

**B**

SL. No. : CCC

34 ]

8

Total No. of Questions : 34 ]

[ Total No. of Printed Pages : 8

: 88-EK

**CCE RF**  
**CCE RR**  
Revised & Unrevised

Code No. : 88-EK

**NSQF LEVEL-2****Subject : Automobile**

○ / Kannada and English Versions)

( &amp; / Regular Fresh &amp; Regular Repeater)

04. 04. 2019 ]

[ Date : 04. 04. 2019

ಇಂ 9-30 ಇಂ 11-45 ]

[ Time : 9-30 A.M. to 11-45 A.M.

60 ]

[ Max. Marks : 60

**General Instructions to the Candidate :**

1. ಈ 34

This Question Paper consists of 34 objective and subjective types of question.

2.

This question paper has been sealed by reverse jacket. You have to cut on the right side to open the paper at the time of commencement of the examination. Check whether all the pages of the question paper are intact.

3.

Follow the instructions given against both the objective and subjective types of questions.

4.

೨೦

Figures in the right hand margin indicate maximum marks for the question.

5.

15

The maximum time to answer the paper is given at the top of the question paper. It includes 15 minutes for reading the question paper.

**RF & RR (B) - 403**

[ Turn over

TEAR HERE TO OPEN THE QUESTION PAPER

Tear here

I.

:

 $10 \times 1 = 10$ 

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 :

1.

(A) (B)

(C) (D)

The actual power delivered at the crankshaft is

(A) brake horsepower (B) indicated horsepower

(C) friction horsepower (D) horsepower

2.

(A) (B)

(C) (D)

Resistance of the lubricating oil to flow is

(A) resistance against corrosion (B) physical stability

(C) flash point (D) viscosity

3.

(A) (B)

(C) (D)

The initial curvature provided in a leaf spring is called

(A) dipping (B) yawing

(C) pitching (D) spring camber

4.  $6 \times 2$ 

(A) 6 6

(B) 6 2

(C) 12 6

(D) 2 2

 $6 \times 2$  drive chassis vehicle means

(A) consists of 6 wheels out of which 6 wheels are the driving wheels

(B) consists of 6 wheels out of which 2 wheels are the driving wheels

(C) consists of 12 wheels out of which 6 wheels are driving wheels

(D) consists of 2 wheels out of which 2 wheels are driving wheels

5.

7

- (A) (B)  
(C) (D)

A stub axle is used for

- (A) tightening the bolt (B) opening the nut  
(C) rotating wheel (D) folding the nut

6.

- (A) (B)  
(C) (D)

The colour of the fog lamp is

- (A) amber (B) green  
(C) red (D) white

7.

- (A) (B)  
(C) (D)

Mallet is made of

- (A) iron (B) wood  
(C) steel (D) aluminium

8.

- (A) (B)  
(C) (D)

Thermal imaging cameras are used in the following innovations of car safety technology

- (A) Night vision assist (B) Sensitive air bag system  
(C) Blind spot detection (D) Rollover prevention

9.

- (A) 50,000 km
- (B) 60,000 km
- (C) 30,000 km
- (D) 20,000 km

Change of air filter is generally recommended when a vehicle travels a distance of

- (A) 50,000 km
- (B) 60,000 km
- (C) 30,000 km
- (D) 20,000 km

10.

2

/

- (A)
- (B)
- (C)
- (D)

The material(s)/tool which is/are NOT used for changing the engine oil and oil filter is/are

- (A) engine oil
- (B) paper, towel and a rag
- (C) carjack and stand
- (D) coolant.

II.

4 × 1 = 4

Fill in the blanks with suitable answer :

11. ....

The instrument used to measure the specific gravity is .....

12. ....

The brake is a ..... creating device which causes speed reduction of the vehicle.

13. ....

The tubeless and tube tyres are called ..... tyres.

14. ....

The first company to introduce passive keyless entry system in vehicle is .....

III. 15. A-

B-

4 × 1 = 4

Automobile service tools are given in **Column-A** and their uses are given in **Column-B**. Match them :

<b>A- Column-A</b>	<b>B- Column-B</b>
i) Chisel	a) removes sharp edges
ii) Snips	b) for lubrication
iii) Punch	c) cuts metals
iv) File	d) cuts sheet metals
	e) for softer blows
	f) holds small object
	g) drives objects

IV.

6 × 1 = 6

Answer the following questions :

16.

Classify the lubricants on the basis of their state.

17.

Write the functions of an alternator.

18.

Ball-peen hammer is called an engineer's hammer. Why ?

19.

Mention the uses of grinding machine.

20.

Mention the uses of the following electrical tools :

i)

Tachometer

ii)

Multimeter

21.

Changing of engine oil is important. Why ?

V.

6 × 2 = 12

Answer the following questions :

22.

Explain the following technical terms used in engine :

a)

Top dead centre

b)

Stroke

**/OR**

Explain the following technical terms used in engine :

a)

Compression ratio

b)

Clearance volume

23.

Write a short note on liquid cooling.

**/OR**

Write a short note on pressure sealed cooling.

24.

Draw the diagram of channel section frame and box section frame.

25.

Write precautions to be taken during washing a vehicle.

26.

List the important aspects of customer service.

27.

Explain blind spot detection.

**RF & RR (B) - 403**

VI.

4 × 3 = 12

Answer the following questions :

28.

Differentiate between universal clutch holding tool and flywheel puller.

**/OR**

29. Differentiate between outside calipers and inside calipers.

?

30.

How to prepare your car for changing the engine oil ?

31.

Explain the functions of air filter.

32.

List any six duties performed by the automobile sales person.

VII.

3 × 4 = 12

Answer the following questions :

32.

Explain the following automobile service workshop equipment :

a)

Reciprocating air compressor

b)

Wheel balancer

**/OR**

3

33. Suggest the tips while handling and maintaining general tools.

ಕೆಲ

34.

Draw the diagram of battery case and label the parts.

**/OR**

34. Draw the diagram of Elliot type stub axle and label the parts.

35.

What are the steps to be followed for changing the air filter ?

