

SC 6131
 WASSCE (SC) 2023
 AUTO MECHANICAL
 WORK 1
 Objective Test
 45 minutes

1

Name:.....

Index Number:.....

THE WEST AFRICAN EXAMINATIONS COUNCIL
 West African Senior School Certificate Examination (WASSCE)
 for School Candidates, 2023

SC 2023

AUTO MECHANICAL WORK 1
 OBJECTIVE TEST

45 Minutes

Do not open this booklet until you are told to do so. While you are waiting, write your name and index number in the spaces provided at the top right-hand corner of this booklet and thereafter, read the following instructions carefully.

- Use HB pencil throughout.
- If you have got a blank answer sheet, complete its top section as follows.
 - In the space marked *Name*, write in capital letters your surname followed by your other names.
 - In the spaces marked *Examination, Year, Subject and Paper*, write 'WASSCE (SC)', '2023' 'AUTO MECHANICAL WORK' and '1' respectively.
 - In the box marked *Index Number*, write your index number vertically in the spaces on the left-hand side. There are numbered spaces in line with each digit. Shade carefully the space with the same number as each digit.
 - In the box marked *Paper Code*, write the digits 613113 in the spaces on the left-hand side. Shade the corresponding numbered spaces in the same way as for your index number.
 - In the box marked *Sex*, shade the space marked M if you are male, or F if you are female.
- If you have got a pre-printed answer sheet, check that the details are correctly printed, as described in 2 above. In the boxes marked *Index Number, Paper Code and Sex*, resshade each of the shaded spaces.
- An example is given below. This is for a male candidate whose name is Chinedu Oladapo DIKKO, whose index number is 4251102068 and who is offering Auto Mechanical Work 1.

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PRINT IN BLOCK LETTERS

Name: DIKKO CHINEDU OLADAPO Examination: WASSCE (SC) Year: 2023

Subject: AUTO MECHANICAL WORK Paper: 1

INDEX NUMBER	
4	0 1 2 3 4 5 6 7 8 9
2	0 1 2 3 4 5 6 7 8 9
5	0 1 2 3 4 5 6 7 8 9
1	0 1 2 3 4 5 6 7 8 9
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8	0 1 2 3 4 5 6 7 8 9

For Supervisors only.
If candidate is absent shade

PAPER CODE	
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SEX	
Indicate your sex by shading the space marked M (for Male) or F (for Female) in this box:	M <input type="checkbox"/> F <input type="checkbox"/>

INSTRUCTIONS TO CANDIDATES
 1. Use grade HB pencil throughout.

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Answer **all** the questions.

Each question is followed by **four** options lettered A to D. Find the **correct** option for **each** question and **shade in pencil** on your answer sheet, the answer space which bears the same letter as the option you have chosen. Give only **one** answer to **each** question.

An example is given below

An example of rear-engine rear-wheel drive vehicle is

- A. Volkswagen Beetle
- B. Toyota Camry
- C. trailer.
- D. pickup

The correct answer is Volkswagen, which is lettered A, and therefore answer space D would be shaded.

A [B] [C] [D]

Think carefully before you shade the answer spaces; erase completely any answer(s) you wish to change.

Do **all** rough work on this question paper.
Now answer the following questions.

1. Taps are used for
 - A. making internal threads.
 - B. making round holes in metals.
 - C. cutting sheet metals.
 - D. driving rails into metals sheets.
2. The instrument used to measure **both** internal and external diameters of open cylinders is
 - A. outside calipers.
 - B. inside calipers.
 - C. Micrometer gauge.
 - D. telescopic gauge.
3. One merit of torque wrench that it
 - A. gives desired torque.
 - B. can also be used to measure thread angle.
 - C. does not require corrective maintenance.
 - D. does not require external power.
4. One example of corrective maintenance is
 - A. reinforcement of chassis frames.
 - B. replacement of broken piston ring.
 - C. cleaning of used tools-
 - D. separation of aluminum tools from sleet tools.
5. Another name for conventional *vehicle layout* is
 - A. rear-engine rear-wheel-drive
 - B. front-engine rear-wheel drive
 - C. front-engine front-wheel drive
 - D. four-wheel drive,

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6. The **peculiar** attribute of a four-wheel drive is the
- A. presence of four wheels in a vehicle
 - B. similarity of tyre across the four
 - C. presence of four propellers shall in vehicle
 - D. even distribution of torque across for when
7. The type of vehicle layout that makes use of **one** propeller shaft is
- A. rear-engine rear-wheel drive.
 - B. front-engine front-wheel drive.
 - C. four-wheel drive.
 - D. front-engine rear-wheel drive.
8. The power developed inside the engine cylinder is called
- A. cycle power.
 - B. braking power
 - C. indicated power.
 - D. frictional power.
9. The motion of the cam is transferred to the valve through
- A. piston.
 - B. rocker arm.
 - C. camshaft pulley.
 - D. valve stem
10. The big end of the connecting rod of an engine is connected to
- A. main bearing journal
 - B. crankshaft
 - C. crankpin
 - D. gudgeon pin
11. How many times does sparking of spark plug occur in a cycle of operation for a 4-stroke spark-ignition engine?
- A. Once
 - B. Twice
 - C. Three times
 - D. Four times
12. One feature of propeller shaft is
- A. sun gear.
 - B. universal joint.
 - C. constant velocity joint.
 - D. knuckle joint
13. Suspension springs are held to the axle by means of
- A. centre bolt,
 - B. cotter pins.
 - C. U-bolt
 - D. circlip

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Use the sketch in **Fig 1** to answer questions **14** to **17**.

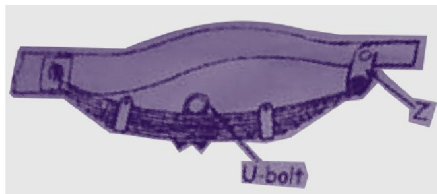


Fig 1: Suspension spring

14. The type of suspension spring shown is called
 - A. leaf spring.
 - B. torsion spring.
 - C. coil spring.
 - D. lowering spring.
15. The part labeled Z is
 - A. swinging shackle.
 - B. master leaf.
 - C. rubber bush.
 - D. axle beam.
16. One example of vehicles that use this type of suspension spring is
 - A. truck.
 - B. sports car.
 - C. motorcycle.
 - D. tricycle.
17. One advantage of this type of suspension spring over other types is that, it
 - A. produces less vibration during braking.
 - B. is easier to be installed?
 - C. is less prone to sagging
 - D. has the higher load suspending ability.
18. Which of the following parts is **not** a member of independent suspension system?
 - A. Coil spring
 - B. Ball joint
 - C. Swinging shackle
 - D. Damper
19. The Ackerman principle is applicable in
 - A. ensuring centre-point steering.
 - B. fastening stub axle to beam.
 - C. securing stub axle to beam.
 - D. ensuring smooth ride when cornering.
20. One merit of a power-assisted steering is that, it
 - A. ensures smooth ride.
 - B. reduces the weight of the steering system.
 - C. does not require fluid for its operation.
 - D. does not require additional power source.

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PAPER 2

SECTION B

ESSAY

[60 marks]

Answer **four** questions only from this section.

Credit will be given for clarity of expression and orderly presentation of material.

All questions carry **equal** marks.

1. The sketch below is a unit in the liquid cooling system.
 - (a)
 - (i) Identify the unit.
 - (ii) State the purpose of the unit.
 - (b) Name the parts labelled A, B, C, D, E and F.
 - (c) State **four** defects in the cooling system that can cause engine overheating.
2.
 - (a) Explain the following terms in connection with carburettors:
 - (i) weak mixture;
 - (ii) rich mixture;
 - (iii) correct mixture.
 - (b) What devices are provided on the carburettor for adjusting mixture strength?
 - (c) Describe the operation of a mechanical fuel pump.
3.
 - (a) State **three** functions of engine oil.
 - (b) Explain the following lubrication terms:
 - (i) boundary,
 - (ii) film.
 - (c) State the purpose of an oil filter in a lubrication system.
 - (d) Name **three** types of engine oil pumps.
4.
 - (a)
 - (b)
 - (c) **Want More WASSCE Past Questions**
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5.
 - (a)
 - (b) **WHATSAPP +2348051311885**
 - (c)

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