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	Nam	e of the Engi	ne which	th ha	ave bore is	equal t	to stro	oke length:			
	(A)	Wankel Eng	gine		(B)	Radial	Engi	ne			
	(C)	Square Engi	ine		(D)	Hybrid	d Eng	ine			
2.	Write	e down corre	ect equa	tion	:						
	(A)	IHP = BHP -	FHP		(B)	FHP=	BHP	+ IHP			
	(C)	BHP=IHP-	+ FHP		(D)	IHP=	BHP-	- FHP			
3.	Whi	ch of the folk	owing (Cycle	is used in	petrol	engir	ne ?			
**	(A)				(B)	Otto (
	(C)	Carnot Cyc			(D)	Brayto	on Cy	cle			
4.	An e		ept vol	ume	of 600 cc. I	f comp	ressio	n ratio is 8.5, dete			ne
	(A)	40 cc	(1	B)	60 cc		(C)	80 cc	(D)	100 cc	
5.	One	bar is equal	to (KPa	a - K	iloPascal)	:			1000	THE CANADA	
	(A)	1 KPa	(B)	10 KPa		(C)	1000 KPa	(D)	100 KPa	
6.	Act	ual power de	livered	at t	he crank s	haft:					
		FHP		(B)	IHP		(C)	ВНР	(D)	None of these	
7.	The	part which	connec	ts pi	ston and c	onnecti	ng ro	d:			
		Crankpin			Pistonpin		(C)	Fly wheel	(D)	Gasket	
8.	The	e exhaust val	ve usua	ılly s	starts open	ing :		en de la companya			
	(A)	at BDC		(B)	at TDC		(C)	before BDC	(D)	before TDC	
9.	Va	lve clearance	is mea	sure	d by the ir	nstrume	ent :				
) Screw gat			Slip gauş		(C)	Vernier caliper	(D)	Feeler gauge	
A						3				IP T	0

10.	Whi	ch of the following	ng is u	sed to avo	id over	cooli	ng in the cooling	g syster	n of the engin	e?
	(A)	Pressure cap			(B)	The	rmostat			
	(C)	Expansion rese	rvoir		(D)	Rad	iator			
11.	In w	hich of the follow	ving I	ubrication	system	lubri	cant oil is mixed	l with f	uel ?	
	(A)	Splash system	(B)	Pressure	system	(C)	Dry sump	(D)	Petroil system	m
12.	Whi	ch is the followin	g nun	nber is used	d to inc	licate	ignition quality	of dies	el fuel ?	
	(A)	Cetane	(B)	Octane		(C)	Random	(D)	None of thes	ie
13.	Whi	ch of the following or cornering?	ng is u	ised in fue	l tank t	to red	uce surging of f	uel on	account of suc	dden
	(A)	Muffler	(B)	Baffle pla	ite	(C)	Drain plug	(D)	Rocker arm	
14.	An e	electrical fuel pun	np ope	erates but o	lelivers	insu	ficient fuel. Thi	is may l	be due to :	
	(A)	Chocked pump	filters		(B)	Wor	n out valves			
	(C)	Damaged diaph	nragm		(D)	All c	of the above			
15.	The	device which use	d to n	naintain sp	eed at	varyi	ng load conditio	n:		
	(A)	Fly wheel	(B)	FIP		(C)	Governor	(D)	Injector	
16.	The	ignition advance	metho	d controls	ignitio	n tim	ing according to	engine	speed :	
	(A)	Vacuum advanc	ce		(B)	Cent	rifugal advance			
	(C)	Electric advance	2		(D)	None	of these			
17.	A Le	ad acid battery is	an au	ıtomobile ι	ised th	e acid	1:			
	(A)	Sulphuric acid			(B)	Hydi	ochloric acid			
	(C)	Nitric acid			(D)	Phos	phoric acid			
18.	A for	ır wheeler norma	lly us	es battery o	of:					
	(A)	10 volt	(B)	12 volt		(C)	20 volt	(D)	1.5 volt	
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19.	The test used to know the chemical condition of positive and negative plate is:										
	(A) Specific gravity test	(B)	Open volt test								
	(C) High discharge test	(D)	Cadmium test								
20.	The clutch does not require clamping s	spring	and release lever :								
	(A) cone clutch	(B)	single plate clutch								
	(C) diaphragm clutch	(D)	multi plate clutch								
21.	Reason for clutch drag or spin is :										
	(A) Excessive free pedal play	(B)	Damaged pressure p	olate							
	(C) Cracked clutch plate	(D)	All of the above								
22.	The clutch is located between the gear	box a									
	(A) Engine (B) Rear axle		(C) Propeller shaft	t (D)	differential						
23.	Which of the following gear box used	doubl	e de clutching process	?							
	(A) Synchromesh gear box	(B)	Sliding mesh								
	(C) Constant mesh	(D)	All of the above								
24.	Increase of torque in a vehicle is obtain	ned by	v :								
	(A) Increasing speed	(B)	Decreasing speed								
	(C) Increasing power	(D)	All of the above								
25.	Speed of the driving gear (A) 1500 3000 rpm. What is gear ratio?	rpm,	speed of the driven	gear (B) mesh with A is						
	(A) 2 (B) 0.5		(C) 1.5	(D)	4500						
26.	The type of gear box used in automat	tic tran	nsmission is:								
	(A) Epicyclic gear box	(B)	Constant mesh gea	r box							
	(C) Sliding mesh	(D)	Synchromesh gear	box							
27.	When the car is taking a turn the out- the inner wheel in the same time, the	er whe	eel have to travel great e used to adjust this is	er distar	nce as compared to						
	(A) Propeller shaft (B) Slip join		(C) Differential	(D)	Transfer case						

28.		rear axle shaft sup ing up the vehicle		ing in whic	ch the	axle sha	aft can be taken	n out o	or replaced withou
	(A)	Semi floating axl	le		(B)	Full fl	oating axle		
	(C)	Three quarter ax	de		(D)	None	of these		
29.	The	suspension mover	nent	in which v	ehicle	moves	perpendicular	the roa	nd is:
	(A)	Bouncing	(B)	Rolling		(C)	Pitching	(D)	None of these
30.	The	independent susp	ensio	n system w	which t	ises onl	y lower wishbo	one :	
	(A)	Wishbone type			(B)	Mac p	herson strut		
	(C)	Vertical guide			(D)	Single	strut		A STATE OF THE STA
31.	Whi	ch of the following	g sus	pension sys	tem u	ses com	pressors ?		
	(A)		(B)	Independ			Vertical guide	(D)	Air suspension
									Someth (PA
32.	Whi	ch of the following	g spri	ing used in	rigid a	axle sus	pension?		4 and (price (4.01)
	(A)	Coil spring	(B)	Leaf sprin	ıg	(C) I	Air spring	(D)	Torsion spring
									tracing our selection
33.	The	tilt of the vehicle v	vheel	ls from the	vertica	al:			
	(A)	Camber			(B)	Castor			
	(C)	Kingpin inclinati	on		(D)	Combi	ned angle		
34.	The	ratio between side	force	sustained	to the	slip ang	gle is :		
	(A)	Cornering power			(B)	Slip ra	tio		
	(C)	Side ratio			(D)	Steerin	g ratio		return of the
35.	The :	ratio of tyre section	n hei	ght to the t	yre sec	ction wi	dth:		
			(B)	Aspect rai			yre ratio	(D)	None of these
36.	The 1	process of filling ai	ir in t	vre is :					
	100		(B)	Deflation		(C) C	Cracking	(D)	None of these
						177 386		TO STATE OF	

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37.	The t	ype of wheel wh	ich ca	nnot be used	with	a tub	eless tyre :		
		Disc wheel		Alloy wheel				(D)	None of these
38.		neart of the hydra				-		(D)	Durlin model
	(A)	Wheel cylinder	(B)	Master cylir	nder	(C)	Adjuster	(D)	Brake pedal
20	TT	process of removi	ing air	from hydrai	ılic s	vstem	is:		
39.		Brake adjustme			(B)		bleeding		
	(A)	Wheel alignmer			(D)		alignment		
	(C)	wheel angimer			(-)	100000000000000000000000000000000000000	0		
40.	Whic	ch of the followin	ig bral	ke cannot sto	p the	vehic	le like a service	brake	?
	(A)	Engine exhaust			(B)	Air b			
	(C)	Bendix hydrom	ax bra	ke	(D)	Disc	brake		
41.	Full	form of ABS whi	ch is t	ised in vehicl	le is :				
	(A)	Absolute Brakin	ng Sys	tem	(B)		nys Better Servic	e	
	(C)	Anti-lock Braki	ng Sys	stem	(D)	None	e of these		
				0 0					
42.		instrument which						IS:	Lactomater
	(A)	Speedometer	(B)	Tachomete	r	(C)	Odometer	. (D)	Lactometer
	1000								
43.		bag used in a car	15:		(B)	stora	nge of oxygen		
	1000	storage of air	.6	COROCE	100		ir brake		
	(C)	for protection of	or pass	senger	(0)	101			
44.	The	tool used to finis	sh a pr	eviously dril	led h	ole is			
44.		Grinder	(B)			(C)		(D)	Tube cutter
	(11)	Oliman							
45.	Wh	ich of the followi	ing is	an external c	ombi	ustion	engine ?		
		Petrol engine	(B)				Steam engine	(D)	Gas engine
	1), f)	· · · · · · · · · · · · · · · · · · ·							
46.	The	process of remo	ving e	xhaust gas fr	rom t	he en	gine cylinder is :		
		Scavenging	(B)			200	Engine slap	(D)	Scuffing

47.	Med	chanical efficienc	y of ar	n engine is:				
	(A)	IHP/BHP	(B)	BHP/IHP	(C)	BHP/FHP	(D)	FHP/BHP
48.	The	sound produced	d due	to the excess clea	arance	between piston	and cy	rlinder during col
	(A)	Knocking	(B)	Piston slap	(C)	Humming	(D)	Piston scuffing
49.	The	distance betwee	n cente	er line of crankpi	in and	main journal axi	s is :	
		Crank throw		(B)		re clearance	1.7.15.1	
	(C)	Eccentricity		(D)	Non	mal clearance		
50.	Whi	ch of the followi	ng val	ve is used in auto	omobil	e engine ?		
	(A)	Poppet valve	(B)	Rotary valve	(C)	Sleeve valve	(D)	None of these
51.	The	ratio of RPM of	cranks	haft to the RPM	of cam	shaft is :		
	(A)	1	(B)	2	(C)	0.5	(D)	3
52.	Whi	ch of the followi	ng is u	sed to measure le	evel of	lubricating oil in	the oi	l sump :
		Oil pressure ga		(B)	Dips			*
	(C)	Warning light		(D)	Timi	ng light		
53.	The as:	amount of heat e	energy	produced during	g comp	elete combustion	of 1 k	g of fuel is termed
	(A)	Knocking rate	(B)	Specific heat	(C)	Calorific value	(D)	Sensible heat
54.	Mult	i Point Fuel Injec	ction (N	MPFI) is used in :				
	(A)	Diesel engine	(B)	Petrol engine	(C)	Steam engine	(D)	None of these
55.	The	amount of voltag	e requ	ired to produce s	spark is	n SI engine is ter	med a	s:
	(A)	Medium voltage		(B)		down voltage		
	(C)	Standard voltag	ge	(D)	Thres	shold voltage		
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56. To reduce emission of unburned hydrocarbon in the automobile exhaust gas combustic chamber is designed as:									
	(A)	Spherical	(B)	Hemispheric	al	(C)	Conical	(D)	Cubical
57.	The o	colour of positive	plate	in Lead acid l	batte	ry is	•		
	(A)	Chocolate brow	n	(1	В)	Grey			
	(C)	White		(1	D)	Red			
58.	The	device used to co							
	(A)	Yoke	(B)	Commutato	r	(C)	Contact breaker	r (D)	Ballast resistor
59.		instrument used umo is :	to tes	t short circui	t bet	tweer	armature wind	ing in	starting motor or
	(A)	Growler		(B)	Mult	imeter		
	(C)	High rate disch	arge te	ester ((D)	Strol	ooscope		
60.	The	volume between	TDC a	and BDC in a	sing	le cyl	linder engine is :		
		Stroke volume						(D)	Both (A) and (B)
61.	Tota	al number of gear	s in a	differential is	:				
	(A)		(B)			(C)	4	(D)	6
62.	In p	etrol engine the	unit w	hich mix petr	ol ar	nd air	is:		
	1	Carburettor	(B)	Fuel pump		(C)	Injector	(D)	Governor
63.	Spa	rk plug is used ir	1:						
	(A)	SI engine	(B)	CI engine		(C)	Steam engine	(D)	All of the above
64.	Wh	ich of the follow	ing fac	tor/factors d	epen	ds uj	oon tyre life ?		
	(A)	Inflation			(B)	Dri	ving style/metho	od	
	(C)	Troubles of ve	hicle		(D)	All	of the above		

65.	Tre	ad cracking of a ty	re ma	y be due	to:				
	(A)	Overloading	(B)	Over inf	lation	(C)	Under inflatio	n (D)	All of the above
66.	The	cross section of co	onnec	ting rod is	1:				
	(A)	I section	(B)	L section	1	(C)	D section	(D)	T section
67.	Can	n shaft is not requ	ired in	1:					
	(A)	4 stroke petrol e	ngine		(B)	4 stro	oke diesel engin	e	
	(C)	Two stroke engi	ne		(D)		e of these		
68.	To 1	reduce the noise, e	engine	exhaust i	s conn	ected t	to the		
		Muffler			(B)		ytic converter		
	(C)	Supercharger			(D)	Turb	ocharger		
69.	The	lubrication system	used	in sports	car is :				
	(A)	Petroil system			(B)	Press	ure system		
	(C)	Dry sump system	n		(D)	Splas	h system		
70.	The	main constituent o	of CN	G (Compr	essed 1	Vatura	l Gas) is :		
		40.	(B)	Ethane			Butane	(D)	Propane
71.	The	reason for the wid	e use	of Alumin	ium al	loy pis	ton is:		
		Low weight			(B)		thermal conduc	tivity	
	(C)	Increased cooling	g effic	iency	(D)		the above		
72.	Worl	king principle of fl	ywhe	el in engin	e is :				
	(A)	Moment of inerti	a		(B)	Pascal	law		
	(C)	Venturi principle			(D)	Charle	es law		
73.	All th	ne gears in the diff	erenti	al are :					
	(A)	Spur gear			(B)	Helica	l gear		
	(C)	Bevel gear			(D)		e helical gear		

74.	A tyre	is specified as P	205/7	75 R14. Th	e digi	t 75 stands for :		
	(A) F	Radius	(B)	Diameter		(C) Aspect ratio	(D) Spe	ed rate
75.	Which	of the following	starti	ng drive is	used	in vehicle ?		
	(A) I	Bendix drive			(B)	Torque tube drive		
	(C) I	Hotchkiss drive			(D)	Full floating drive		
								Ec. v
76.	In the	fully charged co	nditio	n the speci	fic gra	wity of electrolyte at 7		
	(A)	1.29	(B)	1.11		(C) 1	(D) 2.1	
					100			
77.	A batt	tery of 100 AH (Ampe	re Hour) ca	ın giv			
	(A)	10 A current for	10 H		(B)	20 A for 5 H		
	(C)	25 A for 4 H			(D)	All of the above		
78.	The ty	ype of suspension	n syste	em used in	two v			
	(A)	Rigid axle		4.000	(B)	Mac Phersion		
	(C)	Swinging half a	xle		(D)	Telescopic shock abs	sorber	
						1.49		
79.	Which	h of the followin	g batt	ery test use				
	(A)	Open volt test			(B)	Cadmium test		
	(C)	High discharge	test	10.00	(D)	Specific gravity test		
80.	Whic	h of the followir	ng wo			Venturi principle ?	(D) In	inchar
	(A)	FIP	(B)	Feed pun	np	(C) Carburettor	(D) In	jector
81.	Parli	ament of India c						
	(A)	Loksabha and				10 - 11		
	(B)					and Rajyasabha		100
	(C)	Attorney Gene						
	(D)	President, Lok	sabha	and Rajyas	sabha			

82.	Which is the first state to present a bill on the establishment of Lokayuktha in 1970 ?									
	(A)	Kerala	(B)	Punjab		(C)	Odisha	(D)	Rajasthan	
83.	The	idea for the inclus	sion of	f 'Socialist'	in th	e prest	nble is prompte	d bu		
	(A)			. Document	(B)					
	(C)	Acharya Kripal			200		prakash Naraya			
	(0)	richarya Kripan	arn		(D)	Kam	Manohar Lohy	a		
84.	Prot	ection of children	from	sexual offe	nces'	bill pa	ssed by Loksabl	na on :		
	(A)	2013 May 22	(B)	2012 May	12	(C)	2012 May 22	(D)	2013 May 12	
85.	The	social reformer kr	nown a	as 'Kerala l	Linco	ln' :				
	(A)	Pandit K.P. Karı	uppan		(B)	Ayya	ınkali			
	(C)	Sahodaran Ayya	appan		(D)	Paml	oadi John Josepl	n		
86.	Whic	ch pair is incorrec	t?							
	(A)	Yogakshema Sab	ha - 1	908						
	(B)	Nair Service Soci	iety - 1	1914						
	(C)	Sadhu Jana Parij	palana	Sangam -	1903					
	(D)	Vaala Samudaya	Paris	hkarani Sa	bha -	1910				
87.	'Prati	hvaksha Rakeha F	laiva 9	Salaha' Th			6- 1.12 67			
		hyaksha Raksha E Chavara Kuriyak						istians	are founded by :	
	(C)			Acnan	(B)		ayil Yohannan			
	(C)	Pambadi John Jos	sepn		(D)	Palak	kunnath Ebraha	am Mal	pan	
88.	Who Gand	is the only Malay	valee s	social refor	mer	mentic	oned in the auto	biogra	phy of Mahatma	
	(A)	T.K. Madhavan			(B)	Sree N	Narayana Guru			
	(C)	Barister G.P. Pilla	i		(D)	Ayyat	han Gopalan			
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89.	The slogan 'Gareebhi Hatao' is related to which five year plan?									
	(A)	V^{th}	(B)	VI th		(C)	VII th	(D)	IV th	
90.	Who	is the first to ca	lculate	the nation	al inco	me of	India ?			
	(A)	P.C. Mahalano	bis		(B)	C.D.	Deshmukh			
	(C)	Gulsarilal Nan	da		(D)	Dada	abhai Naoroji			
91.	Who	is known as Fa	ther of	Malayalar	n Print	ing?				
	(A)	Herman Gund	ert		(B)	Benja	amin Baily			
	(C)	Arnose Pathiri			(D)	Henr	rik Vanreed			
92.	The	first college in K	Kerala w	vas started	at:					
	(A)	Thiruvanantha	apuran	١,	(B)	Thal	assery			
	(C)	Kozhikode			(D)	Kott	ayam			
93.		ch American cou	untry la	unched th	e const	ructio	on of a new car	nal conne	ecting Atlantic and	
	(A)	Panama	(B)	Nicaragu	ıa.	(C)	Costarica	(D)	Mexico	
94.		became the First of Fame Award		n Footballe	er to be	confe	rred with the A	sian Foot	tball Confederation	
	(A)	Baichung Bhu	tia		(B)	I.M.	Vijayan			
	(C)	Sunil Chetri			(D)	Saile	en Manna			
95.	Nan	ne the leader of	'Paliya	m Sathyag	graha' (1947-	48). Who died	in police	e action ?	
	(A)	Madathil App	u		(B)	Koy	ithattil Chiruk	andan		
	(C)	A.G. Velayud	han		(D)	Pote	ora Kunhambu	Nair		
96.	Way	gon Tragedy Me	morial	Municipal	Town	Hall i	is situated in :			
	(A)	Tirur	(B)	Malappo	uram	(C)	Manjeri	(D)	Ponnani	

97.	The	official journal of SNDP was :	10	
	(A)	Kerala Kaumudi	(B)	Mithavadhi
	(C)	Sahodharan	(D)	Vivekodayam
98.	Whi	ch pair is incorrect ?		
	(A)	Kerala Vyasan - Kodungallur K	unhik	uttan Thampuran
	(B)	Kerala Kalidasan - Kerala Varma	a Vali	yakoyi Thampuran
	(C)	Kerala Vathmeeki - Vallathol		
	(D)	Kerala Panini - N. Krishna Pillai		
99.		book 'Kerala Sahithya Charithra te this book ?	m′ ha:	s five volumes and sixty four chapters. Who
	(A)	Prof. K.M. George	(B)	Ulloor S. Parameswara Iyer
	(C)	Sardar K.M. Panicker	(D)	Dr. M. Leelavathi
100.	won			in South Malabar contributed a lot to Kerala ne of the reformer not belongs to 'Anakkara
	(A)	A.V. Kuttimalu Amma	(B)	Ammu Swaminathan
	(C)	Lalitha Prabhu	(D)	Captain Lakshmi
			- 0 0 0	0 -