GE
Rewarding Learning

Centre Number			
71			
and	lidate Number		

General Certificate of Secondary Education 2013

Motor Vehicle and Road User Studies

Unit 1: Motor Vehicle and Road User Theory

Foundation Tier

[GMV11]

THURSDAY 16 MAY, MORNING

TIME

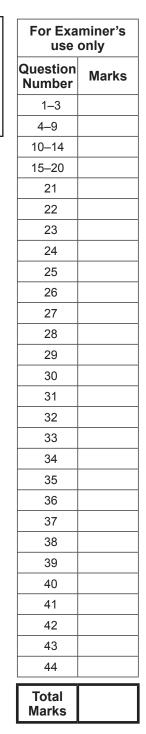
1 hour 30 minutes, plus your additional time allowance.

INSTRUCTIONS TO CANDIDATES

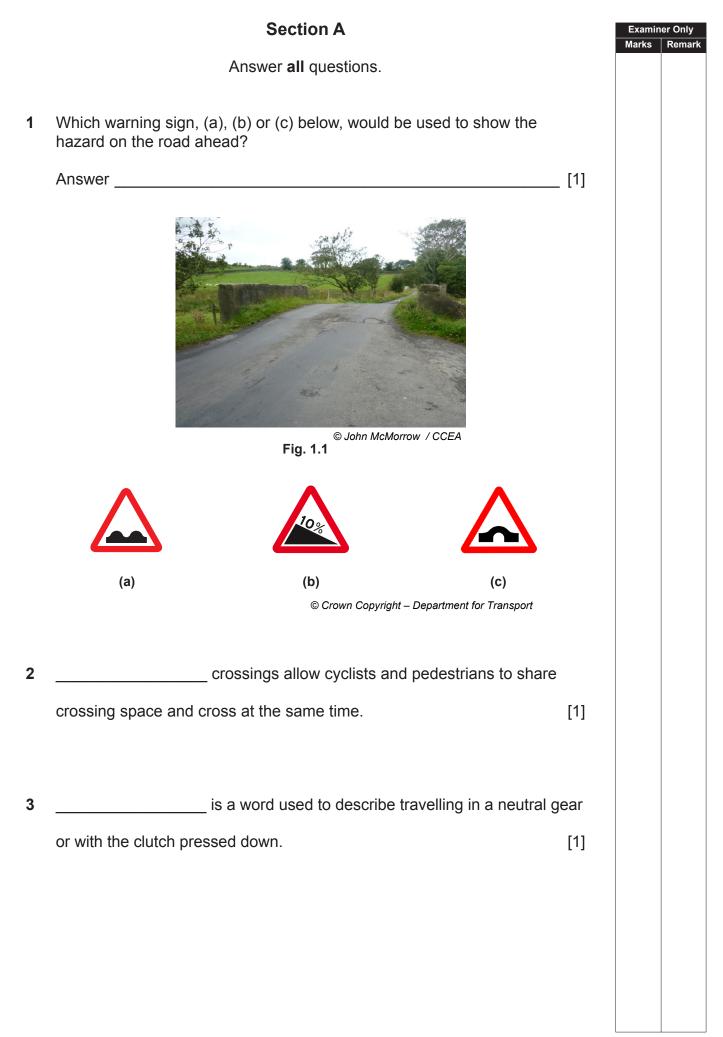
Write your Centre Number and Candidate Number in the spaces provided at the top of this page. Answer **all** questions.

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 **44**.







4	Advice given in the Highway Code to help all road users crossing a roa	d	Examin Marks	er Only Remark
	is called the			Roman
		[1]		
5	is another word used to describe tiredness.	[1]		
•		r.1		
6	A broken down vehicle which is parked along the side of a road should			
	have its lights on.	[1]		
7	Engineering, and Education are all methods used	l to		
	help reduce road accidents.	[1]		
•				
8	An endorsable ticket issued by the police imposes a fine and			
	·	[1]		
9	The arm signals below mean: Stop, traffic is approaching from both from	ot		
5	The arm signals below mean. Stop, traine is approaching norm both nor	ii.		
	and	[1]		
	🦉 😪			
	Fig. 9.1			
	© Crown copyright – The Official Highway Code for Northern Ireland, 2008.			

What is the name given to the road markings below?			er Only Remar
	[1]	Walks	Reina
Fig. 10.1			
© Crown Copyright – Department for Transport			
A document which provides details about legal proof of insurance is			
known as the Insurance	[1]		
	[.]		
Which one of the following is the odd one out?			
Answer	_ [1]		
Driving Tax Petrol MOT V5			
Licence Disc Receipt Certificate Form			
Hydrocarbons and carbon monoxide are two examples of			
	[1]		
is the term used to descri	be a		
vehicle which is bought without trading another in	[1]		
vehicle which is bought without trading another in.	[1]		
vehicle which is bought without trading another in.	[1]		
vehicle which is bought without trading another in.	[1]		
	Fig. 10. Fig. 10. Cover Copyright - Department for Transport A document which provides details about legal proof of insurance is known as the Insurance Which one of the following is the odd one out? Answer	[1]	[1]

15	A Honda jeep costs £9,000). I can either pay £255 a month for three yea	Examiner Only Marks Remark
	or pay cash. If I pay cash,	I would save £	[1]
46		fools faint or dizzy and is yory thirsty is likely	(to)
10		feels faint or dizzy and is very thirsty is likely	
	be suffering from	·	[1]
17	A co	ntrols the temperature of water in a vehicle's	
	cooling system.		[1]
18	The cylinder below is on th	estroke.	[1]
		4	
		3. The	
		G	
		Fig. 18.1	
		and Road Users Studies by Eamonn McPolin, lourpoint Books, 2009. ISBN 9781906578312	
19	The	allows one rear wheel to turn faster than the	
	other when going round co	rners.	[1]
20	The component fitted to a	vehicle's exhaust pipe to reduce noise is kno	wn
	as a	box.	[1]

Section B

Examiner Only Marks Remark

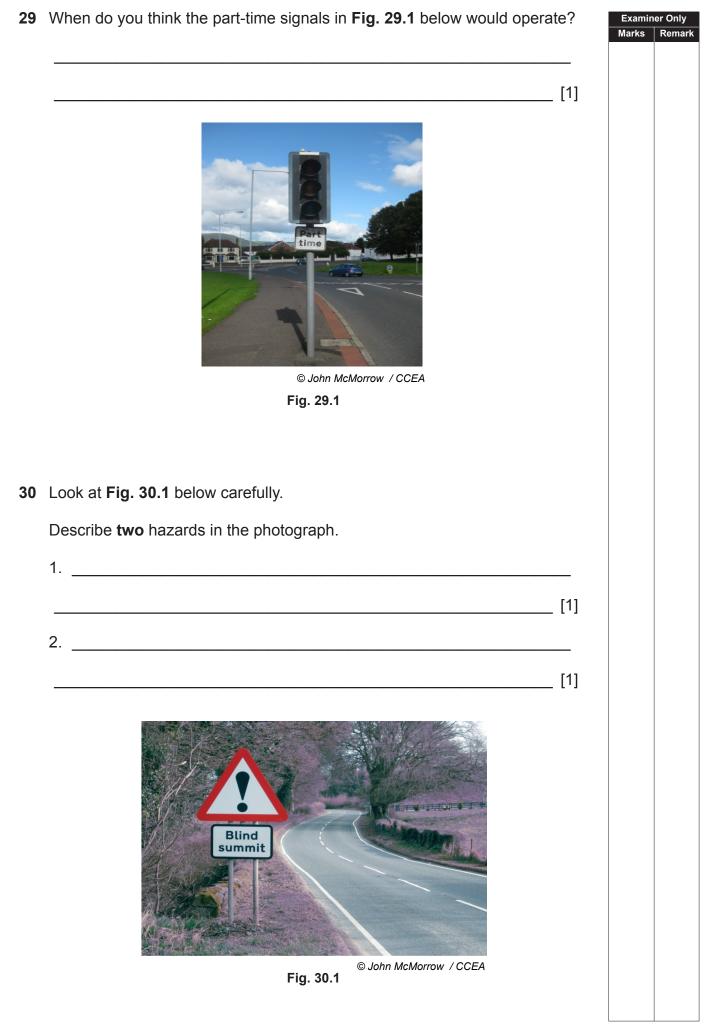
Answer	all q	uestions.

21	Why do tyres	have a tread pattern?	
22		m which, by law, must be kept clean on a motor vehicle.	
23	(a) Write dow	vn the legal limit for alcohol in:	
	1. breath	micrograms per 100 ml.	[1]
	2. blood _	milligrams per 100 ml.	[1]
	(b) Write dow	vn two ways alcohol/drugs can affect a driver.	
	1		[1]
	2		[1]
24	Drimony road		
24		signs have lettering on	[0]
	a	background.	[2]
25	Apart from a h following shou	nelmet, name two articles of clothing which each of the uld wear.	
	Cyclist	1	[1]
		2	. [1]
	Motorovalist	1	[1]
	Motorcyclist	1	
		2	. [']

26	(a)	Apart from the legal requirement, explain briefly why a motorist needs
		insurance.

	hree reasons why young, newly qualified, male drivers a ance risk.	
/rite dov	n the meanings of the following initials:	
BS		[1]
ORN _		[1]
CV		[1]
	ght, when should a driver use his/her main beam?	[1]
		[2]

Examiner Only Marks Remark



31 (a) Name three secondary safety features found on modern cars.

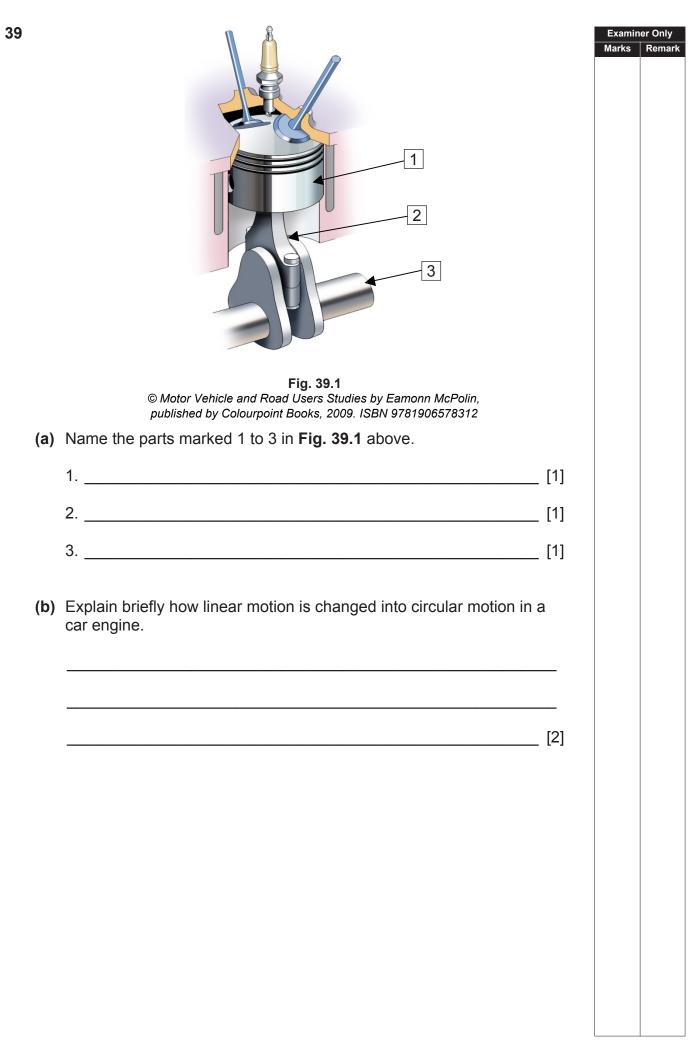
(a)	Name three secondary safety features found on modern cars.	Examine Marks	er Only Remark
	1		
	[1]		
	2		
	[1]		
	3		
	[1]		
	L'J		
(b)	Name two ways in which motor vehicle pollution has been reduced or discouraged.		
	1		
	[1]		
	2		
	[1]		
(c)	Look at Fig. 31.1 below carefully.		
	Apart from ramps, name one traffic calming feature you would expect to find here.		
	[1]		
	Source Source Fig. 31.1		

32	(a)	A car costs £15,300. Calculate the monthly repayments over 36 months.	Examine Marks	er Only Remark
		Answer £ [1]		
	(b)	The buyer decides to make a 20% deposit to buy the car, with repayments over 36 months. Calculate the monthly repayments.		
		Answer £ [2]		
	(c)	Calculate the distance a vehicle would travel with a 15 gallon tank and a fuel consumption of 55 mpg.		
		Answer miles [1]		

33	(a)	Name the three actions you should complete on arrival at an accid scene, in order of priority.	Examiner Only Marks Remark
		1	_ [1]
		2	_ [1]
		3	_ [1]
	(b)	At the scene of an accident, list two ways in which you could make vehicle safe.	ea
		1	_ [1]
		2	_ [1]
34	(a)	Apart from the engine, suggest a source of the power for power steering.	
			_ [1]
	(b)	Explain briefly a compression ratio of 12:1, in relation to combustic	
	(c)	List two reasons why regular maintenance checks are necessary of motor vehicle.	on a
		1	_ [1]
		2	_ [1]
	(d)	List two items which you should check weekly on your vehicle.	
		1	_ [1]
		2	_ [1]

35	Give the meaning of each of below, as stated in the Highv		in Fig. 35.1–35.6	Examiner Only Marks Remark
		STOP when lights show		
	Fig. 35.1	Fig. 35.2	Fig. 35.3	
		0		
	Fig. 35.4	Fig. 35.5 © Crown Copyright –	Fig. 35.6 Department for Transport	
	Fig. 35.1		[1	1
	Fig. 35.2		[1]
	Fig. 35.3		[1	1
	Fig. 35.4		[1	1
	Fig. 35.5		[1	1
	Fig. 35.6		[1]
36	(a) Explain briefly why the t	wo second rule is impo	rtant to road safety.	
		·	, 	
			[1]
	(b) When should the two se			
				,
			[1	1

37	(a)	Explain briefly the purpose of a vehicle's suspension system.	Exan Marks	niner Only Remark
			[1]	
	(b)	Explain briefly the purpose of a valve spring.		
			[1]	
			[']	
	(c)	Apart from causing the car to stop, why is it important to make sure that a car's fuel tank is never completely emptied?		
			[1]	
38	(a)	What is a blind spot?		
			[1]	
	(b)	Where should a pedestrian walk, on a country road without a footpath?		
			[1]	
	(c)	Driving on rural roads can be dangerous. Write down two dangers.		
		1	[1]	
		2	[1]	



(c)		Examin Marks	er Only Remark
	Fig. 39.2 © Motor Vehicle and Road Users Studies by Eamonn McPolin,		
	published by Colourpoint Books, 2009. ISBN 9781906578312		
	Name the parts marked 1 and 2 in Fig. 39.2 above.		
	1 [1]		
	2 [1]		
(d)	Explain briefly the function of a clutch.		
	[1]		
(e)	On which side of the clutch in Fig. 39.2 would you expect to find the engine? Answer A or B.		
	[1]		

40	(a)	Apart from resting the night before, list two ways you could prepare for a long car journey.	Examiner Or Marks Ren
		1	[1]
		2	[1]
	(b)	Apart from checking fuel, list two ways you could prepare your vehicle for a long journey.	
		1	[1]
		2	[1]
	(c)	Write down one reason why speed limits are lower on single carriageway roads rather than on dual carriageways or motorways.	
			[1]
41	(a)	The maximum speed limit on a motorway is m	iph. [1]
	(b)	Name the approach road used when joining a motorway.	
			[1]
	(c)	What must you do if you have missed your exit on the motorway?	
			[1]
	(d)	Name two vehicles restricted from using the third, outside lane of a motorway.	
		1	[1]

ly iark

on a motorway.		Marks	Rem
1	_ [1]		
2			
L	_ [']		
Describe briefly what you should do if your vehicle breaks down on a motorway.			
	_ [6]		

Examiner Only

now you can do this	, using the neadings b		
Observation			
Courtesy			

ticipation		Examiner Marks F
	[12]	

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.