

S6033 & S6032
AUTO
MECHANICAL WORK
2 hours 30 minutes

III
& II

Name:.....

Examination Number:.....

NATIONAL EXAMINATIONS COUNCIL
Senior School Certificate Examination

2 hours 30 minutes

AUTO MECHANICAL WORK

Do **not** open this booklet until you are told to do so. While waiting, read the following carefully.

Write your **Name** and **Examination Number** in the spaces provided at the top right-hand corner of this question booklet.

This paper consists of two Papers: **III** and **II**.

Answer Paper **III** on your objective test answer sheet. Instruction on how to do this are given on the next page. Paper **III** will last for **40 minutes**. On completion of Paper **III**, the objective test answer sheet will be collected.

Answer to Paper **II** are to be written in your answer booklet. Paper **II** will last for **1 hour. 30 minutes**

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PAPER III

Answer **all** questions

Each question is followed by **five** options lettered **A - E**. Choose the correct option for each question and shade **in pencil** on your answer sheet the answer space that bears the same letter as the option you have chosen. Give only **one** answer to each question and erase completely any answer you wish to change. Do all rough work on this question paper.

An example is given below:

Which of the following is used to control the unwanted motion in a spring-mounted on vehicle

- A. Differential gear
- B. Positive clutch
- C. Power steering
- D. Rack and pinion
- E. Shock absorber

The correct option is 'Shock absorber' which is lettered E. Therefore, answer space E would be shaded.

[A] [C] [D] E

1. Accident in the workshop are caused by ____ of the victim
 - A. calmness
 - B. carelessness
 - C. diligence
 - D. expertise
 - E. orderliness
2. In a four-stroke engine, inlet valve open during the ____ stroke
 - A. compression
 - B. exhaust
 - C. expansion
 - D. induction
 - E. power
3. The ____ is component of exhaust system in a motor vehicle
 - A. filter
 - B. hose
 - C. muffler
 - D. pump
 - E. thermostat
4. Mechanical brakes are connected in the rear wheels of a motor vehicle by
 - A. cables
 - B. cams
 - C. levers
 - D. links
 - E. pulleys

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5. Rapid combustion of fuel that results to knocking sound in the cylinder can be referred to as
- A. backfiring.
 - B. detonation.
 - C. engine knock.
 - D. pinking.
 - E. sludge.
6. In the lubrication system, the measure of resistance of oil to flow is referred to as
- A. fluidity.
 - B. oiliness.
 - C. pour-point.
 - D. viscosity.
 - E. viscosity index.
7. The ___ is a component of a motor vehicle cooling system.
- A. diaphragm
 - B. filter
 - C. rotor
 - D. stator
 - E. thermostat
8. Material used to produce cylinder block is
- A. aluminium alloy.
 - B. annealed copper.
 - C. mild steel.
 - D. stainless steel.
 - E. wrought iron.
9. Which of the following is not a property of piston?
- A. Good conductor of heat
 - B. High heat resistance
 - C. Low thermal expansion
 - D. Slide freely
 - E. Very heavy in weight
10. The triangular stand shown below is a sign of



- A. bump ahead.
- B. cross road.
- C. danger ahead.
- D. narrow bridge.
- E. tri-junction.

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11. The number of cylinders that can be found in an inline engine is
- A. eight.
 - B. seven.
 - C. six.
 - D. twelve.
 - E. two.
12. Gearbox is fitted between the ___ and
- A. clutch, universal joint.
 - B. clutch, differential.
 - C. differential, final drive.
 - D. rear axle, propeller shaft.
 - E. universal joint, propeller . shaft.
13. During front wheel alignment, the component that is adjusted is the
- A. drag link.
 - B. drop arm.
 - C. relay arm.
 - D. steering arm.
 - E. track rod.
14. Auto mechanic tool that is mostly used with a ratchet is
- A. Hat spanner.
 - B. ring spanner.
 - C. socket spanner.
 - D. torque wrench.
 - E wheel spanner.
15. Unsprung weight of a vehicle is supported by the
- A. chassis.
 - B coil spring,
 - C. engine seat.
 - D. shock absorber.
 - E. tyre.
16. Shifting of gears towards right and left along a splined shaft is an application of
- A. rack and pinion.
 - B. recirculating ball.
 - C. sliding-mesh.
 - D. worm and nut.
 - E. worm and roller.
17. Appropriate tool for removing oil filter from the engine is
- A. hammer.
 - B. pressure gauge.
 - C. screw driver.
 - D. spanner.
 - E. wire wrench.
18. The following safety precautions are to be observed in a workshop **except**
- A. having fire extinguisher in an accessible place.
 - B. keeping inflammable chemical in a sealed container.
 - C. provision of free work way.
 - D. smoking in the workshop.
 - E. wearing of goggles during welding.

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PAPER II

Answer **four** questions only.

1. (a) State the purpose of suspension system in a motor vehicle. (2 marks)
(b) Enumerate **three** types of suspension system. (3 marks)
(c) Sketch and label **five** parts of a semi-elliptic spring. (10 marks)
2. (a) Define safety. (2 marks)
(b) Explain the following in relation to management of resources in Auto Mechanical Shop:
(i)
(ii)
(iii)
(iv)
(c) (5 marks)

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3. (a) (5 marks)
(b) (2 marks)
(c) (8 marks)
4. (a) State **four** purposes of engine lubrication. (4 marks)
(b) Differentiate between force-feed and splash-feed lubrication systems. (4 marks)
(c) What is the purpose of oil filter in lubrication system? (2 marks)
(d) Neatly sketch an engine piston and label any **two** parts. (5 marks)
5. (a) State **three** objectives of setting up an automobile business (3 marks)
(b) Explain the following management functions as it relates to automobile business.
(i) Planning
(ii)
(iii)
(iv)
(12 marks)

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