

Candidate Name	Centre Number	Candidate Number

WELSH JOINT EDUCATION COMMITTEE



CYD-BWYLLGOR ADDYSG CYMRU

ENTRY LEVEL CERTIFICATE

TYSTYSGRIF LEFEL MYNEDIAD

717/03

Entry Level Certificate

MOTOR VEHICLE AND ROAD USER STUDIES

MOTOR VEHICLE ENGINEERING

P.M. THURSDAY, 30 March 2006

(15 minutes)

Examiner only

Total Marks	
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INSTRUCTIONS TO CANDIDATES

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** questions in the spaces provided in this booklet.

If you have difficulty in reading a question, put up your hand and the teacher-in-charge will read it to you.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question.

No certificate will be awarded to a candidate detected in any unfair practice during the examination.

Answer all questions in the spaces provided.

1. Where on a motor vehicle is the clutch usually found?

- (a) Between the engine and the gearbox.
- (b) Between the gearbox and the prop shaft.
- (c) Between the differential and the half-shafts.

Answer [1]

2. Look at the picture below and then answer the question that follows.



Is the following sentence **TRUE** or **FALSE**?

“The style of the motor vehicle shown is a saloon.”

Answer [1]

3. What might one effect be of tightening the fan-belt on a motor vehicle?

- (a) It could damage the crankshaft bearings.
- (b) It could damage the water pump bearings.
- (c) It could damage the cooling fan.

Answer [1]

4. Is the following sentence **TRUE** or **FALSE**?

“A vehicle that has two sets of differential gears usually has four-wheel drive.”

Answer [1]

5. Look at the picture below and then answer the question that follows.



What is the component shown?

- (a) A fuel pump.
- (b) A master cylinder.
- (c) An ignition coil.

Answer [1]

6. Look at the picture below and then answer the question that follows.



Is the following sentence **TRUE** or **FALSE**?

“The picture shows a spoked wheel.”

Answer [1]

7. What do the letters BDC refer to when used about an engine?

- (a) Before Dead Centre.
- (b) Behind Dead Centre.
- (c) Bottom Dead Centre.

Answer [1]

8. Is the following sentence **TRUE** or **FALSE**?

“It is illegal to fit radial ply tyres on the same axle.”

Answer [1]

9. What is the usual thread size of spark plug used in a motor vehicle engine?

(a) 14 mm.

(b) 15 mm.

(c) 16 mm.

Answer [1]

10. Is the following sentence **TRUE** or **FALSE**?

“Dish and drum are the two types of brakes normally used on a motor vehicle.”

Answer [1]

11. Look at the picture below and then answer the question that follows.



Is the following sentence **TRUE** or **FALSE**?

“The nut shown is normally used to hold the road wheel onto a motor vehicle.”

Answer [1]

12. When should the mains switch of a battery charger be switched on?

- (a) Before the battery is connected.
- (b) Whilst the battery is being connected.
- (c) After the battery is connected.

Answer [1]

13. Why are the hoses that connect the engine to a vehicle's radiator made from rubber?

- (a) Because they are cheap to produce.
- (b) To allow the engine to vibrate without damaging the radiator.
- (c) To make sure that they last longer.

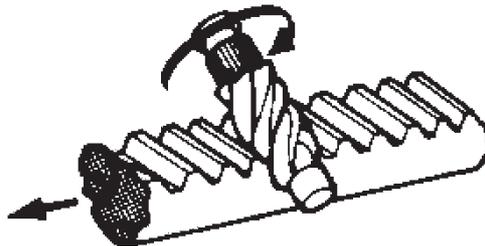
Answer [1]

14. Is the following sentence **TRUE** or **FALSE**?

“The operating order of the **Four-Stroke Cycle** is Induction, Power, Compression, Exhaust.”

Answer [1]

15. Look at the picture below and then answer the question that follows.



Is the following sentence **TRUE** or **FALSE**?

“The **rack and pinion** shown can be found in many motor vehicle steering systems.”

Answer [1]