PSC Work Assistant - Nca - KSRTC Examination Previous Year Question Paper

Exam Name: Work Assistant - Nca - KSRTC

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Question Paper Code: 219/2015

Medium of Questions: English



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219/2015

Maximum: 100 marks

Time: 1 hour and 15 minutes

1.	The engin	e runs in a clos	sed garage can b	e dangerous	bec	ause:	
	(A)	The exhaust	gas contains car	bon monoxide	Э		
	(B)	The exhaust	gas contains car	bon dioxide			The last
	(C)	The exhaust	gas contains wa	ter vapour			
	(D)	The exhaust	gas may catch fi	re			
2.	Which of	the following sl	hould not be don	ne by a good n	nec	hanic?	
	(A)	Put sharp ed	ged tools in the	pocket			
	(B)	Wipe excess of	il and grease of	f the hands a	nd t	tools	
	(C)	Always keep	the workshop flo	oor clean			
	(D)	Wear safety g	oggles while gri	inding			
3.	Which of	the following is	not used in fire	extinguishe	rs?		
	(A)	Foam			◀		
	(B)	Dry chemical	8				
	(C)	Solution of so	dium bicarbona	te and sulphi	uric	acid	
	(D)	Carbon mono	xide				
4.	The least	count of univer	rsal vernier cali	per is:			
	(A)	0.1 mm		(B)	C	0.01 mm	
	(C)	0.02 mm		(D)	C).2 mm	
5.	Which of	the following is	used for securi	ng a tightene	d n	ut in position?	
0.	(A)	Key	, used for booding	(B)		Cotter pin	
	(C)	District Control		(D)		Gasket	
	ALLA		hotwoon	their teeth?			
6.			space between			Smooth files	
	(A)	Rough files		(D)		Bastard files	
	(C)	Coarse files		(D)		Dastaru mes	
7.	The cross	-sectional shap	e of an allen ke	y is:			
	(A)	Square		(B)		Pentagon	
	(C)	Hexagon		(D)	(Octagon	
A			**	3			

8.	Which of the following is not a precision measuring instrument?				
	(A)	Outside micrometer	(B)	Dial indicator	
	(C)	Vernier height gauge	(D)	Universal surface gauge	
9.	A round r	od which does not have a head, and	has exte	rnal threads at both ends is called:	
	(A)	Stud	(B)	Bolt	
	(C)	Nut	(D)	Screw	
10.	Snips are	used for :			
	(A)	Cutting away thick layer of metal	(B)	Cutting sheet metal	
	(C)	Cutting wooden blocks	(D)	Cutting external threads	
11.	The ratio	of work output of an engine to the fu	uel energ	y burnt is called :	
	(A)	Mechanical efficiency	(B)	Volumetric efficiency	
	(C)	Thermal efficiency	(D)	Compression ratio	
12.	The powe	r available at the engine's flywheel i	s called :		
	(A)	Indicated horse power	(B)	Brake horse power	
	(C)	Frictional horse power	(D)	Overall efficiency	
13.	Opening a	and closing of the valves in relation t	o the pos	sition of piston and flywheel is called:	
	(A)	Valve lead	(B)	Valve lag	
	(C)	Valve overlap	(D)	Valve timing	
14.	The type	of piston pin generally used in heavy	duty die	esel engine is :	
	(A)	Fully floating piston pin	(B)	Semi floating piston pin	
	(C)	Set screw type piston pin	(D)	Three-quarter type piston pin	
15.	"Scuffing"	occurs when:			
	(A)	Piston slides against cylinder with	out lubric	cation	
	(B)	Piston clearance is excessive			
	(C)	Piston rings are worn out			
	(D)	Cylinder liner is worn out			
16.	When the	piston is at BDC, volume of the cylin	nder abo	ve the piston is?	
	(A)	Clearance volume	(B)	Swept volume	
	(C)	Total volume	(D)	Compression ratio	
210/	2015				

17.	The numb	er of main journals on a six-cylinder	engine's	s crankshaft will be :
	(A)	Either 4 or 6	(B)	Either 5 or 7
	(C)	Either 6 or 8	(D)	Either 6 or 12
18.	In a diese	l engine, the fuel gets ignited by :		
10.	(A)	Fuel injector	(B)	Electric spark
	(C)	Heater plug	(D)	Heat of compressed air
	(0)	Para Para Para Para Para Para Para Para		
19.	Force × D	istance =		
	(A)	Power	(B)	Torque
	(C)	Work	(D)	Energy
20.	Which pro	ocess gives the engine cylinder a cross	-hatch	pattern?
	(A)	Drilling	(B)	Boring
	(C)	Facing	(D)	Honing
21.	Which of	the following cannot be a reason for e	ngine o	
	(A)	Worn out thrust bearing	(B)	Lack of coolant
	(C)	Thermostat valve stuck closed	(D)	Late ignition timing
22.	If you not	ice the presence of engine oil inside th	ne radia	tor filler neck, the reason can be:
	(A)	Defective radiator pressure cap	(B)	Damaged cylinder head gasket
	(C)	Defective thermostat valve	(D)	Defective oil pump
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23.		erse flushing a radiator, the flushing	(B)	Lower tank
	(A)	Upper tank	(D)	Thermostat housing
	(C)	Water pump inlet	(D)	Thermostat housing
24.	Excessive	engine oil consumption can be happe	ned if:	
	(A)	Viscosity of the oil is excessive		
	(B)	Oil passages in the engine is blocked	d	
	(C)	Piston rings are worn out		
	(D)	Pressure relief valve is stuck closed		
25.	The force	which retards the motion of one body	, in con	tact with another body is called:
	(A)	Friction	(B)	Adhesion
	(C)	Cohesion	(D)	Torsion
	(-)			
A		5		219/2015

26.	The posit	tive crankcase ventilation system he	elns ·				
	(A)						
	(B)	To reduce the atmospheric pollut	1				
	(C)	To prevent oil dilution and sludge					
	(D)	All of the above					
27.	Which of	the following is not a function of fu	el injectio	on system in the diesel engines?			
	(A)	To atomise the fuel	· ·	ar system in the dieser engines.			
	(B)	To supply the fuel into the cylinder	er in mete	ered quantity			
	(C)	To prepare air-fuel mixture in the					
	(D)			nto the compressed air in the cylinder			
28.	When the	helix and spill port of an inline typ	oe FIP cor	nes to coincide, what will happen?			
	(A)	Suction of fuel into the barrel	(B)	Medium fuel delivery			
	(C)	Maximum fuel delivery	(D)	No fuel delivery			
29.	In an aut	omobile, the solenoid switch is a pa	rt of:				
	(A)	Starting system	(B)	Ignition system			
	(C)	Charging system	(D)	Lighting system			
30.	Spark plu	ng 'reach' means:					
	(A)	The heat range of the spark plug					
	(B)	The length of central electrode					
	(C)	The length of the threaded portion	n of the sp	park plug shell			
	(D)	The gap between the spark plug to	erminals				
31.	The longit	tudinal distance between the centre	s of the fi	ront and rear axles is called :			
	(A)	Turning radius	(B)	Axle ratio			
	(C)	Wheel track	(D)	Wheel base			
32.	The metal	used for body building of automobi	iles is gen	erally:			
	(A)	Cast iron	(B)	Steel			
	(C)	Copper	(D)	Aluminium			
33.	The chass	is frame of vehicles is narrow at the	e front, be	ecause:			
	(A)	It gives smaller turning radius to	the vehicl	e			
	(B)	Number of tyres is less at the fron	1/4				
	(C)	Weight of the vehicle is less at the					
	(D)	It helps to reduce the weight of the	e frame				
219/	2015	6		A			

34.	The type of car in which	the driver's cabin	is separated	from the rear	compartment	by using a
	window is called:					

(A) Sedan

(B) Coupe

(C) Limousine

(D) Station wagon

35. The 'immobiliser' is:

- (A) A mobile phone charging device used in cars
- (B) An electronic security device for vehicles
- (C) An automatic tyre changing equipment.
- (D) A trailer attached to the carriage vehicles

36. Seat belts used in cars are generally:

(A) Two point type

(B) Three point type

(C) Four point type

(D) Five point type

37. The crumple zone is:

- (A) A garage, where the unserviceable vehicles are kept
- (B) The space inside the luggage compartment of the vehicle
- (C) The area which cannot be seen by the driver
- (D) The part of the vehicle, designed to absorb the energy during a collision

38. The term 'Gross Vehicle Weight' indicates:

- (A) The maximum operating weight of a vehicle without trailer
- (B) Weight of the vehicle without passengers
- (C) Weight of the vehicle when its body is removed
- (D) Weight of the passengers a vehicle can carry

39. "ABS" stands for :

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- (A) Auxilary Brake System
- (B) Antiroll Brake System
- (C) Antilock Brake System
- (D) All wheel Brake System

40. When the child lock is ON?

- (A) The door can be opened from inside
- (B) The door cannot be opened from outside
- (C) All the doors will be closed automatically
- (D) The door cannot be opened from inside

219/2015 [P.T.O.]

41.	In tubele	ss tyres :		
	(A)	Air is filled in a tube inside	the tyre	
	(B)	Air is filled in between rim	and the tyre	
	(C)	No air is required		
	(D)	Liquid is filled in place of a	ir	
42.	Tyre rota	tion is carried out for :		
	(A)	Reconditioning of a damage	d tyre	
	(B)	Equalising the wear of all the		hicle
	(C)	Free movement of the tyres		
	(D)	Removing impurities from t		
43.	Tread We	ear Indicator is located :		
	(A)	On the tyre, where the trea	d meets the sid	e wall
	(B)	On the dashboard of the vel	nicle	
	(C)	At the wheel alignment sho	ps	
	(D)	On the front bumper of the	vehicle	
44.	In a tyre	of '9.00-20- 12PR' size, "20" in	dicates that:	
	(A)	Tyre width is 20 inches	(B)	Tyre pressure is 20 kg/cm ²
	(C)	Rim diameter is 20 inches	(D)	Maximum speed limit is 200 kmph
45.	The leaf s	prings are supported on the a	yles by means	of.
	(A)	V-belt	(B)	Spring retainer
	(C)	Helper springs	(D)	U-bolt
		and the stranger	(2)	G-Bolt
46.	The 'Acke	rman mechanism' is related t	0:	
	(A)	Air-conditioning system	(B)	Transmission system
	(C)	Steering system	(D)	Lubrication system
47.	In heavy	vehicles, the gears of different	ial assembly a	re lubricated with :
	(A)	SAE 40 oil	(B)	SAE 90 oil
	(C)	SAE 140 oil	(D)	Grease
48.	Which of	the following is not a part of d	ifferential asse	mbly?
	(A)	Crown wheel	(B)	Sun gear
	(C)	Pinion	(D)	Universal joint
219/	2015		8	

[P.T.O.]

49.	The air su	ispension system is commonly employe	d in :	
	(A)	Heavy buses and trucks	(B)	Light commercial vehicles
	(C)	Stationary engines	(D)	Motor cycles
50.	The electr	rolyte used in a lead-acid battery is:		
	(A)	Hydrochloric acid	(B)	Sulphuric acid
	(C)	Nitric acid	(D)	Lead Peroxide
51.	The facing	g of the clutch friction plate is made of:		
	(A)	Asbestos	(B)	Rubber
	(C)	Steel	(D)	Cast iron
52.	The clutch	n cover is bolted to the :		
	(A)	Pressure plate	(B)	Crankcase
	(C)	Gearbox	(D)	Flywheel
53.	In a mode	ern automobile gearbox, most of the gea	rs are	
	(A)	Helical gears	(B)	Spur gears
	(C)	Spiral bevel gears	(D)	Herringbone gears
54.	In gear sy	stems, as the speed decreases:		
	(A)	Torque decreases	(B)	Torque increases
	(C)	Torque remains the same	(D)	Torque comes to zero
55.	A transfer	case is used in:		
	(A)	All automobiles		
	. (B)	Vehicles with automatic transmission	i.	
	(C)	Four wheel drive vehicles		
	(D)	Rear wheel drive vehicles		
56.	To stop a	running vehicle :		
	(A)	All the wheels require equal braking	force	
	(B)	All the wheels require different braki	ng for	rce.
	(C)	More braking force is required at the	front	wheels
	(D)	More braking force is required at the	rear	wheels
57.	A tandem	master cylinder has :		
	(A)	One piston	(B)	Two pistons
	(C)	Three pistons	(D)	No pistons
A		9		219/2015

58.	"R 134 a"	is:			
	(A)	A brake fluid		(B)	A coolant
	(C)	A lubricant		(D)	A refrigerant
59.	The park	ing brake employed in	cars are usually op	oera	ted:
	(A)	Mechanically		(B)	Hydraulically
	(C)	Electrically		(D)	Pneumatically
60.	In the air	brake system, the valv	ve which regulates	the	line air pressure is :
	(A)	Brake valve		(B)	Delivery valve
	(C)	Thermostat valve		(D)	Unloader valve
61.	Which on	e has negative temp co	efficient of resista	ince'	
	(A)	Carbon		(B)	Copper
	(C)	Aluminium		(D)	Iron
62.	The electr	rical conductor used in	battery is:		
	(A)	Gas		(B)	Aluminium
	(C)	Silver		(D)	Water
63.	SI unit of	charge is:			
	(A)	Volt	((B)	ESU of charge
	(C)	Farad		(D)	Coulomb
64.	A battery	is a source of:			
	(A)	AC or DC Voltage		B)	1 Φ AC voltage
	(C)	DC Voltage		D)	3 Φ AC Voltage
65.	Which one	e of the following instru	uments is used for	mea	suring specific gravity of electrolyte?
	(A)	Hydro meter	(B)	Barometer
13/	(C)	Volt meter	(D)	Lactometer
66.	For silicon	PN junction, the barr	ier potential is abo	out:	
	(A)	1.7 V	0	B)	0.001 V
	(C)	0.07 V	0	D)	0.7 V
67.	What is th	ne EMF of a fully charg	ed lead acid cell?		
ŧ.	(A)	2 V		B)	1.8 V
	(C)	2.1 V	0	D)	1.5 V
210/	2015		10		

68.	The total value of two resistance is 25Ω when connected in series, and 6Ω W connected in parallel. Find the value of two resistance :			
	(A)	10Ω, 15Ω	(B)	12Ω , 13Ω
	(C)	20Ω,5Ω	(D)	19Ω, 6Ω
69.	The comn	nercial unit of Electrical energy is:		
	(A)	Ampere hour	(B)	Kilo watt hour
	(C)	Watt-hour	(D)	Joule
70.	How man	y number of positive and negative plate	es are	placed in a 9 plate lead acid cell?
	(A)	4 positive plate and 4 negative plate		
14	(B)	5 positive plate and 4 negative plate		
	(C)	5 positive plate and 5 negative plate		
	(D)	4 positive plate and 5 negative		
71.	A perman	ent magnet moving coil instrument wi	ll read	
	(A)	Only AC quantities	(B)	Both AC and DC quantities
	(C)	Only DC quantities	(D)	Pulsating quantities
72.	What is the	he working principle of a two winding t	ransfo	ormer?
	(A)	Self-induction	(B)	Mutual induction
	(C)	Principe of DC Motor	(D)	Lenz's law
73.	Which pa	rt of the PMMC instrument produce ed	dy cui	rrent damping?
	(A)	Moving coil	(B)	Aluminium former
	(C)	Permanent magnet	(D)	Soft iron cylindrical core
74.	The proce	ss of adding impurities to a semicondu	ctor is	known as:
	(A)	Sintering	(B)	Drifting
	(C)	Doping	(D)	Intrusion
75.	A four po	le 1200 RPM alternator will generate e	mf at	a frequency of:
	(A)	25 Hz	(B)	40 Hz
	(C)	50 Hz	(D)	60 Hz
A		11		219/2015 [P.T.O.]

76.	The most	suitable motor for electric traction i	s:	magnification of the second of
	(A)	DC shunt motor	(B)	DC compound motor
	(C)	DC Series motor	(D)	None of the above
77.	The quan	tity of scale on the dial of the Multin	neter at	the top most is:
	(A)	DC current	(B)	AC current
	(C)	AC voltage	(D)	Resistance range
78.	The diele	ctric strength of insulation is called :		
	(A)	Barriers voltage	(B)	Breakdown down voltage
	(C)	Peak inverse voltage	(D)	Peak voltage
79.	In the cas	se of pure metallic conductors the res	istance i	s:
	(A)	Inversely proportional to the sp: re	sistance	
	(B)	Directly proportional to the cross s	ectional	area
	(C)	Directly proportional to the length		
	(D)	None of the above		
80.	When the called?	disc of an energy meter is rotating	even wi	thout connecting any Load the error is
	(A)	Creeping error	(B)	Phase error
	(C)	Friction error	(D)	Parallax error
81.	The Indus	site Kalibangan belongs to :		
	(A)	Punjab	(B)	Haryana
	(C)	Gujarat	(D)	Rajasthan
82.	The Chalc	olithic Jorwe culture flourished betw	reen the	age:
	(A)	1400 - 700 BC	(B)	1300 – 600 BČ
	(C)	1800 – 2400 BC	(D)	1600 – 700 BC
2101	2017			

83.	Tolkapiya	m is a work on :		
	(A)	State craft	(B)	Ayurveda
	(C)	Grammar	(D)	None of these
84.	Kautilya	thought to be the chief minister	of:	
	(A)	Ashoka	(B)	Chandraguptha
	(C)	Samudragupta	(D)	Rajendra Chola
85.	Justice pa	arty was founded at :		
	(A)	Calcutta	(B)	Bombay
	(C)	Madras	(D)	None of these
86.	The Hind	usthan Socialist Republican Arr	ny (HSRA) w	as founded at :
00.	(A)	Amritsar	(B)	Delhi
	(C)	Lukhnow	(D)	Chandigarh
87.	The famo	us quit India resolution was pas		
	(A)	Lahore	(B)	Madras
	(C)	Calcutta	(D)	Bombay
88.	The Anan	nudi peak situated in :		
	(A)	Kollam district	(B)	Pathanam Thitta district
	(C)	Idukki district	(D)	Kottayam district
89.	'Kerala -	A portrait of the Malabar Coast	is written by	y: "
	(A)	George wood cock	(B)	Roll and E. Miller
	(C)	Robin Jeoffrey	(D)	R.C. Brizton
90.	The ancie	nt Kerala port named as Rajeno	dra Chola Pat	tanam is:
	(A)	Barace	(B)	Vizhinjam
	(C)	Calicut	(D)	Muzris
01	Chattan	oi Swamikal attained 'Samadhi'	at:	
91.	(A)	Varkala	(B)	Sivagiri
	(C)	Kannanmula	(D)	Panmana
A			13	219/2015
A				[P.T.O.]

92.	The foun	der of Atmavidya Sangham was :		
	(A)	Vaikunta Swami	(B)	Kumara Guru
	(C)	Swami Vagbhatananda	(D)	None of these
93.	'Al Islam	, an Arabic - Malayalam monthly	was publis	hed by :
	(A)	Makthi Thangal	(B)	K.M. Moulavi
	(C)	Muhammad Abdul Rahiman	(D)	Vakkom Abdulkhadir Moulav
94.	Sadhu Ja	na Paripalana Yogam was founded	in the yea	ar:
	(A)	1907	(B)	1909
	(C)	1911	(D)	1918
95.	'Nalagam	am' deals with :		
	(A)	Astronomy	(B)	History
	(C)	Medicine	(D)	Grammar
96.	'Operatio	n Sakti', the second Neuclear exper	iment of I	ndia, led by :
	(A)	Dr. K. Radha Krishnan	(B)	Dr. G. Madhavan Nair
	(C)	Dr. A.P.J. Abdul Kalam	(D)	None of these
97.	Wanderin	ng in many worlds' is a book writte	n by:	
	(A)	Dr. Sasi Tharoor	(B)	Kuldip Nayyar
	(C)	M.J. Akbar	(D)	Justice V.R. Krishna Ayer
98.	The film	P.K. is directed by :		
	(A)	Amir Khan	(B)	Rajkumar Hirani
	(C)	Sidharth Roy Kapur	(D)	Vinod Chupra
99.	The first	Chairman of Neethi Ayog:		
	(A)	Aravind Panagariya	(B)	Montesingh Ahluwaliya
	(C)	Arun Jaitley	(D)	Narendra Modi
100.	Name the	top wicket scorer in test cricket:		
	(A)	Muralidharan	(B)	Kapil Dev
	(C)	Anil Kumble	(D)	Wazim Akram