Seat No.

Time	: 1½	Hours	6	AUTOMOBILE (NSQF)		
				Subject Code		
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Total No. of Questions : 3			estions	: 3 (Printed Pages : 6) Maximum Marks : 30		
INSTI	RUCI	TIONS	':(i)	Answer each question on a fresh page.		
				Write the question number and sub-question number clearly.		
			(iii)	All questions are compulsory.		
			(iv)	Figures to the right indicate full marks.		
1.	(A) Choose and write the correct alternatives from the options					
		3				
		e is a lubricant.				
			(a)	solid		
			(<i>b</i>)	semi solid		
			(c)	liquid		
			(d)	emulsion		
		(2)	Drill l	bits are tools used to create cylindrical		
		holes.				
			(a)	cutting		
			(<i>b</i>)	milling		
			(c)	rolling		
			(d)	taping		

(3)	In v	vashing of a vehicle, plastic brush is used for							
	cleaning								
	(a)	windows							
	(b)	roof							
	(c)	tyre sidewalls							
	(d)	windshield							
(4)	The tool which is used for chipping of metals is								
	(a)	Hand Hacksaw							
	(b)	Snip							
	(c)	Bench vice							
	(d)	Chisel							
(5)	Wheel balancing helps in minimizing vibration								
	(a)	tyre							
	(b)	gear box							
	(c)	shock absorber							
	(d)	brake drum							
(6)	The special tool used to remove oil filter is called								
	(a)	tappet wrench							
	(<i>b</i>)	ring spanner							
	(c)	oil filter wrench							
	(d)	torque wrench							

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	(B)	Answer the following questions in <i>one</i> sentence:			
		(1)	Give	one point of difference between live and dead axle.	
		(2)	What	is the purpose of hydrometer in automobile?	
		(3)	What	connects stub axle and front axle to rotate the f	front
			whee	ls ?	
	(C)	Answ	er the	following questions in two sentences:	4
		(1)	Defin	e the following terms related to engine: (any two)	
			(a)	IHP	
			(<i>b</i>)	ВНР	
			(c)	FHP	
			(d)	Engine torque	
		(2)	"A T	echnician is about to replace the engine oil of	car"
			Write	e any two materials and tools respectively he will req	quire
			to re	place oil and oil filter.	
2.	(A)	Choo	se and	d write the correct alternatives from the options g	iven
		below:			
		(1)	Safet	y device for battery in automobile is	
			(a)	alternator	
			(b)	cut out unit	
			(c)	ignition coil	
			(d)	distributor	
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(2)	Tendency of a vehicle to dive in its front on application of brake				
	is called				
	(a)	pitching			
	(<i>b</i>)	yawing			
	(c)	rolling			
	(d)	dipping			
(3)	Coola	t is also called as			
	(a)	antidote			
	(<i>b</i>)	antiseptic			
	(c)	antifreeze			
	(d)	antigen			
(4)	The	volume of cylinder above the piston when it is at TDC is			
	called				
	(a)	piston displacement			
	(b)	engine capacity			
	(c)	clearance volume			
	(d)	swept volume			
(5)	Air filter is cleaned by				
	(a)	air blower			
	(b)	oil			
	(c)	chemical			
	(d)	water			

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			(a)	vehicle speed	
			(<i>b</i>)	engine speed	
			(c)	compression charge in the cylinder	
			(<i>d</i>)	velocity of camshaft	
	(B)	Answ	er the	following questions in one sentence:	3
		(1)	Why	dipstick is used ?	
		(2)	What	is the function of ignition coil?	
		(3)	State	any one principle of suspension system in automobile.	
	(C)	Answ	er the	following questions in two sentences:	4
		(1)	Class	ify chassis based on fitting of engine.	
		(2)	Expla	in the following innovations in automobile:	
			(a)	Blind spot detection	
			(<i>b</i>)	Night vision assist	
3.	(A)	Answ	er the	following questions in one sentence:	3
		(1)	Defin	e "Stroke" related to engine.	
		(2)	How	clogged fuel filter will affect engine performance?	
		(3)	Write	two types of wrenches used in automobile workshop.	
	(B)	Answ	swer the following questions in two sentences:		
		(1)	You a	are a sales person at Maruti-Suzuki new car show room	m.
			A cus	stomer has just walked up to you in your showroom. A	As
			per t	he given situation, what are your duties ? (any two)	
		(2)	Give	any four properties of a good lubricant.	

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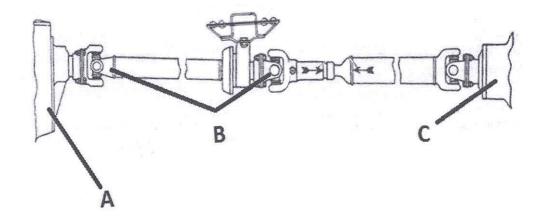
P.T.O.

A Tachometer is used for measuring

(6)

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- (C) Answer the following questions with the help of given below diagram of Propeller shaft:
 - (a) Label (A) (B) (C). (label any two)
 - (b) Write any two requirements of good propeller shaft.



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