

CCE RR/PF

NSQF LEVEL-2

KARNATAKA SCHOOL EXAMINATION AND ASSESSMENT BOARD, MALLESHWARAM, BENGALURU – 560 003 NSQF LEVEL-2 EXAMINATION, JUNE, 2024

MODEL ANSWERS

Date : 15. 06. 2024]

CODE NO. : 88-EK

Subject : Automobile

(English Medium) (Regular Repeater / Private Fresh)

[Max. Marks: 60

Qn. Nos.		Value Points		Total	
I.	quest corre along	Four choices are given for each of the following questions / incomplete statements. Choose the correct answer and write the complete answer along with its question number and its letter of alphabet : $10 \times 1 = 10$			
1.	Rolli	ng resistance depends upon			
	(A)	Slope of the road			
	(B)	Speed of the vehicle			
	(C)	Materials of the road surface			
	(D)	Vehicle's acceleration			
	Ans	(C) Materials of the road surface		1	
2.	An e	xample for natural lubricant is			
	(A)	Grease			
	(B)	Animal oil			
	(C)	Petroleum oil			
	(D)	Commercial grade oil			
	Ans.	(B) Animal oil		1	

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Qn. Nos.	Value Points	Total
3.	The component that supports the weight of the	
	vehicle is	
	(A) Strut road (B) Strut	
	(C) Spring (D) Ball joint	
	Ans. (C) Spring	1
4.	Stub axle without rigid axle beam type is widely	
	used on	
	(A) Cars	
	(B) Buses	
	(C) Heavy commercial vehicles	
	(D) Trucks	
	Ans. (A) Cars	1
5.	Lubrication is used for reducing	
	(A) Cooling part (B) Temperature	
	(C) Pressure (D) Friction	
	Ans. (D) Friction	1
6.	The tool used to check the oil level in the engine is	
	(A) Oil filter (B) Dipstick	
	(C) Oil drain plug (D) Funnel	
	Ans. (B) Dipstick	1
7.	A car's air filter should be replaced after	
	(A) 45,000 km (B) 30,000 km	
	(C) 50,000 km (D) 70,000 km	
	Ans. (C) 50,000 km	1

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Qn. Nos.	Value Points	Total
8.	The material used to wipe the roof of the car while washing the car is	
	(A) Paper (B) Sponge	
	(C) Tissue paper (D) Plastic brush	
	Ans. (B) Sponge	1
9.	The correct way of parking the car while changing the oil in the car is	
	(A) Car should be on a level ground with hand brake on and engine off	
	(B) Car should be on a slope with hand brake on and engine on	
	(C) Car should be on a level ground with hand brake on and engine on	
	(D) Car should be on a level ground with hand brake off and engine off	
	Ans. (A) Car should be on a level ground with hand brake on and engine off	1
10.	The first company to introduce "ABS" system in cars in the year 1978 is	
	(A) Honda (B) BMW	
	(C) Mercedes-Benz (D) TATA	
	Ans. (C) Mercedes-Benz	1
п.	Fill in the blanks with suitable answer : $4 \times 1 = 4$	
11.	Door windows of cars are held by	
	Ans.	
	Fasteners	1

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Qn. Nos.	Value Points	5		Total
12.	The tube tyres and tubeles	s tyres are called		
	tyres.			
	Ans.			1
	Pneumatic			1
13.	The brake is a cre	eating device.		
	Ans.			1
	Friction	tool used for		-
14.	A grease gun is a lubrication.	1001 used 101		
	Ans.			
	Garage			1
III.	Uses of automobile tools are	given in Column-A		
	and automobile tools are g	iven in Column-B.		
	Match them and write the an	swer along with its		
	letter of alphabet :	4 × 1 = 4		
15.	Column-A	Column-B		
	(i) Removing the wheels of vehicle	(a)Snips		
	(ii) For softer blows	(b)Wheel wrenches		
	(iii) To create cylindrical holes	(c)Hand hacksaw		
	(iv) To cut sheet metals	(d)Mallet		
		(e)Drill bits		
		(f) Multimeter		
		(g)Tachometer		
	Ans :			
	(i) (b) Wheel wrenches		1	
	(ii) (d) Mallet		1	
	(iii) (e) Drill bits		1	
	(iv) (a) Snips			

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Qn. Nos.	Value Points		Tota
IV.	Answer the following questions : $6 \times 1 = 6$		
16.	What are the two types of automobile engine cooling		
	system ?		
	Ans.	1/2	
	1. Air cooled engine		
	2. Water cooled engine	1/2	1
17.	Write the use of spanner.		
	Ans.		
	The spanner is a hand tool used to loosen and		
	tighten the nuts and bolts.		1
18.	Name any two measuring tools used in automobile.		
	Ans.	1/2	
	1. Caliper	72	
	2. Micrometer	1⁄2	1
19.	Regular oil change is important for a vehicle. Why ?		
	Ans.		
	Engine oil is important material in a vehicle.		
	Incorrect oil level can cause the serious damage to		
	your vehicle engine.		1
20.	What are the precautions to be taken during vehicle		
	washing ?		
	Ans.		
	1. Wear old clothes for this job	1⁄2	
	2. Use car soap only	$\frac{1}{2}$	1

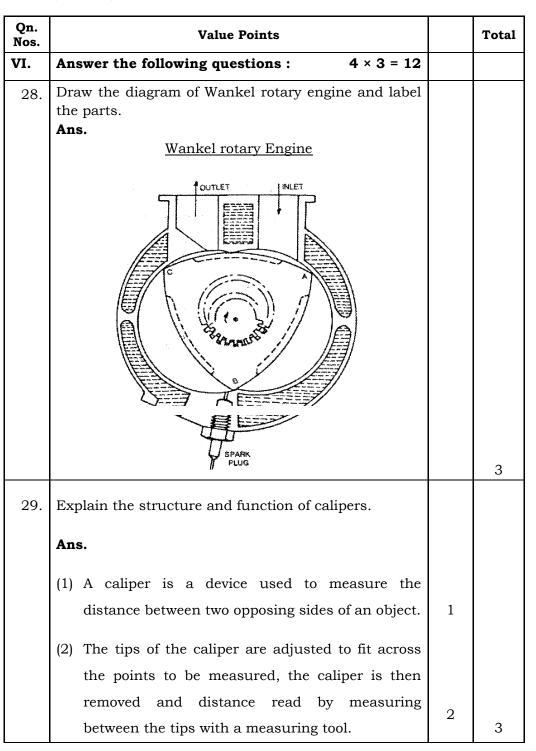
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Qn. Nos.	Value Points		Total
21.	Mention any two top-10 innovations.		
	Ans.		
	1. Antilock braking system	17	
	2. Air bag advancement	1/2	
	3. Electronic stability system	1⁄2	
	4. DVD player. (any two)		1
V.	Answer the following questions : $6 \times 2 = 12$		
22.	List the functions of Alternator.		
	Ans.		
	1. If produces alternating current when the engine is running	1	
	2. It also converts alternating current into direct		
	current.	1	2
	OR		
	List the types of stub axles.		
	Ans.		
	Different types of stub axles :	1/2	
	1. Elliot type		
	2. Reverse Elliot type	1/2	
	3. Lamoine type	1/2	
	4. Reverse Lamoine type	1⁄2	2
23.	Explain bottoming in suspension system.		
	Ans.		
	When a vehicle is overloaded, it causes greater		
	deflection in the spring than the normal specified values, the result is lowering down of the whole		
	values, the result is lowering down of the whole vehicle. This is called bottoming.		2
	OR		
	Explain any two principles of suspension system.		
	Ans.		
	✤ To restrict the road vibrations from being		
	transmitted to the various components of the vehicle.		
	 To protect the passengers from road shocks. 		
	 To maintain the stability of the vehicle in pitching 		
	and rolling.		2

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Qn. Nos.	Value Points		Total
24.	Draw the diagram of hammer.		
	Ans.		
	Hammer		2
25.	Two post lifts are helpful for servicing a vehicle.		
	How ?		
	Ans.		
	1. It is used for lifting an automobile vehicle and to		
	carry out the work under the chassis.	1	
	2. If consists of two columns and screws are fitted		
	in each column.	1	2
26.	Coolant of a vehicle should be changed at regular intervals. Why?		
	Ans.		
	Coolant is important for vehicle to prevent its over-		
	heating and maintain the constant engine operating temperature.		2
27.	Mention the four important aspects of customer care.		
	Ans.		
	Aspects		
	1. Know your product	1/2	
	2. Body Language	1/2	
	3. Anticipate Guest needs	1/2	
	4. Feel good factor	$\frac{1}{2}$	2

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Qn. Nos.	Value Points		Total
30.	Explain "Know your product" with respect to		
	customer sales care.		
	Ans.		
	Know what product/service you are offering, in other		
	word, be an information expert. It is okay to say, 'I		
	don't know, but it should always be followed up by		
	'but let me find out "(or) possibly' but my friend		
	knows" whatever the situation may be "make sure		
	that you don't leave your customer with an		
	unanswered question.		3
31.	Explain tyre pressure monitoring system in vehicle		
	safety technology.		
	Ans.		
	1. Tyre pressure monitoring system provides the		
	latest and greatest technology for eliminating low		
	tyre pressure on our cars	2	
	2. It can also alert us in seconds to a flat tyre.	1	3
	OR		
	Explain sensitive air bag system related to vehicle		
	safety technology.		
	Ans.		
	This technology may even be able to detect that an		
	individual is not wearing a seat belt (or) that he (or)		
	she is positioned abnormally in the seat and		
	compensate that air bag deployment to accommodate		
	this.		3

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Qn. Nos.	Value Points		Total
VII.	Answer the following questions : $3 \times 4 = 12$		
32.	Write the requirements of a propeller shaft in a vehicle.		
	Ans.		
33.	 (1) High torsional strength (2) Toughened (3) Hardened (4) Efficiently welded (5) Dynamically balanced (6) Least stress concentration (7) Reduced frost load (8) Higher fatigue life Draw the diagram of screw gauge and label the parts. Ans. Screw Gauge 	1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	4
	Anvil Spindle Sleeve With Thimble Ratchet Stop Wenier Graduations Measuring Faces Spindle Lock Frame Diagram-3 Parts-1		4
	OR		

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Qn. Nos.	Value Points		Total
	Draw the diagram of fly wheel puller. Ans.		
	Handle Thread Diagram 2		
	Diagram-5		4
34.	Fly wheel pullerParts-1Mention the steps that you follow while changing the		
01.	oil filter of a vehicle.		
	Ans.		
	1. Prepare your car		
	2. Unscrew oil cap	1/2	
	3. Locate the oil drain plug	1/2	
	4. Place the container	1/2	
	5. Drain out the old oil	$\frac{1}{2}$	
	6. Locate the oil filter	$1/_{2}$	
	7. Remove the old oil filter	$\frac{1}{2}$	
	8. Prepare new filter		
	9. Install the new filter	1/2	
	10. Fill up with oil	1/2	
	11. Check the level is correct		
	12. Clear up		
	13. Proper dispose of the old oil and filter.(any <i>eight</i>) OR		4

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12

Qn. Nos.	Value Points		Total
	Mention the steps that you follow while changing the		
	air filter of a vehicle.		
	Ans.		
	1. Obtain correct replacement filter	1/2	
	2. Secure the vehicle	$\frac{1}{2}$	
	3. Open the bonnet	1/2	
	4. Locate the air filter	$\frac{1}{2}$	
	5. Remove the air filter cover	1/2	
	6. Take out the air filter'	$\frac{1}{2}$	
	7. Clean the air filter housing	1⁄2	
	8. Replace the filter	1⁄2	4

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