam carry uniformly distributed load of W per unit length is	Question ID : 3425
	wl^2	Chosen Option : 3
ns	▼ 1. 4	
	$\frac{wl^2}{2}$	
7	X 2. 2	
7	X 3. Zero	
	wl^2	
•	√ 4. 8	
.45 The	e method of governing used in petrol engines is	Ougation ID : 9944
ns 🥻	1. combined governing	Question ID : 3311 Chosen Option : 2
•	2. quantitative governing	·
7	√ 3. qualitative governing	
7	¥ 4. hit and miss governing	
.46 Me	chanical differential lock is operated by	Question ID : 3407
	·	Question id . 3401
ns 🥻	1. Electrical system	Chosen Option: 2

X 4. Servo system		
Q.47 The fins at the top of a motor cycle engine cylin		
Ans 1. Top is the hottest part	Question ID : 3319 Chosen Option :1	
2. they are in an unexposed position		
• 1		
X 3. hot air rises		
X 4. Extra strength is needed at the top		
Q.48 The outside diameter of a hollow shaft is twice in the ratio of the torque carrying capacity to that on same material and of the same outside diameter.	of a solid shaft of the Question ID : 3433	
Ans	Silvestin Spasin 1	
× 2.1/2		
X 3. 3/4		
X 4. 11/16		
Q.49 The power available at the Crankshaft for usefu	ul work is	
Ans X 1. Total power	Question ID : 3305	
2. Friction power	Chosen Option : 4	
✓ 3. Brake power		
X 4. Indicated power		
4. Indicated power		
Q.50 In a horn circuit, when the contact points are cle s through	osed, the current flow Question ID : 3356	
Ans X 1. low current wire	Chosen Option : 3	
2. low voltage coil		
X 3. high voltage coil		
4. high current wire		
Q.51 A portable drilling machine is specified by		
Ans X 1. Spindle speeds and feeds	Question ID : 3438	
X 2. Size of the table	Chosen Option : 3	
3. Maximum diameter of drill it can hold		
X 4. Maximum spindle travel		
• • •		
Q.52 The ratio of useful power; friction power; exhau g water, air and oil losses for a diesel engine is		
Ans	Chosen Option : 2	
2. 25 : 5 : 35 : 35		
X 3. 25 : 35 : 5 : 35		
X 4. 5 : 25 : 30 : 50		
Q.53 A key connecting a flange coupling to a shaft is	likely to fail in	
Ans 1. Shear	Question ID : 3429	
X 2. Torsion	Chosen Option : 2	
X 3. Bending		
X 4. Tension		
• •		
Q.54 Four strokes of an IC engine need degrees	of Crank rotation Question ID : 3301	
Ans $\times 1.540^{\circ}$	Chosen Option : 2	
× 2. 360°		
× 2. 360° × 3. 180°		

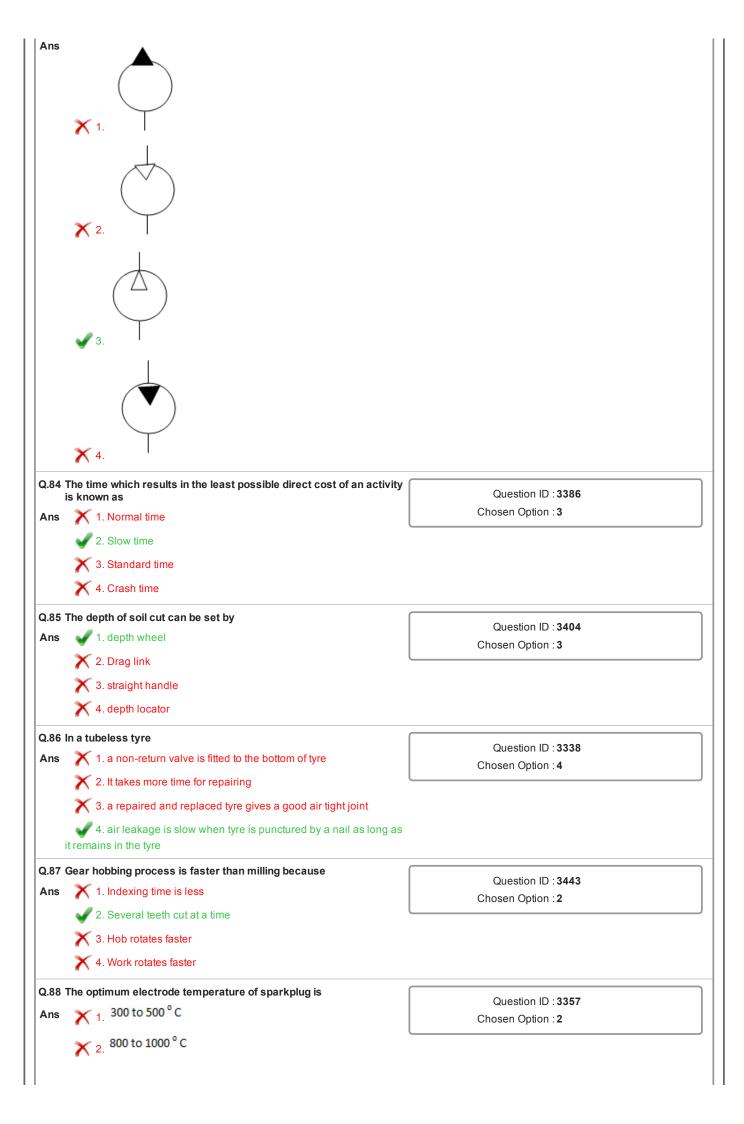




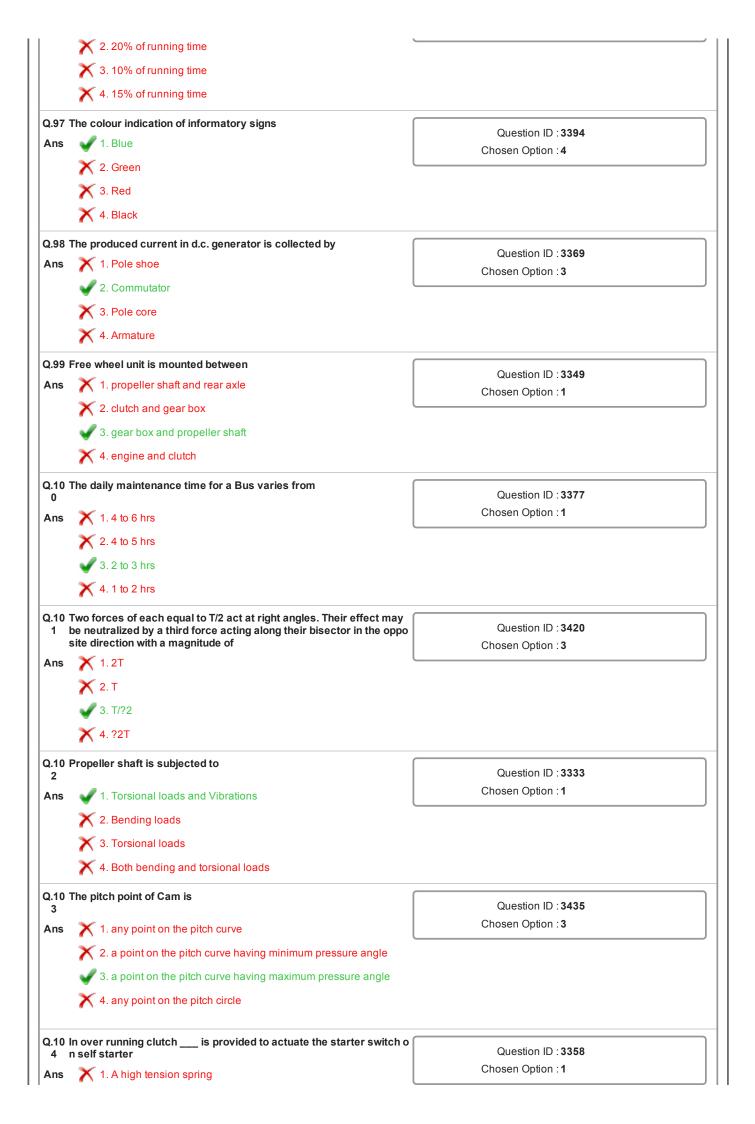


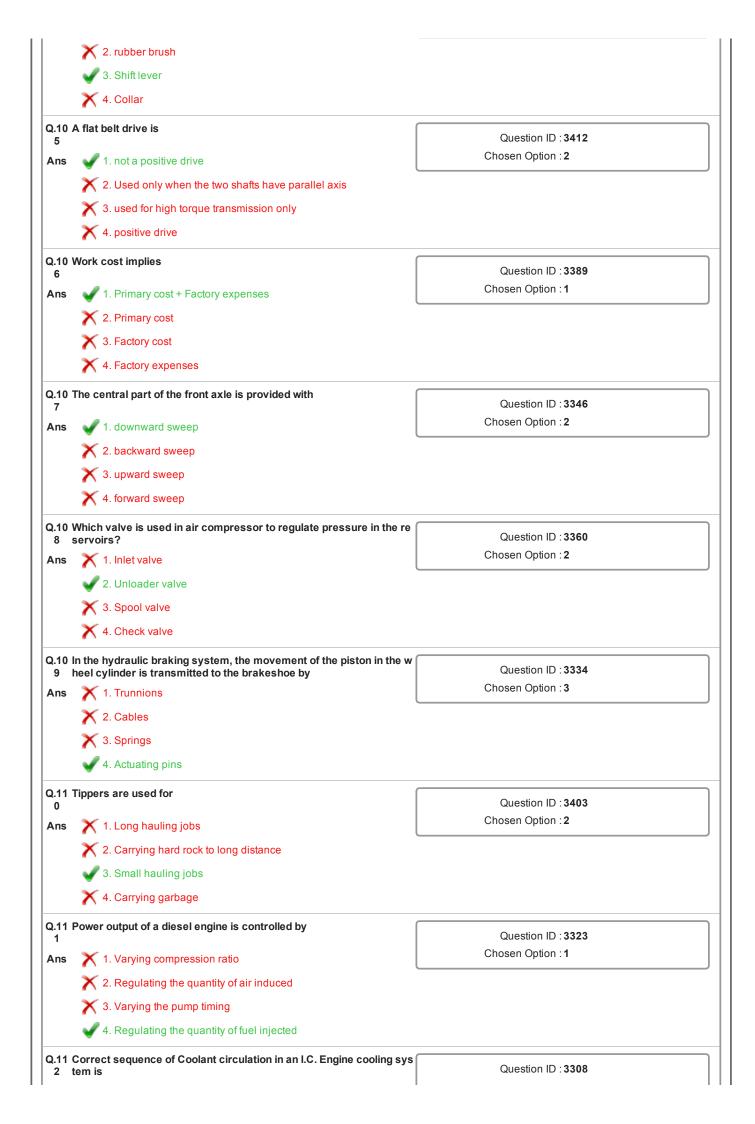
A_{\perp} ,				
\times 4. $\frac{A}{K}x^{d}$				
Q.78 The number of valves provided in the telescopic shock absorber is	Question ID : 3329			
Ans X 1. Four	Chosen Option : 3			
X 2. One				
√ 3. Two				
X 4. Three				
Q.79 Mass density of liquid is given by				
volume	Question ID : 3405			
Ans	Chosen Option : 4			
↑ 1.				
2. specific gravity/mass				
X 3. mass x volume				
mass				
√ 4. volume				
Q.80 Moment of inertia of a rectangular section having width (b) and depth (d) about an axis passing through its C.G and parallel to depth (d) is	Question ID : 3413			
db^3	Chosen Option : 3			
Ans ${24}$				
X 1. ²⁴				
bd^3				
× 2. 36				
↑ 2.				
bd^3				
× 3. 12				
$\frac{db^3}{dt^2}$				
√ 4. 12				
Q.81 Condenser is provided to				
Ans 1. prevent arcing between the C.B. point	Question ID : 3367			
2. allow the arcing between the spark plug electrodes	Chosen Option : 4			
3. allow arcing between the C.B. Point				
4. prevent sudden arcing between spark plug electrodes				
4. prevent sudden arcing between spark plug electrodes				
Q.82 Which of the following are correct pair pistons for a 6-cylinder in-line engine	Question ID : 3318			
Ans X 1. 1-5, 4-6, 2-3	Chosen Option : 2			
× 2.1-4, 2-6, 3-5				
✓ 3. 1-6, 2-5, 3-4				
× 4. 1-2, 3-4, 5-6				
4. 1-2, 3-4, 5-0				
Q.83 Which of the following symbols is used to represent air compressor	0.000			
in a pneumatic circuit	Question ID : 3410			

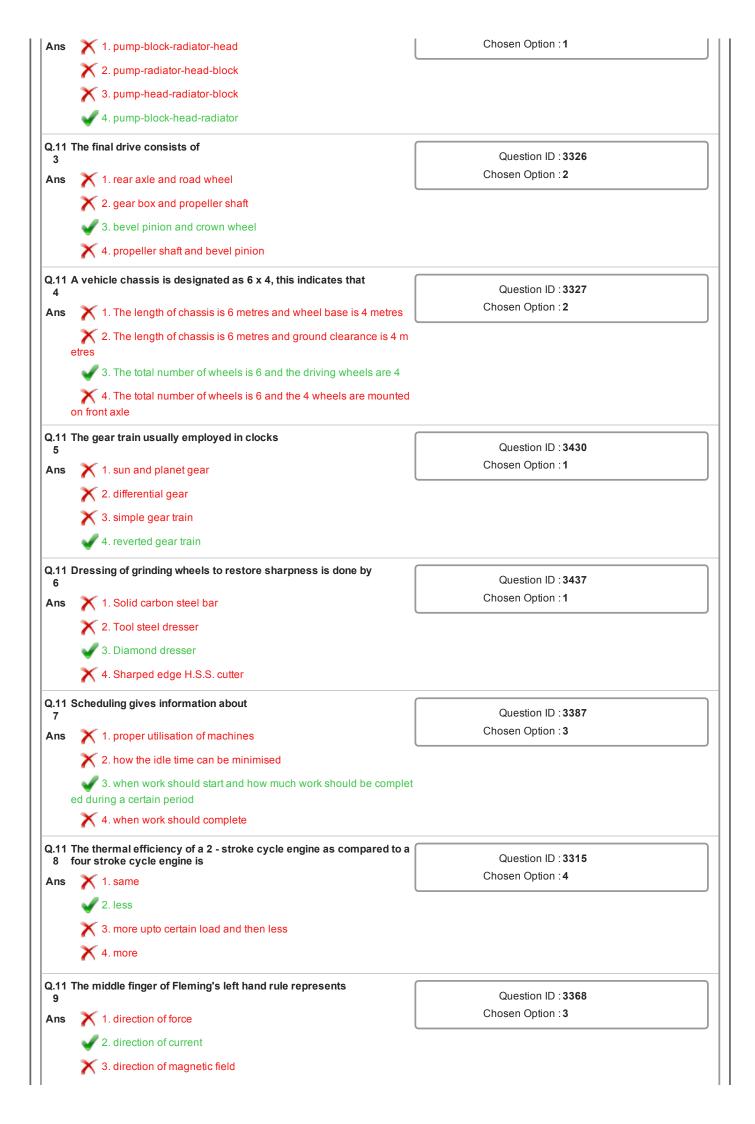
Chosen Option : 1

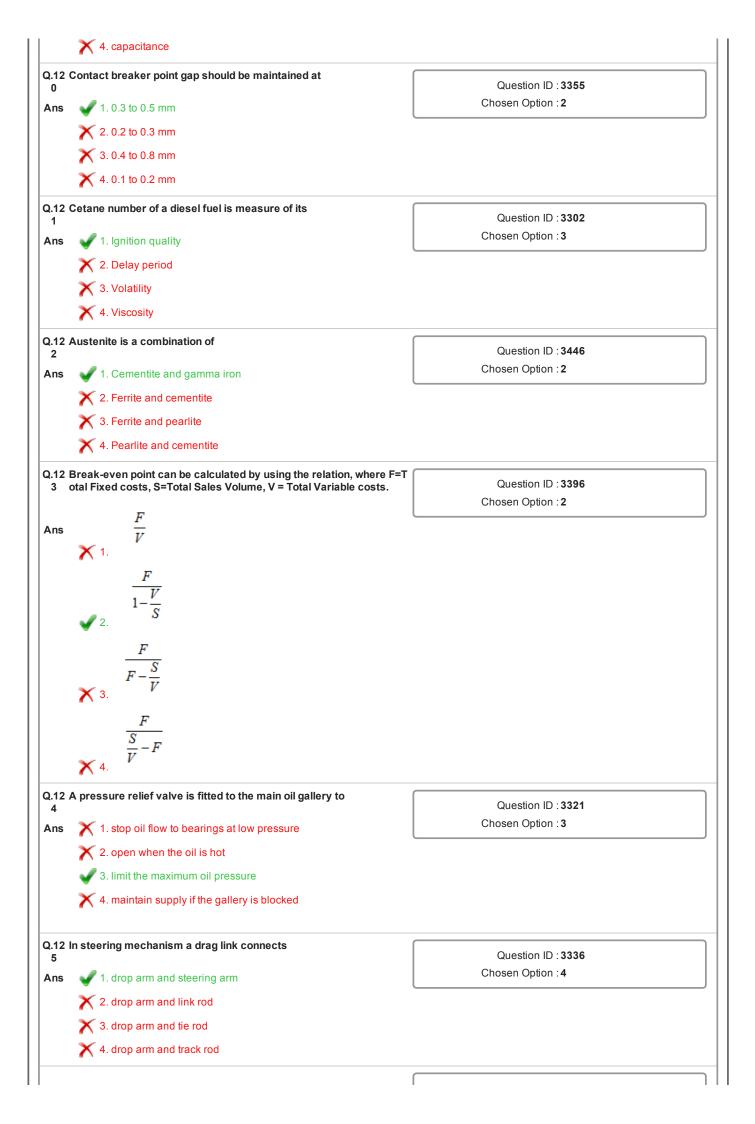


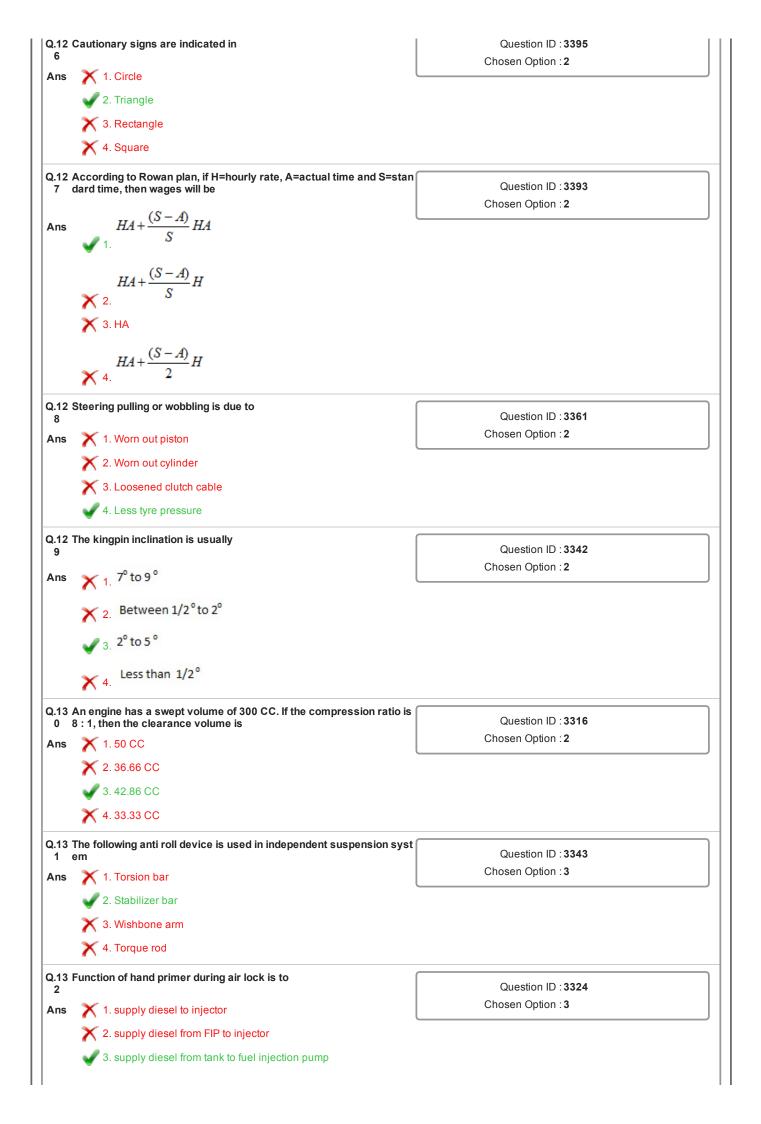
	√ 3. 500 to 600 ° C		
	X 4. 600 to 800 ° C		
0.55			
	The difference between a machine and a structure is 1. The machine serves to modify and transmit forces only where	Question ID : 3422	
Ans	as structures serve to modify and transmit mechanical work.	Chosen Option : 2	
	2. The machine serves to modify and transmit mechanical work w		
	here as structure serve to modify and transmit forces only 3. The relative motion exists between the parts structure where a		
	s it doesnot exist in machine		
	4. Structures are temporary constructions where as machines are permanent construction		
	The chassis where the engine is mounted completely inside the driv		
	er's cabin	Question ID : 3337 Chosen Option : 1	
Ans	1. Integral type chassis	Chosen Option . I	
	2. Conventional chassis		
	3. Semi-forward chassis		
	4. Fully forward chassis		
	Braking efficiency is generally kept at	Question ID : 3328	
Ans	1.50 to 80%	Chosen Option : 1	
	× 2. 100%		
	× 3.90 to 100%		
	× 4. 30 to 50%		
0.92	Annealing of white cast iron results in the production of		
Ans	1. Malleable cast iron	Question ID : 3436	
	X 2. Gray cast iron	Chosen Option : 3	
	X 3. Spheroidal cast iron		
	× 4. Nodular cast iron		
0 93	The purpose of belt pulley is to		
Ans	1. To control differential unit	Question ID : 3408	
	2. supply hydraulic fluid to steering	Chosen Option : 3	
	3. run the water pumps and threshers		
	X 4. run the plough		
004	• •		
Ans	The maximum number of spells of duty for Crew in a day is 1.2	Question ID : 3391	
	× 2.5	Chosen Option : 1	
	× 3.4		
	X 4.3		
0.05	• •		
	Soot formation is due to the lack of in combustion chamber during fuel burning	Question ID : 3373	
Ans	X 1. Sulphur	Chosen Option : 1	
	X 2. Nitrogen		
	X 3. Hydrogen		
	√ 4. Oxygen		
Q.96 The stand time at both terminals is given as			
Ans	1.5% of running time	Question ID : 3381 Chosen Option : 2	

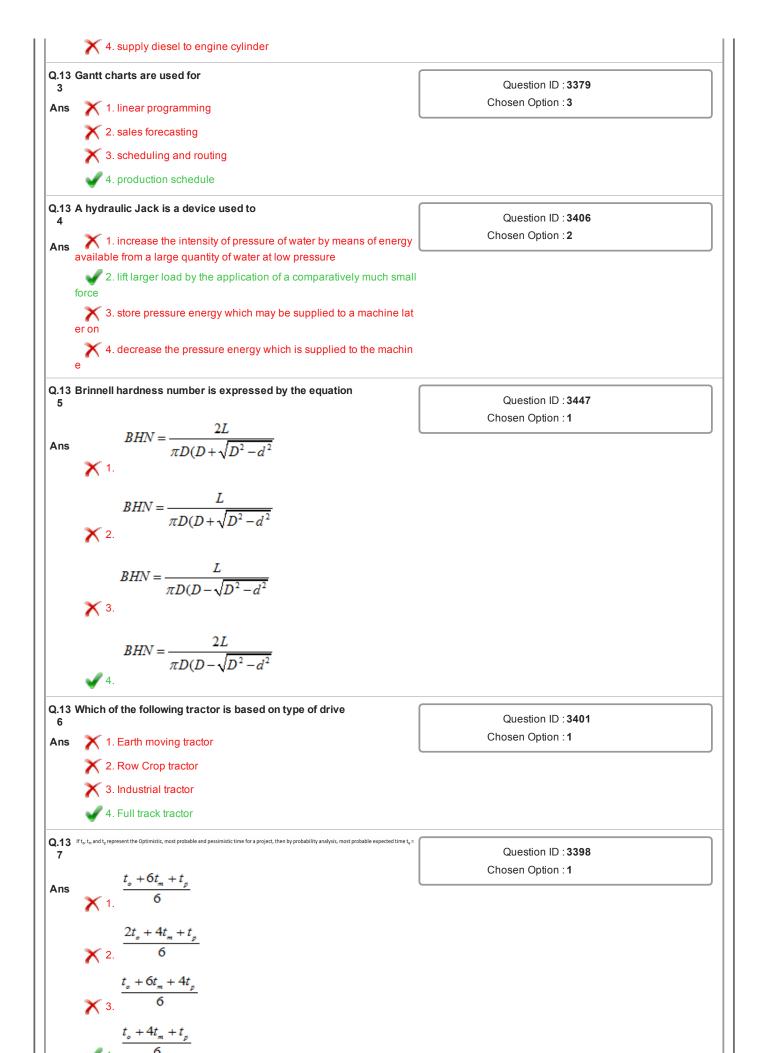


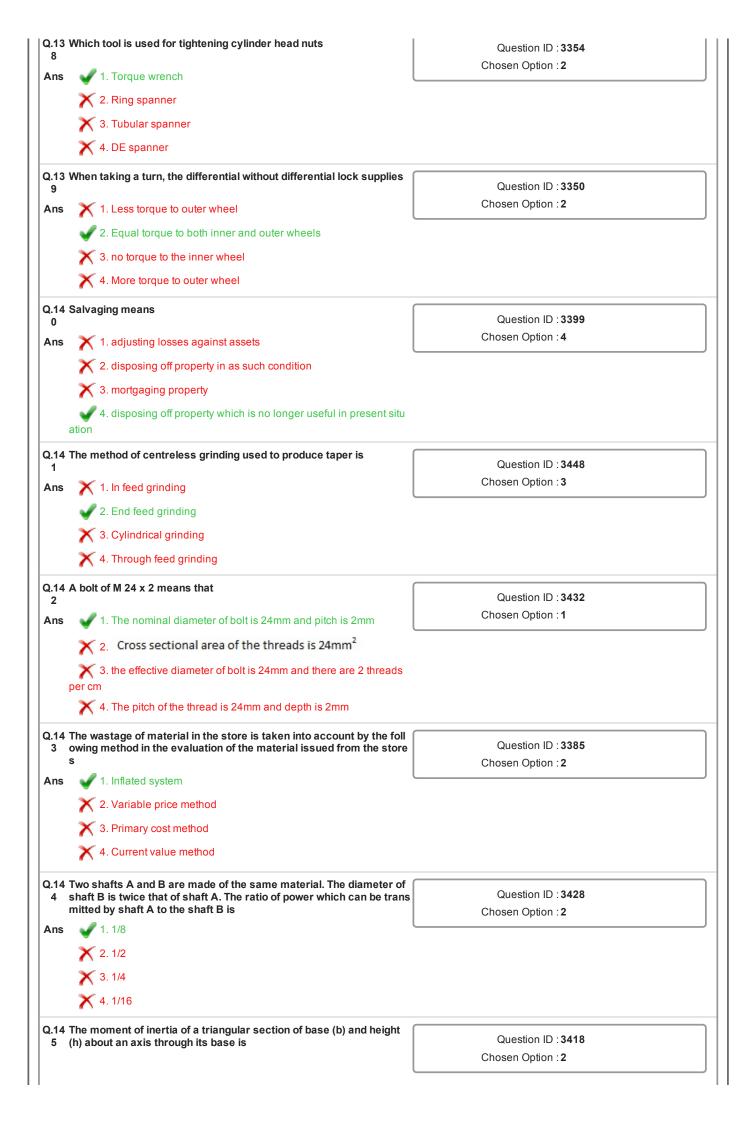












Ans bh^3	
× 1. 36	
bh^3	
√ 2. 12	
1.13	
\times 3. $\frac{bh^3}{8}$	
X 3.	
$\frac{bh^3}{4}$	
4	
X 4. 4	
Q.14 Hardenability of steel	Question ID : 3442
Ans 1. is the ability of steel to resist abrasion, wear and penetration	Chosen Option : 2
2. is the property which determines the depth of the hardened zo	
ne induced by quenching	
X 3. is its ability to withstand shocks	
4. is achieved throughout its full depth, when the actual cooling r	
ate equals the critical cooling rate	
Q.14 When a bar lengthened or shortened by a load, it simultenously beco	Question ID : 3423
7 mes narrower or wider. The ratio of this strain in the direction of widt h to the simultenous strain in the direction of the length is called	Chosen Option : 1
Ans X 1. Young's modulus	
🔀 2. Hooke's ratio	
🗙 3. Euler's ratio	
√ 4. Poisson's ratio	
Q.14 Engine overheating may result due to	
8	Question ID : 3363
Ans 1. Radiator pressure cap stuck closed	Chosen Option : 1
2. Broken fan belt	
X 3. Thermostat stuck open	
X 4. Excess coolant in the system	
Q.14 The most widely used type of stub axle used in heavy vehicles	
9	Question ID : 3332 Chosen Option : 2
Ans X 1. Elliot type	Chosen Option . 2
2. Reversed Lamoine type	
3. Reversed elliot type	
X 4. Lamoine type	
Q.15 The rear axle half shaft is connected to	Question ID : 3340
Ans 1. Sun gear	Chosen Option : 4
X 2. Crown wheel	
X 3. Drive pinion	
4. Differential cage	
• •	