

**071603T4AUT**

**AUTOMOTIVE MECHANIC LEVEL 3**

**ENG/OS/AUT/CR/2/3/A**

**PERFORM VEHICLE PREVENTIVE MAINTENANCE**

**July/Aug 2023**



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION  
COUNCIL (TVET CDACC)**

**WRITTEN ASSESSMENT**

**Time: 2 Hours**

**INSTRUCTIONS TO CANDIDATE:**

1. This paper consists of **TWO** sections: **A** and **B**.
2. Attempt **ALL** the questions in both sections.
3. Marks for each question are indicated in the brackets.
4. You are provided with a separate answer booklet.

**This paper consists of SEVEN (7) printed pages**

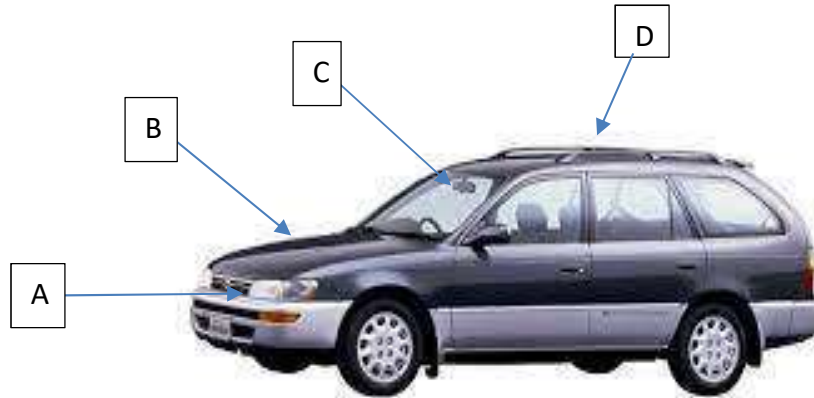
**Candidates should check the question paper to ascertain that all pages  
are printed as indicated and that no questions are missing**

Turn over

**SECTION A: (20 MARKS)***Attempt ALL questions in this section***Matching response questions**

1. Match correctly the following parts of the car labeled below.

(4 Marks)



| PART | NAME |                   |
|------|------|-------------------|
| A    | a    | Roof              |
| B    | b    | Windshield/screen |
| C    | c    | Front bumper      |
| D    | d    | Bonnet            |

**True or false Questions**

2. Routine or daily maintenance includes the following checks and remedies; Amount of fuel in the tank, oil level in the crankcase and level of coolant.

a) True

b) False

(1 Mark)

3. The following are components/ parts of vehicle cooling system; radiator, cooling fan, water pump, radiator/pressure cap.

a) True

b) False

(1 Mark)

4. The engine should be cold when checking oil level in a vehicle.  
a) True  
b) False (1 Mark)
5. Vehicle bumpers and grills are mostly made from steel.  
a) True  
b) False (1 Mark)
6. When the level of lead acid battery is low, the battery should be topped up with clean distilled water  
a) True  
b) False
7. Ignition coil transform and increase the battery voltage in ignition system  
a) True  
b) False (1 Mark)

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**Multiple Choice Questions**

8. The information given by tire marking 185R 380 is: (1 Mark)  
A. Rayon tire of width 185mm and rim diameter of 380mm  
B. Rayon tire of width 380mm and rim radius of 185mm  
C. Radial ply tire of width 185mm and rim diameter of 380mm  
D. Radial ply tire of width 380mm and rim diameter of 185mm
9. Which of the following is not a type of air filter (1 Mark)  
A. Oil-bath type  
B. Paper element type(dry)  
C. Oil-wetted wire mesh air cleaner  
D. Submerged type air cleaner.

10. Name the term used to describe the series of units between the engine and road wheels. (1 Mark)
- A. Transmission
  - B. Suspension
  - C. Final drive
  - D. Power unit
11. Oil level should be between the \_\_\_\_\_ and \_\_\_\_\_ marks on the dipstick. (2 Marks)
- A. Add
  - B. full
  - C. add low, full
  - D. don't know where the dip stick is.
12. Preventive maintenance consists of the following actions. Except, (1Mark)
- A. Replacement of components
  - B. Repair of components
  - C. Service of components
  - D. Breakdown of components.
13. Which of the following is not a component of the dashboard? (1 Mark)
- A. Air conditioning system
  - B. Temperature gauge
  - C. Oil pressure gauge
  - D. Gear selector lever
14. It is recommended that handling of brake fluid be observed when performing body service. The effect of spilling fluid on the paint work of a car would be \_\_\_\_ (1 Mark)
- A. Act as a rust preventive
  - B. Improve the gloss finish
  - C. Aerate the spilled fluid
  - D. Damage the paint

15. Paint reduces corrosion of steel body panel by: (1 Mark)

- A. Giving a service which can be polished
- B. Smoothing the porous surfaces which trap water
- C. Acting as a barrier between air and the steel
- D. Causing a flow of electricity between steel and body parts

16. Drive belts are inspected of the following; (1 Mark)

- A. Cracks
- B. Fraying and glazing on the sides
- C. Splits on the top cover
- D. All the above

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**SECTION B (30 MARKS)**

*Attempt ALL questions in this section*

17. State the various types of fluids used in the following vehicle parts. (4 Marks)
- a) Steering gearbox
  - b) Final drive
  - c) Wheel and tires
  - d) Radiator
18. State **three** maintenance practices carried out on vehicle body to increase its lifespan. (3 Marks)
19. Give **two** functions of each of the following motor vehicle parts. (8 Marks)
- a) Windscreen/shield.
  - b) Radiator
  - c) Battery.
  - d) Alternator.
20. When a pneumatic tyre runs flat there are ways of going about this. State **three** methods of a tire puncture repair. (3 Marks)
21. Maintenance in automotive workshop is a very essential practice. List any **three** motor vehicle maintenance schedule (3 Marks)
22. Highlight **two** maintenance practices carried out in motor vehicle battery. (2 Marks)
23. Give the function of the windscreen wipers in the vehicle. (2 Marks)
24. State **two** routine services, carried out on spark plug (2 Marks)
- .

25. The radiator cap is very important component of the cooling system. Name any **two** of its functions;

(2 Marks)

26. Cooling fan in vehicle improves cooling of liquid from the engine. They are broadly categorised into **two** namely;

(1 Mark)

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