PSC Laboratory Technical Assistant - Maintenance And Repairs Of Automobiles - VHSE Examination Previous Year Question Paper

Exam Name: Laboratory Technical Assistant - Maintenance And Repairs Of Automobiles - VHSE

Date of Test: 20.10.2015

Question Paper Code: 199/2015

Medium of Questions: English



199/2015

1.	Name of the Engine which have I	bore is	equal to stroke length:		
	(A) Wankel Engine	(B)	Radial Engine		
	(C) Square Engine	(D)	Hybrid Engine		
2.	Write down correct equation :				
	(A) IHP=BHP+FHP	(B)	FHP = BHP + IHP		
	(C) BHP=IHP+FHP	(D)	IHP=BHP-FHP		
	Var.				
3.	Which of the following Cycle is u	ised ir	petrol engine?		
	(A) Diesel Cycle	(B)	Otto Cycle		
	(C) Carnot Cycle	(D)	Brayton Cycle		
	(-)				
4.	An engine has swept volume of 6	00 cc. l	f compression ratio is 8.5, de	etermine	clearance volume
**	in cc:				
	(A) 40 cc (B) 60 c	CC	(C) 80 cc	(D)	100 cc
5.	One bar is equal to (KPa - KiloP	ascal)			TOUGH FUNDAMEN
	(A) 1 KPa (B) 10	KPa	(C) 1000 KPa	(D)	100 KPa
6.	Actual power delivered at the c	rank s	haft:		12/2/2000
	(A) FHP (B) IHI	P	(C) BHP	(D)	None of these
7.	The part which connects piston	and c	onnecting rod :		
	(A) Crankpin (B) Pis		10000000 COMMITTEE CONTRACTOR OF CONTRACTOR	(D)	Gasket
8.	The exhaust valve usually starts	s open	ing:		
		TDC	(C) before BDC	(D)	before TDC
	2.35				
9.	Valve clearance is measured by	the in	nstrument :		
	(A) Screw gauge (B) Sli			er (D)	Feeler gauge
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10.	Whi	ch of the following is	used to avoid	lover	cooli	ng in the cooling	systen	n of the engine?
	(A)	Pressure cap		(B)		mostat		
	(C)	Expansion reservoir		(D)	Radi	iator		
11.	In w	hich of the following	lubrication sy	ystem	lubrio	cant oil is mixed	with f	uel ?
	(A)	Splash system (B)	Pressure s	ystem	(C)	Dry sump	(D)	Petroil system
12.	Whi	ch is the following nu	mber is used	to ind	icate	ignition quality (of diese	el fuel ?
	(A)	Cetane (B)	Octane		(C)	Random	(D)	None of these
13.	Which	ch of the following is e or cornering ?	used in fuel	tank t	o redi	uce surging of fu	iel on	account of sudder
	(A)	Muffler (B)	Baffle plate	e	(C)	Drain plug	(D)	Rocker arm
14.	An e	lectrical fuel pump of	oerates but de	livers	insuf	ficient fuel. This	may l	pe due to :
	(A)	Chocked pump filter	rs	(B)	Wor	out valves		
	(C)	Damaged diaphragi	n	(D)	All o	f the above		
15.	The o	device which used to	maintain spec	ed at v	varyir	ng load condition	1:	
	(A)	Fly wheel (B)	FIP		(C)	Governor	(D)	Injector
16.	The i	gnition advance meth	nod controls i	gnitio	n timi	ng according to	engine	speed:
	(A)	Vacuum advance		(B)	Centi	rifugal advance		
	(C)	Electric advance		(D)	None	of these		
17.	A Le	ad acid battery is an a	automobile us	ed the	e acid	:		
	(A)	Sulphuric acid		(B)	Hydr	ochloric acid		
	(C)	Nitric acid		(D)	Phos	ohoric acid		
		ir wheeler normally u	-	:				
	(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 con-	dition	on 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	pring	g 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 plate
	(C) Cracked clutch plate	(D)	All of the above
22	The clutch is located between the gear	hox a	and the :
22.	The state of the s		(C) Propeller shaft (D) differential
	(A) Engine (B) Rear axle		(c) righting and
22	Which of the following gear box used	doubl	ole de clutching process ?
23.	(A) Synchromesh gear box	(B)	
		(D)	
	(C) Constant mesh	100	
24	Increase of torque in a vehicle is obtain	ned by	av :
24.	Total des V	(B)	
	1.100.000 10.00000000000000000000000000	(D)	A SAN TANK TO SERVICE AND A SAN TO SERVICE AND A SA
	(C) Increasing power	101	
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 automati	ic trar	
	(A) Epicyclic gear box	(B)	Maria de la Caración
	(C) Sliding mesh	(D)) Synchromesh gear box
27.	When the car is taking a turn the oute the inner wheel in the same time, the	r whe	neel have to travel greater distance as compared to ce used to adjust this is :
	(A) Propeller shaft (B) Slip joint		(C) Differential (D) Transfer case
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28.		rear axle shaft su ing up the vehicle		ting in whic	ch the	axle s	haft can be tal	ken out c	or replaced withou
	(A)	Semi floating ax	le		(B)	Full	floating axle		
	(C)	Three quarter a	xle		(D)	Non	e of these		
		- 4 75							
29.	The	suspension move	ment	in which v	ehicle	move	s perpendicula	r the roa	nd is:
	(A)	Bouncing	(B)	Rolling		(C)	Pitching	(D)	None of these
30.	The	independent susp	ensic	n system v	vhich 1	ises o	nly lower wish	bone :	
	(A)	Wishbone type			(B)	Mac	pherson strut		
	(C)	Vertical guide			(D)	Sing	le strut		
31.	Whi	ch of the followin	g sus	pension sys	tem u	ses co	mpressors ?		
	(A)	Rigid axle	(B)	Independ	ent	(C)	Vertical guid	e (D)	Air suspension
									ennels (E)
32.	Whi	ch of the following	g spri	ing used in	rigid a	axle sı	ispension?		And the (40)
	(A)	Coil spring	(B)	Leaf sprin	ıg	(C)	Air spring	(D)	Torsion spring
									tradely your office
33.	The	tilt of the vehicle	whee	ls from the	vertica	al:			
	(A)	Camber			(B)	Cast	or		
	(C)	Kingpin inclinat	ion		(D)	Com	bined angle		
34.	The i	ratio between side	force	e sustained	to the	slip a	ngle is :		
	(A)	Cornering power	r		(B)	Slip	ratio		
	(C)	Side ratio			(D)	Steer	ing ratio		require to the same
35.	The 1	ratio of tyre section	n hei	ght to the t	yre see	ction v	width:		
	(A)	Ply rate	(B)	Aspect ra	tio	(C)	Tyre ratio	(D)	None of these
36.	The p	process of filling a	ir in	tyre is :					
	(A)	Inflation	(B)	Deflation		(C)	Cracking	(D)	None of these
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37.	The type of wheel which cannot be used with a tubeless ty	re:
	(A) Disc wheel (B) Alloy wheel (C) Wire w	
38.	The heart of the hydraulic brake system is:	
	(A) Wheel cylinder (B) Master cylinder (C) Adjuste	r (D) Brake pedal
39.	The process of removing air from hydraulic system is :	
	(A) Brake adjustment (B) Brake bleeding	ng .
	(C) Wheel alignment (D) Brake alignn	ent
40.	Which of the following brake cannot stop the vehicle like a	service brake ?
	(A) Engine exhaust brake (B) Air brake	
	(C) Bendix hydromax brake (D) Disc brake	
41.	Full form of ABS which is used in vehicle is:	
	(A) Absolute Braking System (B) Always Bette	er Service
	(C) Anti-lock Braking System (D) None of thes	e
42.	The instrument which shows the distance travelled by the	vehicle is :
	(A) Speedometer (B) Tachometer (C) Odom	
43.	Air bag used in a car is:	
	(A) storage of air (B) storage of or	kygen
	(C) for protection of passenger (D) for air brake	
44.		
	(A) Grinder (B) Reamer (C) Tap at	nd die (D) Tube cutter
45.		
	(A) Petrol engine (B) Diesel engine (C) Steam	engine (D) Gas engine
46.		
	(A) Scavenging (B) Compression (C) Engin	e slap (D) Scuffing
		199/201
		1997 / /1112

47.	Med	chanical efficiency	of ar	engine is:								
	(A)	IHP/BHP	(B)	BHP/IHP		(C)	BHP/FHP	(D)	FHP/BHP			
48.	The	sound produced	due	to the excess c	leara	ance	between piston	and cy	linder during cole			
	(A)	Knocking	(B)	Piston slap		(C)	Humming	(D)	Piston scuffing			
49.	The	distance between	cente	er line of crank	kpin	and	main journal axi	s is:				
	(A)	Crank throw		(1	В)	Valv	e clearance					
	(C)	Eccentricity		(1	D)	Norr	nal clearance					
50.	Whi	ch of the followin	g val	ve is used in a	utom	obile	engine?					
	(A)	Poppet valve	(B)	Rotary valve		(C)	Sleeve valve	(D)	None of these			
51.	The	ratio of RPM of c	ranks	haft to the RP	M of	cam	shaft is :					
	(A)	1	(B)	2		(C)	0.5	(D)	3			
52.	Which of the following is used to measure level of lubricating oil in the oil sump:											
		Oil pressure gau				Dips						
	(C)	Warning light		(I	0)	Timir	ng light					
53.	The as:	amount of heat er	nergy	produced duri	ing c	omp	lete 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 Inject	ion (N	MPFI) is used in	n:							
	(A)	Diesel engine	(B)	Petrol engine	(C)	Steam engine	(D)	None of these			
55.	The a	amount of voltage	requ	ired to produc	e spa	ark ir	SI engine is ter	med a	s:			
	(A)	Medium voltage					down voltage					
	(C)	Standard voltage	9	(D) T	hres	hold voltage					
199/	2015				8				A			

56.	To re	educe emission o	f unbu	rned hydrocart	on in	the automobile	exhaus	t gas combustion
		ber is designed a Spherical		Hemispherical	(C)	Conical	(D)	Cubical
57.	The	colour of positive	plate i	n Lead acid bat	tery is	:		
37.		Chocolate brow		(B)	Grey			
	(A)			(D)	Red			
	(C)	White		(15)	110.01			
	-	device used to co		A.C. commont in th	a arm	ature coil to DC	current	is:
58.						Contact breake		
	(A)	Yoke	(B)	Commutator	(-)	Contact breake	. (5)	Daniel
						- sematura mind	ling in	starting motor or
59.		instrument used amo is :	to test	t short circuit b	etwee	n armature wind	inig iii	starting motor or
		Growler		(B)	Mul	timeter		
	(C)	High rate disch	arge te	ster (D)	Stro	boscope		
	1-1							
60.	The	volume between	TDC a	and BDC in a sir	igle cy	linder engine is:		
00.		Stroke volume					(D)	Both (A) and (B)
	(**)		Tark.					
61.	Tota	al number of gear	s in a c	differential is:				
01.	(A)		(B)	3	(C)	4	(D)	6
	(12)		151		7 - 7			
60	Inc	petrol engine the t	mit wl	hich mix petrol	and ai	r is :		
62.		Carburettor		Fuel pump	(C)		(D)	Governor
	(A)	Carburettor	(0)	rue. punip	1-2	,		
		1 1 to send in						
63.	16	ork plug is used in		CI engine	(C)	Steam engine	(D)	All of the above
	(A)	SI engine	(B)	CI eligine	(-)	Jeens or g		
7.000				tou / factour dorse	mde u	non tyre life ?		
64.		nich of the followi	ing rac			iving style/meth	od	
	(A)			(B)		of the above		
	(C)	Troubles of vel	nicle	(D) All	of the above		
Α					9			199/2015
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65.	Tre	ead cracking of	a tyre ma	y be due to	:						
	(A)	Overloading	g (B)	Over infla	tion	(C)	Under inflation	(D)	All of the above		
66.	The	e cross section	of connec	ting rod is:							
		I section		L section		(C)	D section	(D)	T section		
67.	Car	n shaft is not r	equired in	1:							
		4 stroke petr			(B)	4 str	oke diesel engine				
	(C)	Two stroke e	engine		(D)		e of these				
68.	To	reduce the nois	se, engine	exhaust is	conn	ected	to the				
	(A)				(B)		lytic converter				
	(C)	Supercharge	r		(D)		ocharger				
69.	The	lubrication sys	stem used	in sports ca	ır is :						
	(A)	Petroil system	n		(B)	Press	ure system				
	(C)	Dry sump sy	stem		(D)	Splas	h system				
70.	The	main constitue	ent of CN	G (Compres	sed 1	Vatura	l Gas) is :				
	(A)	Methane	(B)	Ethane		(C)	Butane	(D)	Propane		
71.		reason for the									
					(B)	High	thermal conduct	ivity			
	(C)	Increased coo	oling effic	iency	(D)	All of	the above				
2	147-										
2.		king principle		- 5							
		Moment of in			(B)	Pascal law					
	(C)	Venturi princ	iple		(D)	Charl	es law				
2	A II el	ha manus in the	1:00								
J.		he gears in the	differenti		(Tax		•10-10-10-1				
	(A)	Spur gear			(B)		l gear				
	(C)	Bevel gear		((D)	Doubl	e helical gear				

					omes or serve			
74.	A tyr	e is specified as F	205/75 R14.	The digi				
	(A)	Radius	(B) Diame	ter	(C) Aspect ratio	(D)	Speed rate	
75.	Whic	h of the following	g starting driv	ve is used				
	(A)	Bendix drive		(B)	Torque tube drive			
	(C)	Hotchkiss drive		(D)	Full floating drive			
76.	In th	e fully charged co	ondition the s	pecific gra	vity of electrolyte at			
	(A)	1.29	(B) 1.11		(C) 1	(D)	2.1	
				e e ne				
77.		ittery of 100 AH (
	47.50	10 A current for	10 H	· (B)	20 A for 5 H			
	(C)	25 A for 4 H		(D)	All of the above			
				W 100				
78.	The	type of suspensio	n system use					
	(A)	Rigid axle		(B)	Mac Phersion	carbar		
	(C)	Swinging half a	ixle	(D)	Telescopic shock abs	sorber		
		agent, 27			wowatow 2			
79.		ich of the followir	ng battery tes		Cadmium test			
		Open volt test		(B) (D)	Specific gravity test			
	(C)	High discharge	test	(0)	Specific gravity test			
	7411	t Cab Callaurin	na warke acc	ording to	Venturi principle ?			e al
80.				pump	(C) Carburettor	(D)	Injector	
	(A)	FIP	(6)	Pump	(-/			
01	Day	liament of India c	onsists of					
81.								
	(A)			oksabha a	nd Rajyasabha			
	(B)						19	
	(C) (D)							
	(D)	Tresident, Low		11				

82.	Wh	ich is the first state	e to presen	t a bill on t	he establishment of l	Lokayukt	ha in 1970 ?	
		Kerala		njab	(C) Odisha			
83.	The	idea for the inclu	-1					
03.				nalist in th	e preamble is promp	ted by:		
	(A)			(B)	Jayaprakash Nara	yan		
	(C)	Acharya Kripal	ani	(D)	Ram Manohar Lol	nya		
84.	Prof	ection of children	from sexua	al offences'	bill passed by Loksa	bha on:		
	(A)	2013 May 22	(B) 2012	2 May 12	(C) 2012 May 22	(D)	2013 May 12	
	-							
85.	The	social reformer kr		erala Linco	ln' :			
	(A)	Pandit K.P. Karı	uppan	(B)	Ayyankali			
	(C)	Sahodaran Ayya	appan	(D)	Pambadi John Jose	ph		
86.	Whi	ch pair is incorrec	t?					
	(A)	Yogakshema Sab	oha - 1908					
	(B)	Nair Service Soci	iety - 1914					
	(C)	Sadhu Jana Parij	palana San	gam - 1903				
	(D)	Vaala Samudaya	Parishkar	ani Sabha -	1910			
87.	'Prat	hyaksha Raksha D	aiva Sabha	a' - The org	anisation for dalit C	hristians	are founded by	
	(A)	Chavara Kuriyak			Poykayil Yohannan		•	
	(C)	Pambadi John Jos	seph	(D)	Palakkunnath Ebra	ham Mal	pan	
88.	Who Gand	is the only Malay	yalee socia	l reformer	mentioned in the au	itobiogra	phy of Mahatn	na
	(A)	T.K. Madhavan		(B)	Sree Narayana Gur	u		
	(C)	Barister G.P. Pilla	i	(D)				
199/	2015			12				٨

89.	The s	logan 'Gareebhi H	latao	is related	to whi	ch fix	e year plan	,				
	(A)	V^{th}	(B)	VI th		(C)	VII th	(D)	IV th			
				10 A CO								
90.		is the first to calcu		the nationa								
	(A)	P.C. Mahalanobis			(B)		Deshmukh					
	(C)	Gulsarilal Nanda			(D)	Dada	abhai Naoroj	i				
91.	Who	is known as Fathe	er of	Malayalam	Printi	ng?						
		Herman Gundert		2	(B)		amin Baily					
		Arnose Pathiri			(D)		rik Vanreed					
	(0)	minose i titilii			1-1							
92.	The	first college in Ker	ala w	as started	at:							
	(A)	Thiruvananthap	uram		(B)	Thal	assery					
	(C)	Kozhikode			(D)	Kott	ayam					
93.	Which American country launched the construction of a new canal connecting Atlantic and Pacific ocean ?											
	(A)	Panama	(B)	Nicaragua	ă.	(C)	Costarica	(D)	Mexico			
94.		became the First I of Fame Award?		Footballer	to be o	confe	red with the	Asian Foot	ball Confederation	n		
	(A)	Baichung Bhutia			(B)	I.M.	Vijayan					
	(C)	Sunil Chetri			(D)	Saile	en Manna					
95.	Nan	ne the leader of 'P	aliya	m Sathyagr	aha' (1947-	18). Who die	d in police	e action ?			
	(A)	Madathil Appu			(B)	Koy	ithattil Chiru	ıkandan				
	(C)	A.G. Velayudha	n		(D)	Pote	ora Kunhamb	ou Nair				
96.	Wag	gon Tragedy Memo	orial	Municipal '	Town	Hall i	s situated in	1				
	(A)	Tirur	(B)	Malappu	ram	(C)	Manjeri	(D)	Ponnani			
A					13				199/201	5		
17.7									{P.T.O	.}		

- 97. The official journal of SNDP was:

 (A) Kerala Kaumudi
 (B) Mithavadhi
 (C) Sahodharan
 (D) Vivekodayam

 98. Which pair is incorrect?

 (A) Kerala Vyasan Kodungallur Kunhikuttan Thampuran
 (B) Kerala Kalidasan Kerala Varma Valiyakoyi Thampuran
- 99. The book 'Kerala Sahithya Charithram' has five volumes and sixty four chapters. Who
 - (A) Prof. K.M. George

wrote this book?

- (B) Ulloor S. Parameswara Iyer
- (C) Sardar K.M. Panicker

(C) Kerala Vathmeeki - Vallathol

(D) Kerala Panini - N. Krishna Pillai

- (D) Dr. M. Leelavathi
- 100. 'Anakkara Vadakkathu' is a famous family in South Malabar contributed a lot to Kerala women empowerment. Find out the name of the reformer not belongs to 'Anakkara Vadakkathu' family :
 - (A) A.V. Kuttimalu Amma
- (B) Ammu Swaminathan

(C) Lalitha Prabhu

(D) Captain Lakshmi

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