

Government of Karnataka

Karnataka Secondary Education Examination Board

Question Paper

ANSWER KEY

A

CCE RF
Revised Syllabus

NSQF LEVEL-2

KARNATAKA SCHOOL EXAMINATION AND ASSESSMENT BOARD,
MALLESHWARAM, BENGALURU – 560 003
NSQF LEVEL-2, MARCH/APRIL 2025 EXAMINATION-1

MODEL ANSWERS

Date : 04. 04. 2025] **CODE NO. : 88-EK**

Subject : Automobile

(English Medium)
(Regular Fresh)

[Max. Marks : 60

Qn. Nos.	Value Points	Total	
	PART-A		
I.	***Four* alternatives are given for each of the following questions / incomplete statements. Choose the correct alternative and write the complete answer along with its question number and alphabet :** **3 × 1 = 3**		
1.	"Sham bought a pen; he has a great pen collection." The pronoun in this sentence is (A) Sham (B) bought (C) he (D) has **Ans.** (C) he		1
2.	Ravi works hard to get the best student award at the end of the year. What type of motivation is this ? (A) Internal (B) External (C) Emotional skill (D) Overconfident **Ans.** (B) External		1

Qn. Nos.	Value Points	Total	
3.	The valid file extension for notepad file is		
	(A) .jpg (B) .doc		
	(C) .text (D) .txt		
	Ans. (D) .txt		1
II.	**Answer the following questions :** **2 × 1 = 2**		
4.	Why is enter key used in the computer ?		
	Ans.		
	It is the one of the most important functional key in the computer to move the cursor to the beginning to a new line.		1
5.	Write any two basic ways in which people can help for sustainable development of goals.		
	Ans.		
	i) Quality education	½	
	ii) Clean water and sanitation	½	
	iii) Affordable and clean energy		
	iv) Reduce inequalities. (Any *two*)		1
III.	**Answer the following questions :** **2 × 2 = 4**		
6.	What is time management ?		
	Ans.		
	Time management is the ability to plan and control, how you spend the hours of your day well and do all that you want to do.		2
	OR		

Qn. Nos.	Value Points	Total	
	How do you find your weakness ? **Ans.** i) Point out the areas, where you struggle and the things you find difficult to do. 1 ii) Be open to feedback and accept your weakness without feeling low. 1 iii) Look at the feedback others usually give you. (any *two*)		2
7.	Mention four qualities which should have to become a successful entrepreneur. **Ans.** i) He/she must believe in her/him-self ii) She/he should be confident and take business decision. ½ iii) If the idea did not work but it is okay then keep trying new ideas. ½ iv) Running his/her business is difficult but he/she is patient because he/she knows success will come soon. ½ v) He/she gives a creative and different solution to the problem that is why she/he is successful.		2
IV.	**Answer the following question : 1 × 3 = 3**		
8.	Explain the meaning of verbal communication. Write its advantages and disadvantages. **Ans.** Verbal communication includes sounds, words, language and speech speaking is one of the most effective and commonly used way of communicating. 1 <u>Advantages</u> : ❖ It is an easy mode of communication in which you can exchange ideas by saying what you want and get a quick response. 1 ❖ Verbal communication also enables you to keep changing your interaction as per the other person's response. 1 <u>Disadvantages</u> : ❖ It depends on written or spoken, words, sometimes the meaning can be confusing and difficult to understand, if the right words are not used.		3

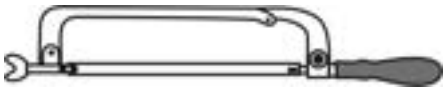
Qn. Nos.	Value Points	Total
	PART-B	
V.	***Four* alternatives are given for each of the following questions / incomplete statements. Choose the correct alternative and write the complete answer along with its question number and alphabet :** **7 × 1 = 7**	
9.	The unit used to ignite the fuel in the petrol engine is (A) Spark plug (B) Carburetor (C) Push rod (D) Radiator **Ans.** (A) Spark plug	1
10.	Observe the analogy and answer : Vegetable oil : liquid lubricant : : Grease : ..... . (A) Semi-solid lubricant (B) Gas lubricant (C) Solid lubricant (D) Emulsion **Ans.** (A) Semi-solid lubricant	1
11.	The equipment that helps to lift the vehicle and to carry out the work under the chassis is (A) Pneumatic wrench (B) Air compressor (C) Two-post lift (D) Wheel balancer **Ans.** (C) Two-post lift	1
12.	The fuel filter is clogged in a vehicle. It (A) Makes more fuel to flow inside the cylinder (B) Reduces the fuel pressure (C) Increases the fuel pressure (D) Allows more air enter into the engine **Ans.** (B) Reduces the fuel pressure	1

Qn. Nos.	Value Points	Total
13.	Which of the following is NOT a part of cooling system ?	
	(A) Radiator (B) Thermostat	
	(C) Cooling fan (D) Bonnet	
	Ans. (D) Bonnet	1
14.	A stub axle is used for	
	(A) Rotating the wheel (B) Opening the nut	
	(C) Tightening the bolt (D) Folding the nut	
	Ans. (A) Rotating the wheel	1
15.	The device that avoids the flow of current from battery to the alternator is	
	(A) Voltage regulator (B) Spark plug	
	(C) Cut-out unit (D) Ignition coil	
	Ans. (C) Cut-out unit	1
VI.	**Fill in the blanks with suitable answer : 4 × 1 = 4**	
16.	Now a days the gear used to final drive is	
	Ans.	
	Hyped gears	1
17.	The tube and tubeless tyres are called ..... tyres.	
	Ans.	
	Pneumatic	1
18.	Mallet is made up of	
	Ans.	
	Wood	1
19.	In general the coolant is changed in a vehicle ..... year once.	
	Ans.	
	two	1

Qn. Nos.	Value Points	Total	
VII.	**Uses of automobile tools are given in Column-A and automobile tools are given in Column-B. Match them and write the answer along with its letter of alphabet : 4 × 1 = 4**		
20.			

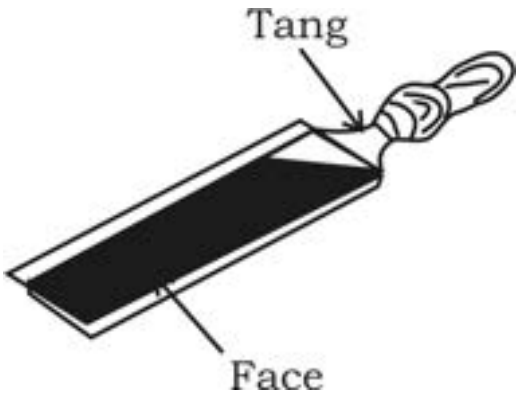
Column-A	Column-B
i) To measure voltage, current and resistance	a) Wheel balancer
ii) To measure specific gravity	b) Screw gauge
iii) To measure very small distance precisely	c) Air compressor
iv) To measure distance between two opposite sides	d) Multimeter
	e) Wrenches
	f) Hydrometer
	g) Calipers

	Ans :			
	i)	d)	Multimeter	1
	ii)	f)	Hydrometer	1
	iii)	b)	Screw gauge	1
	iv)	g)	Calipers	1 4
VIII.	**Answer the following questions : 4 × 1 = 4**			
21.	Mention the types of automobile engines based on the cycles of operation.			
	Ans.			
	1. Auto cycle			1
	2. Diesel cycle			1
22.	Define viscosity of an oil.			
	Ans.			
	"Viscosity is the property of liquid, which resist to the lubricating oil".			1

Qn. Nos.	Value Points	Total	
23.	Mention any two hand instruments.		
	Ans.		
	1. Spanner		
	2. Wrench	½	
	3. Bench vice. (any *two*)	½	1
24.	In night vision assist technology thermal imaging cameras are used. Why ?		
	Ans.		
	To find or spot animals, pedestrians and other vehicle at night.		1
IX.	**Answer the following questions : 4 × 2 = 8**		
25.	Write a short note on Air compressor.		
	Ans.		
	Air compressor machine which is used to increase the pressure of air by reducing its volume. They have two types	1	
	1. Rotary screw air compressor		
	2. Reciprocating air compressor	1	2
26.	Draw the diagram of "hand hacksaw".		
	Ans.		
			
	Diagram- 2		2
27.	List the steps to be followed while changing the air filter of a vehicle.		
	Ans.		
	i) Prepare the vehicle	½	
	ii) Locate the old air filter	½	
	iii) Remove the cover	½	
	iv) Clean the air filter housing	½	
	v) Insert the new air filter and close the cover.		2

Qn. Nos.	Value Points	Total	
28.	Explain the "sensitive air bag system" in a vehicle safety system.		
	Ans.		
	The system sense the difference in the size and weight of the occupants and deploys the air bag. It detect the even be able to individually.	½ ½ ½ ½	2
	OR		
	Explain the "Blind spot detection" in a vehicle safety system.		
	Ans.:		
	This system alerting us to make a turn and an object or car is in our blind spot. This technology responds as soon as the driver puts the signals.		2
X.	**Answer the following questions : 3 × 3 = 9**		
29.	Write any four advantages of a battery.		
	Ans.		
	i) It is an electrochemical device		
	ii) It stores the electric energy in the form of chemical energy.	1	
	iii) It supplies the electric current to whole vehicle.	1	
	iv) It operates all the systems in a vehicle.	1	
	(Any *three*)		3
30.	List the important aspects of customer service.		
	Ans.		
	i) Feel good factor		
	ii) Know your product		
	iii) Body Language	1	
	iv) Communication	1	
	v) Anticipate guest needs (Any *three*)	1	3
	OR		

Qn. Nos.	Value Points	Total	
	List any six duties performed by the automobile salesperson.		
	Ans.:		
	i) Sells a minimum number of vehicle		
	ii) Explains fully about product		
	iii) Offers test drives to all		
	iv) Assists customers in selecting vehicle		
	v) Attends sales meetings		
	vi) Schedules first service appointment.		
	(any *six* related)		3
31.	Soaps and detergents should not be used while washing vehicles. Why ?		
	Ans.		
	Do not use detergent, dish soap. Soap is designed for dishes, it damages the car paint and the paint is getting dim. So use only the car soap.		3
XI.	**Answer the following questions : 3 × 4 = 12**		
32.	Write the main functions of front axle of a vehicle.		
	Ans.		
	i) It carries the weight of the front of the vehicle	1	
	ii) It carries stub axle	1	
	iii) It controls the ride	1	
	iv) It carries various systems like braking system etc.	1	4

Qn. Nos.	Value Points	Total	
33.	Draw the diagram of file and label the following parts : i) Face ii) Tang **Ans.**  Diagram-3 Parts-1		4
	OR Draw the diagram of hammer and label the following parts : i) Handle ii) Face **Ans.**  Diagram-3 Parts-1		4

Qn. Nos.	Value Points	Total	
34.	Explain the procedure for washing a vehicle manually.		
	Ans.		
	i) Park the vehicle on ground level		
	ii) Engine off and brake on	½	
	iii) Take a bucket of clean water	½	
	iv) Apply the car soap or shampoo and steer well	½	
	v) Apply the car soap from roof to downwards	½	
	vi) Now apply the clean water from roof to downwards	½ ½	
	vii) Clean the side walls of tyre using plastic brush and apply the clean water	½ ½	
	viii) Using dry cloth wipe the car from roof to down-wards		
	ix) Clean the glass and windows using Newspaper.		4
	OR		
	Explain the procedure for changing the coolant of a vehicle.		
	Ans.:		
	i) Prepare the vehicle	½	
	ii) Locate the radiator and place the pan	½	
	iii) Remove the drain plug and leave to drain out	½	
	iv) Insert the drain plug	½	
	v) Locate the filler cap	½	
	vi) Insert the New coolant using funnel.	½	
	vii) Check for leakages and ensure the level of coolant	½ ½	
	viii) Run the engine and check.		4

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