



General Certificate of Secondary Education
2012

Centre Number

71

Candidate Number

Motor Vehicle and Road User Studies

Unit 1: Motor Vehicle and Road User Theory

Foundation Tier

[GMV11]

THURSDAY 17 MAY, MORNING



GMV11

For Examiner's
use only

Question Number	Marks
1-6	
7-10	
11-14	
15-20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	

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 **49**.

Total
Marks

7 Name the traffic calming measure shown in **Fig. 7.1** below.

_____ . [1]



Fig. 7.1

8 What does the sign in **Fig. 8.1** below indicate? _____ [1]



Fig. 8.1

© Crown copyright

9 What does the traffic light signal in **Fig. 9.1** below mean?

_____ [1]



Fig. 9.1

© Crown copyright

10 The Highway Code states that, unless a different speed limit is shown, it is illegal to drive at a speed greater than _____ mph. [1]

Examiner Only	
Marks	Remark

21 Explain the meaning of the phrase “give way”.

_____ [1]

22



Fig. 22.1
© Crown copyright

(a) Where would you see the sign in **Fig 22.1** above?

_____ [1]

(b) State **one** time of day when the hazard shown in **Fig. 22.1** above is likely to occur.

_____ [1]

23 (a) Give **two** reasons why newly qualified drivers should display an R plate.

1. _____ [1]

2. _____ [1]

(b) List **two** reasons why drivers between 18–21 years are more likely to be involved in an accident than any other age group.

1. _____ [1]

2. _____ [1]

24 How can a seat belt exemption be obtained?

_____ [1]

Examiner Only	
Marks	Remark

25 Explain the meaning of the term “contraflow”.

[2]

26 Calculate the average speed of a vehicle which travels 108 miles in $1\frac{1}{2}$ hours.

_____ mph [1]

27 (a) In which of the following vehicle systems would a catalytic converter be found?

1. Electrical
2. Fuel
3. Exhaust
4. Transmission

_____ system [1]

(b) What is the purpose of a catalytic converter?

[1]

28 Suggest **one** reason why a cyclist should not cycle too close to the kerb on a road.

[1]

Examiner Only

Marks

Remark

29 Explain why the white centre lines on a single carriageway road vary in length.

_____ [1]

30 Apart from the sign, name **two** ways in which you can be reminded that you are approaching a roundabout.

1. _____ [1]

2. _____ [1]

31 In the spaces provided, match the insurance meanings in **List A** to the insurance terms in **List B**.

List A

a : A person acting for an insurance company who will sell you one of their policies.

b : A person who sells insurance for many companies.

c : The person who has bought the insurance.

List B

1. Broker _____
_____ [1]

2. Insurance Agent _____
_____ [1]

3. Policy Holder _____
_____ [1]

Examiner Only

Marks Remark

32 Study the photographs Fig. 32.1 and Fig. 32.2 below.



Fig. 32.1

(a) Suggest **one** reason why a wooden fence has been built along this stretch of motorway.

_____ [1]



Fig. 32.2

(b) Suggest **one** reason why speed has been reduced on this stretch of motorway.

_____ [1]

Examiner Only	
Marks	Remark

36 Study the road signs below.

Explain the meaning of each of the road signs Fig. 36.1 to Fig. 36.6 below.



Fig. 36.1



Fig. 36.2



Fig. 36.3



Fig. 36.4



Fig. 36.5



Fig. 36.6

© Crown copyright

Fig. 36.1 _____ [1]

Fig. 36.2 _____ [1]

Fig. 36.3 _____ [1]

Fig. 36.4 _____ [1]

Fig. 36.5 _____ [1]

Fig. 36.6 _____ [1]

37 (a) Describe **two** actions a driver can take to be a safe driver.

1. _____ [1]

2. _____ [1]

(b) Describe **two** ways in which a person can be a safe pedestrian.

1. _____ [1]

2. _____ [1]

Examiner Only	
Marks	Remark

38 (a) Name **two** ways in which motor vehicle technology plays a part in accident reduction.

1. _____ [1]

2. _____ [1]

(b) State **two** ways in which road engineers/planners can manage parking in a city.

1. _____ [1]

2. _____ [1]

39 (a) State **two** ways in which a motorist could reduce the cost of owning a vehicle.

1. _____ [1]

2. _____ [1]

(b) Explain **two** ways in which your driving style can reduce running costs.

1. _____ [1]

2. _____ [1]

(c) Antifreeze has to be added to a 4.4 litre engine cooling system in the ratio of 1:10. Calculate the amount of antifreeze required.

_____ [2]

Examiner Only	
Marks	Remark

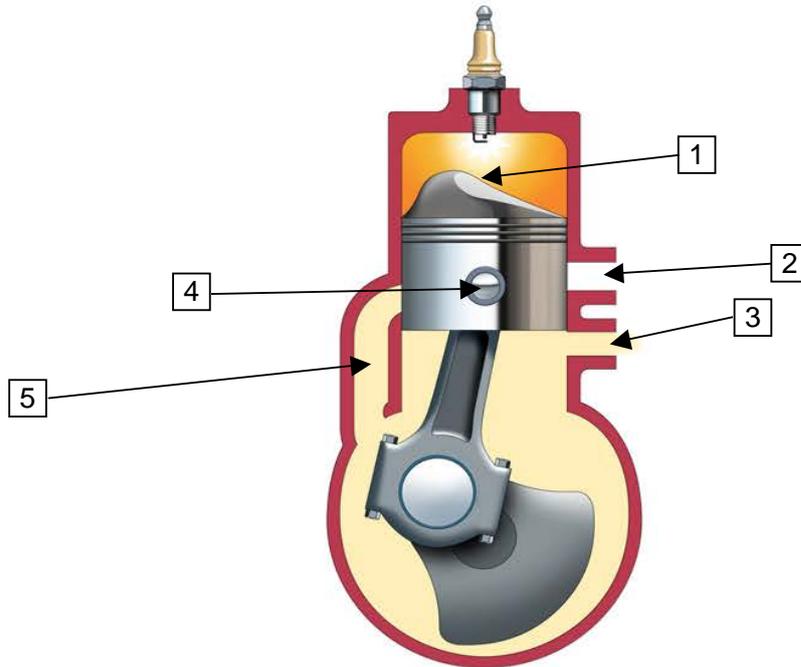


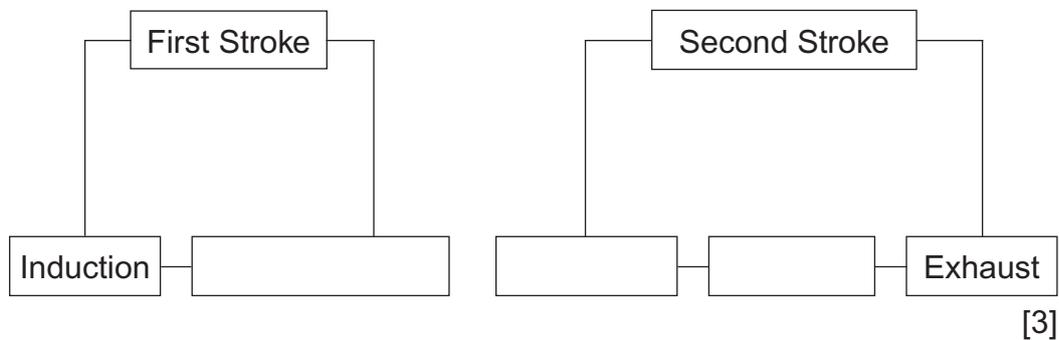
Fig. 40.1

© *Motor Vehicle and Road User Studies* by Eamonn McPolin, pages 100/101, published by Colourpoint Books, 2009. ISBN 9781906578312

(a) Name the parts marked 1 to 5 on **Fig. 40.1** above.

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

(b) Complete the block diagram below for the two stroke cycle.



[3]

Examiner Only	
Marks	Remark

44 Name **two** items, not normally supplied with the vehicle, which you could place in your car to help cope with emergencies.

1. _____ [1]

2. _____ [1]

45 Name **two** actions a motorist must take at the scene of an injury accident in which he/she is involved.

1. _____ [1]

2. _____ [1]

46 (a) What is the meaning of “passive” when referring to seat belt restraints?

 _____ [1]

(b) Name **two** examples of secondary safety found in a vehicle.

1. _____ [1]

2. _____ [1]

47 (a) Explain briefly how you would overtake a horse and rider when driving.

 _____ [2]

(b) State the meaning of the term “cut in” in reference to overtaking another vehicle.

 _____ [1]

Examiner Only	
Marks	Remark

48 Describe briefly how you would drive safely through a busy city.

[6]

Examiner Only	
Marks	Remark

THIS IS THE END OF THE QUESTION PAPER

Permission to reproduce all copyright material has been applied for.
In some cases, efforts to contact copyright holders may have been unsuccessful and CCEA
will be happy to rectify any omissions of acknowledgement in future if notified.