



General Certificate of Secondary Education
2014

Centre Number

71

Candidate Number

Motor Vehicle and Road User Studies

Unit 1: Motor Vehicle and Road User Theory

Foundation Tier

[GMV11]

THURSDAY 5 JUNE, MORNING



TIME

1 hour 30 minutes.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.
Answer **all** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 120.
Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.
Quality of written communication will be assessed in questions 49 and 50.

For Examiner's use only	
Question Number	Marks
1–4	
5–10	
11–20	
21–23	
24–27	
28–31	
32–35	
36–37	
38	
39–41	
42–44	
45–46	
47	
48–49	
50	
Total Marks	

Section A

Answer **all** questions.

- 1 On what type of road would you find this colour of sign?



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Fig. 1.1

_____ [1]

- 2 According to the Highway Code, you must not sound your horn in a built up area between the hours of _____ and 7.00 am. [1]

- 3 All children over the age of _____ must wear an adult seatbelt in a vehicle if one is fitted. [1]

- 4 The following vehicle markings are examples of _____ plates. [1]



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Fig. 4.1

Examiner Only	
Marks	Remark

- 11 A _____ will be sent to the main driver to remind that insurance cover is coming to an end. [1]
- 12 A _____ lists a vehicle's details. [1]
- 13 Provisional licences, driving tests and speed limits were introduced in N.I. in _____ . [1]
- 14 The term used to describe buying a vehicle without trading in another against it is known as a _____ . [1]
- 15 Maintenance and fuel are two main examples of _____ costs. [1]
- 16 The second priority at the scene of an accident is to _____ . [1]
- 17 A _____ ignites the fuel in a petrol engine. [1]
- 18 The function of the _____ is to keep a battery recharged. [1]
- 19 The MacPherson strut is part of the _____ suspension system. [1]
- 20 The thermostat is part of the _____ system. [1]

Examiner Only

Marks	Remark

Section B

Answer **all** questions.

21



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Fig. 21.1

The photograph in **Fig. 21.1** above shows a single track road.

State **two** things of which a motorist needs to be aware.

1. _____
 _____ [1]

2. _____
 _____ [1]

22 (a) What is the national speed limit?

_____ mph
 [1]

(b) What is the maximum speed for a car towing a caravan?

_____ mph
 [1]

23 Name the document you receive when waiting for your certificate of insurance to arrive.

_____ [1]

Examiner Only	
Marks	Remark

24 Identify **three** ignition system components from the list below.

battery
coil
low tension leads
high tension leads
alternator
spark plugs

1. _____ [1]

2. _____ [1]

3. _____ [1]

25



Fig. 25.1

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At the sign, **Fig. 25.1** above, would you be travelling uphill or downhill?

_____ [1]

26 (a) According to the Highway Code, state the only reason motorists should flash their headlights.

_____ [1]

(b) According to the Highway Code, when should front/rear fog lamps be switched on?

_____ [1]

27 Give the meaning of the following initials:

BHP _____ [1]

SORN _____ [1]

DVA _____ [1]

Examiner Only	
Marks	Remark

28 Explain briefly the term “parallel parking”.

_____ [2]

29 Suggest **two** reasons why roundabouts are used at major road junctions.

1. _____ [1]
2. _____ [1]

30 (a) List **two** ways in which driving can be affected by old age.

1. _____ [1]
2. _____ [1]

(b) List **two** tendencies in young drivers which could make them an insurance risk.

1. _____ [1]
2. _____ [1]

31 Which vehicle component:

(a) removes oxides of nitrogen and waste gases from the cylinders?

_____ [1]

(b) allows the brakes to be applied with only a little pressure?

_____ [1]

(c) gives precise amounts of fuel to the cylinders?

_____ [1]

Examiner Only	
Marks	Remark

36 (a) Name **two** maintenance checks, apart from the concentration of anti-freeze, you could carry out on a vehicle's cooling system.

1. _____ [1]

2. _____ [1]

(b) Explain briefly how a cooling fan cools.

_____ [1]

(c) Explain briefly how air cooling works on an air cooled engine.

_____ [2]

37 (a) Where, on a roadway, would you find a cross wind?

_____ [1]

(b) Explain briefly what effect a cross wind would have on a vehicle.

_____ [1]

Examiner Only	
Marks	Remark

38 Study the road signs below.

Explain the meaning of each of the road signs Fig. 38.1 to Fig. 38.6 below.



Fig. 38.1



Fig. 38.2



Fig. 38.3



Fig. 38.4



Fig. 38.5



Fig. 38.6

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Fig. 38.1 _____ [1]

Fig. 38.2 _____ [1]

Fig. 38.3 _____ [1]

Fig. 38.4 _____ [1]

Fig. 38.5 _____ [1]

Fig. 38.6 _____ [1]

Examiner Only	
Marks	Remark

39 (a) Name **two** legal obligations if you are involved in an injury accident.

1. _____ [1]

2. _____ [1]

(b) State **two** pieces of information you could provide when calling the emergency services at the scene of an accident.

1. _____ [1]

2. _____ [1]

(c) Explain briefly how you would treat an incised wound.

_____ [1]

40 (a) Apart from a scooter or motorcycle rider, name **one** other road user who must wear a helmet.

_____ [1]

(b) Suggest **two** reasons why a motorcyclist should wear leathers.

1. _____ [1]

2. _____ [1]

41 (a) In the driving test, how far ahead must a candidate be able to read a number plate?

_____ [1]

(b) Explain briefly what is meant by peripheral vision.

_____ [1]

Examiner Only	
Marks	Remark

47 Study the photographs **Fig. 47.1** to **Fig. 47.3**.



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Fig. 47.1

(a) Name **one** hazard for pedestrians in **Fig. 47.1** above.

_____ [1]



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Fig. 47.2

(b) Name the traffic management technique shown in **Fig. 47.2** above.

_____ [1]

(c) Name **two** hazards a driver could face in **Fig. 47.2**.

1. _____ [1]

2. _____ [1]

Examiner Only	
Marks	Remark

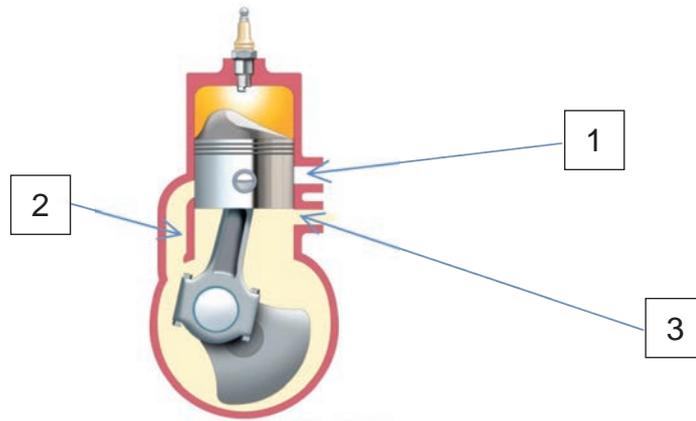


Fig. 48.1

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(a) Name the parts marked 1 to 3 in **Fig. 48.1** above.

- 1. _____ [1]
- 2. _____ [1]
- 3. _____ [1]

(b) Explain briefly why oil is added to the fuel in a two stroke engine.

 _____ [1]

(c) Suggest **one** advantage of a two stroke engine.

_____ [1]

49 Describe briefly how you would take care while driving on rural roads.

 _____ [6]

Examiner Only	
Marks	Remark

THIS IS THE END OF THE QUESTION PAPER

Source:

- Fig 1.1: Highway code booklet;
- Fig 4.1: Highway code booklet;
- Fig 5.1: Google Images;
- Fig 21.1: Highway code booklet;
- Fig 25.1: Highway code booklet;
- Fig 38.1: Highway code booklet;
- Fig 38.2: Highway code booklet;
- Fig 38.3: Highway code booklet;
- Fig 38.4: Highway code booklet;
- Fig 38.5: Highway code booklet;
- Fig 38.6: Highway code booklet;
- Fig 47.1: Photograph (PX);
- Fig 47.2: Photograph (PX);
- Fig 47.3: Photograph (PX);
- Fig 48.1: MVRUS – ISBN 978-1-90-6578-31-2, (2009);

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