

**CCE RF**

**NSQF LEVEL-2**

**KARNATAKA SECONDARY EDUCATION EXAMINATION BOARD, MALLESWARAM,  
BANGALORE - 560 003**

**NSQF LEVEL-2 EXAMINATION, MARCH/APRIL, 2017**

**MODEL ANSWERS**

Date : 10. 04. 2017 ]

CODE NO. : **88-EK**

**Subject : Automobile**

( English Version )

( Regular Fresh )

[ Max. Marks : 60

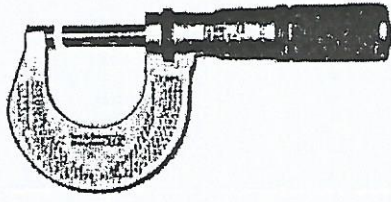
<b>Qn. Nos.</b>	<b>Value Points</b>	<b>Total</b>
I. 1.	C — metal	1
2.	A — consists of 4 wheels out of which 2 wheels are the driving wheels	1
3.	B — Non-rubber coupling	1
4.	C — cooling the engine	1
5.	D — vegetable oil	1
6.	C — 12 volt <i>dc</i> to 22,000 volts <i>dc</i>	1
7.	D — two years	1
8.	A — Drain plug socket wrench	1
9.	B — Dip stick	1
10.	D — water.	1

**RF-OK1052**

[ Turn over

Qn. Nos.	Value Points		Total
II. 11.	structural		1
12.	circular		1
13.	lubrication		1
14.	excess heat.		1
III. 15.	i) f) — Measure voltage current and resistance.		1
	ii) b) — Measures the working speed of engine.		1
	iii) d) — Measures the specific gravity.		1
	iv) g) — Measures small distance preciously.		1
IV. 16.	i) Viscosity	$\frac{1}{2}$	1
	ii) Physical stability	$\frac{1}{2}$	
	iii) Chemical stability		
	iv) Resistance against corrosion		
	v) Pour point		
	vi) Flash point		
	vii) Cleanliness.		
17.	Heat engine is a device in which heat energy is converted into mechanical energy.		1
18.	i) Used when a softer blow is required	$\frac{1}{2}$	1
	ii) Used to form sheet metal	$\frac{1}{2}$	
	iii) They don't leave marks.		
19.	<i>Wheel balance helps :</i>		1
	i) minimizing tyre vibration and bounce	$\frac{1}{2}$	
	ii) steering control improves	$\frac{1}{2}$	
	iii) improve the life of tyre.		

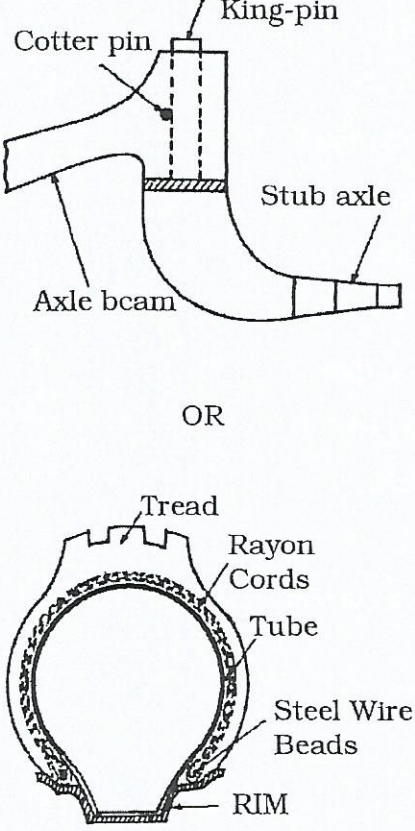


Qn. Nos.	Value Points		Total
20.	i) Protect rollover ii) Cushion knee iii) Determine the severity of impact.	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	1
21.	Chevys 93 Corvette featured general motors.		1
V. 22.	i) lighter and cooler ii) retain air for a long period even after puncture by nail iii) repaired simply by rubber plugging iv) it can be retreated in the same manner as the tube tyre. OR i) produces alternating current when the engine is running ii) converts AC into DC with rectifiers iii) it is the source of electricity when the automobile is running iv) charges the battery.	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$  $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	2        2
23.	T.D.C. = Top Dead Centre B.D.C. = Bottom Dead Centre B.H.P. = Brake Horse Power I.H.P. = Indicated Horse Power. OR i) Sliding mesh gear box ii) Constant mesh gear box iii) Synchromesh gear box without overdrive iv) Synchromesh gear box with overdrive.	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$  $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	2        2
24.			2

Qn. Nos.	Value Points		Total
25.	i) Wear old clothes ii) Wash one side at a time iii) Wet and wring out clothes before dry iv) Do not use detergent v) Use car wash soap only.	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	2
26.	This technology responds as soon as the driver puts on the turn signal preventing a collision caused by the driver's blind spot.		2
27.	Always look for ways to serve customer more than they expect; in doing so it helps them to know that care and leave them with the feel good factor.		2
VI. 28.	Sprung weight carries : i) Weight of vehicle frame ii) Weight of body iii) Weight of engine iv) Transmission. <div style="display: inline-block; vertical-align: middle; margin-left: 20px;">             }              Sprung weights           </div> <i>Un-sprung weight carries :</i> Parts of an automobile fitted between suspension system and the road surface and not supported by the suspension system. Ex. i) rear axle assembly ii) wheels iii) tyres iv) brakes etc.	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$  $\frac{1}{2}$ $\frac{1}{2}$  $\frac{1}{2}$	3





Gn. Nos.	Value Points		Total
31.	i) Assist customers ii) Sells/leases delivery vehicles iii) Explain product performance iv) Follow dealership procedure v) Attend product & sales training vi) Offers test drive and other relevant answers.	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	3
VII. 32.	 <p>The diagram shows two parts. The top part is a cross-section of a stub axle assembly with labels: King-pin, Cotter pin, Axle beam, and Stub axle. The bottom part is a cross-section of a tire with labels: Tread, Rayon Cords, Tube, Steel Wire Beads, and RIM. The word 'OR' is centered between the two diagrams.</p>	Sketch  Parts $\frac{1}{2} +$ $\frac{1}{2}$	3  1
33.	<u>Pneumatic wrenches :</u> i) Made from premier quality raw material ii) Used for accuracy and easy operations iii) Used in power plants, mining & cement and railway industries iv) Used where accurate torque is required.	1 1 1 1	4



Qn. Nos.	Value Points		Total
34.	i) The car should be on a level surface ii) Parking brake should be on iii) Leaving the oil for few minutes iv) Jack it up and use jack stands to support v) Put something underneath the engine to prevent spilling oil into the ground.	1 1 1 1 1	4