

New
Specification



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Centre Number	
71	

Candidate Number	
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General Certificate of Secondary Education
2011

Motor Vehicle and Road User Studies
Unit 1: Motor Vehicle and Road User Theory
Foundation Tier
[GMV11]



THURSDAY 19 MAY, 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 question **52**.

For Examiner's use only	
Question Number	Marks
1–7	
8–16	
17–20	
21–30	
31–35	
36–39	
40–41	
42–48	
49–52	
Total Marks	

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Section A

Answer **all** questions.

Examiner Only	
Marks	Remark

- 1 Speed bumps, speed cushions, road narrowing and gateways are all considered _____ measures. [1]

- 2 Motorway signs usually have white lettering on a _____ background. [1]

- 3 The legal limit for a drink-driving offence is _____ mg of alcohol per 100 ml of blood. [1]

- 4 The sign in **Fig. 4.1** below means _____ . [1]



Fig. 4.1

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- 5 _____ is the term used to describe a vehicle's wheels losing contact with the road because of excess surface water. [1]

- 6 Red coloured road studs identify _____ . [1]

- 7 Airbags, seat belts and side impact bars are all features of _____ safety. [1]

- 8 Driver and Vehicle Agency Enforcement Officers drive vehicles with _____ flashing lights. [1]
- 9 Which one of the following should a vehicle use when driving in foggy conditions?
Side lights, No lights, Full beam, Dipped headlights.
_____ . [1]
- 10 The speed limit for a bus on a motorway is _____ mph. [1]
- 11 The legal tread depth for tyres on a motorcycle is _____ mm. [1]
- 12 In Northern Ireland all vehicles over _____ years old must complete an annual MOT test. [1]
- 13 In 1885 a man called Karl Benz produced the first _____. [1]
- 14 _____ is the most expensive standing cost for a motorist. [1]
- 15 Apart from bank loans, state one other method of financing the purchase of a vehicle.
_____ . [1]

Examiner Only	
Marks	Remark

- 16 What is the name given to a wound caused by being struck by a blunt instrument?
 _____ . [1]
- 17 The differential is found in the _____ system. [1]
- 18 Engine oil level can be checked using the _____ . [1]
- 19 Inlet, outlet and _____ are the ports in a 2-stroke engine. [1]
- 20 Oil is stored in the _____ at the bottom of the engine. [1]

Examiner Only

Marks Remark

Marks	Remark

Section B

Answer **all** questions.

Examiner Only

Marks Remark

21 What is the name given to a motorway in Germany?

_____ [1]

22 What is the rule in the Highway Code for using a box junction?

_____ [1]

23 How could a colour blind driver recognise a red traffic light?

_____ [1]

24 What is the maximum speed for a car towing a trailer on a single carriageway?

_____ mph [1]

25 Name the **two** components to which the gudgeon pin is attached.

1. _____ [1]

2. _____ [1]

26 (a) Describe the main difference between a pelican crossing and a zebra crossing.

_____ [1]

(b) Name **two** engineering methods which could help a partially sighted or a hard of hearing pedestrian using a pelican crossing.

1. _____ [1]

2. _____ [1]

27 Apart from Fire and Rescue, name **one** other emergency service you could request when dialling 999.

_____ [1]

28 When should a front passenger air bag be switched off?

_____ [1]

29 Park and Ride schemes help ease congestion in cities. Suggest **two** benefits of such schemes.

1. _____ [1]

2. _____ [1]

30 Give **two** reasons why it makes sense to car share.

1. _____ [1]

2. _____ [1]

Examiner Only

Marks Remark

Examiner Only	
Marks	Remark

31 (a) Apart from cost, what is the main difference between third party and fully comprehensive insurance?

_____ [1]

(b) In motoring insurance, who is referred to as the 'proposer'?

_____ [1]

32 Give the meaning of the following initials:

MOT _____ [1]

PCV _____ [1]

33 Find a phrase in Group B to complete each sentence in Group A below. Place a circle around your answer.

Group A

- | | | |
|---------------------------------------|-----------|-----|
| 1. The inlet manifold connects the | a b c d e | [1] |
| 2. The universal joint connects the | a b c d e | [1] |
| 3. The high tension lead connects the | a b c d e | [1] |
| 4. The negative lead connects the | a b c d e | [1] |
| 5. The big end bearing connects the | a b c d e | [1] |

Group B

- a battery to the car body
- b crankshaft to the connecting rod
- c carburettor to the cylinder head
- d drive shaft to the differential
- e distributor to a spark plug

34 Name **two** categories of road user permitted to use a Toucan crossing.

1. _____ [1]

2. _____ [1]

35 Give the meaning of each of the road signs shown in **Figs 35.1–35.6** below, as stated in the Highway Code.



Fig. 35.1



Fig. 35.2



Fig. 35.3



Fig. 35.4



Fig. 35.5



Fig. 35.6

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Fig. 35.1 _____ [1]

Fig. 35.2 _____ [1]

Fig. 35.3 _____ [1]

Fig. 35.4 _____ [1]

Fig. 35.5 _____ [1]

Fig. 35.6 _____ [1]

Examiner Only	
Marks	Remark

- 36** Joe is eighteen years old and has been driving for one year. He drives a 1.6 L fuel injected, turbo powered two door saloon car which does 0–60 mph in 7.4 secs.
Sarah is thirty five years old and has been driving for seventeen years. She drives a 1.1 L fuel injected four door saloon which does 0–60 mph in 13 secs.
They both need third party, fire and theft insurance from the same company.

(a) Who pays more for insurance?

_____ [1]

(b) Who would most need a higher excess?

_____ [1]

(c) Who would be a greater risk for the insurance company?

_____ [1]

(d) Who would most likely have a no claims discount?

_____ [1]

- 37** (a) How far would a vehicle travel in forty minutes at a steady speed of 30 mph?

_____ miles [1]

(b) What is the average speed of a car which travels 69 miles in one and a half hours?

_____ mph [1]

40 Examine Fig. 40.1 below carefully.



Fig. 40.1

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(a) Where would this sign be found?

_____ [1]

(b) Why would this sign be used there?

_____ [1]

(c) Name **one** traffic management device which might accompany this sign.

_____ [1]

Examiner Only

Marks Remark

41 Examine **Fig. 41.1** below carefully.



Fig. 41.1

Describe **two** hazards in the photograph.

1. _____
 _____ [1]

2. _____
 _____ [1]

Examiner Only	
Marks	Remark

42 (a) Under what circumstances can an unauthorised person legally stop traffic?

_____ [1]

(b) Name **three** parts of a motor vehicle which must be cleared of snow before driving.

1. _____ [1]

2. _____ [1]

3. _____ [1]

(c) Name the only reason why a motorist should sound the horn.

_____ [1]

43 (a) Name **two** places where you must not stop and park.

1. _____ [1]

2. _____ [1]

(b) Why might a motorist drive with headlights on during the day?

_____ [1]

44 State the minimum age for driving the following vehicles:

Moped _____ [1]

Car _____ [1]

LGV _____ [1]

45 Name **two** ways in which traffic calming can make for a safer environment.

1. _____ [1]

2. _____ [1]

Examiner Only	
Marks	Remark

49 (a) Explain briefly why a vehicle on a motorway might require a police escort.

_____ [1]

(b) Name **three** differences between a motorway and a dual carriageway.

1. _____ [1]

2. _____ [1]

3. _____ [1]

(c) On a motorway, when would it be necessary for a driver to use a lifesaver check?

_____ [1]

50 (a) State **two** hazards found on rural roads which might not be encountered in towns or cities.

1. _____ [1]

2. _____ [1]

(b) Describe briefly how lying water on the road could be a danger to the motorist.

_____ [1]

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51 Inattention is a major contributory factor in many road traffic accidents. Describe briefly how drivers can reduce distractions while driving.

[6]

52 Vehicles are becoming faster, more fuel efficient and safer. Discuss how a combination of vehicle engineering and driver behaviour can reduce accidents.

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Marks	Remark

[12]

THIS IS THE END OF THE QUESTION PAPER

Examiner Only	
Marks	Remark

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