

GCSE

ICT

General Certificate of Secondary Education

Unit **B063:** ICT in Context

Mark Scheme for June 2011

OCR (Oxford Cambridge and RSA) is a leading UK awarding body, providing a wide range of qualifications to meet the needs of pupils of all ages and abilities. OCR qualifications include AS/A Levels, Diplomas, GCSEs, OCR Nationals, Functional Skills, Key Skills, Entry Level qualifications, NVQs and vocational qualifications in areas such as IT, business, languages, teaching/training, administration and secretarial skills.

It is also responsible for developing new specifications to meet national requirements and the needs of students and teachers. OCR is a not-for-profit organisation; any surplus made is invested back into the establishment to help towards the development of qualifications and support which keep pace with the changing needs of today's society.

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by Examiners. It does not indicate the details of the discussions which took place at an Examiners' meeting before marking commenced.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the Report on the Examination.

OCR will not enter into any discussion or correspondence in connection with this mark scheme.

© OCR 2011

Any enquiries about publications should be addressed to:

OCR Publications PO Box 5050 Annesley NOTTINGHAM NG15 0DL

Telephone: 0870 770 6622 Facsimile: 01223 552610

E-mail: publications@ocr.org.uk

CBT	Question	n	Answer		Mark	Rationale
1	1	The Debunk Art Gallery use Look at the table below and would be likely to use.			[7]	Deduct 1 mark for each tick over 7.
		Item	Would use	Would not use		
		Facebook ©	✓			
		Wikis [©]		✓		
		Flikr [©]	✓			
		Napster [©]		✓		
		News feeds	✓			
		Blogging ©	✓			
		AdSense ©		✓		

CBT	Question		Answer	Mark	Rationale
2	2		State two advantages and one disadvantage of using a social networking site for the Debunk Art Gallery.	[3]	Accept any sensible answer. Do not accept repeat answers.
			One mark for each valid point.		
			Advantages		
			Easy to inform upcoming events / update members		
			Looks modern		
			Reaches a younger clientele		
			Inexpensive		
			Worldwide / wider audience		
			More publicity / promote the gallery		
			Market research / feedback from members		
			Disadvantages		
			can be time wasting / distracting		
			customers need computer access		
			needs to be managed / updated		
			customers may not have/want to share their details		

CBT	Question 3		Answer		Rationale	
3			Explain three hardware requirements.	[6]	Max 2 marks for a list.	
			Answers – two marks available for each correct reason: 1 mark for each valid point, 1 additional mark for each explanation but the statements must relate to a web server not a normal computer.			
			Processing issues The system will need a large amount of RAM (1) to process the large amount of data used by a server (1). The system will need a high specification processor (1) to deal with the large amount of processing associated with server capabilities (1). The system will require a large hard drive (1) to cope with storage of all the files and software needed for the computers connecting to it. (1)			

СВТ	Qι	uestio	n Answer	Mark	Rationale
4	4	(a)	State four other elements needed on the home page. One mark for each valid point Links to other pages / buttons / tabs Address/contact details Location Logo Images / pictures Opening hours Menu (bar) / navigation bar Sign in / login / register News feed / RSS Banner / Adverts Special event / promotion	[4]	Accept any sensible answer. Do not accept repeats. Do not accept items that should have their own pages e.g. about us, calendar, stock lists
5		(b)	State three other pieces of Information Jim will need to know about the people who will use the new website. Any three things from: gender budget (how much they are prepared to spend) preferences preferred method of accessing the internet IT skills Where they buy most of their art Connection speed Locality / country Purpose of visit e.g. education, artist selling work, potential buyer	[3]	

CBT	Question		n	Answer		Rationale
6		(c)	(i)	Describe the purpose of this code.	[2]	
				Either: one mark for each correct reason, up to 2 marks		
				Or: one mark for each valid point and one additional mark for an expansion.		
				Marks are awarded for saying:		
				o it is to stop automatic entry		
				o from a robot or automated system		
				 that an automated system cannot link to a mobile phone 		
				 also to check that there is a working contact. 		
				 code allows them to activate the account 		

CBT	Qu	estion		Answer	Mark	Rationale
6		(ii)	One mark for a valid point and email activation	that Jim could use. I one additional mark for an expansion	[2]	
			phone themscrambled image or letter	ers (a CAPTCHA image)		
7	5		Identify the data types that Jim 1 mark for each correct field ty	n could use for the following fields.	[3]	Only accept stated answers.
			Name of field	Data type		
			Date of exhibition	date		
			Name of artwork exhibited	Text or Alphanumeric		
			Sold	Y/N (Boolean)/ lookup OR currency		

CBT	Question	Answer	Mark	Rationale
8	6	Explain three reasons why it is important for the gallery to have its own domain name.	[6]	
		One mark for valid reason with a second mark for expansion:		
		 to give the gallery an image of credibility as all company's have there own (unique) domain to give an email address with the galleries name so that customers can easily remember it and know that it is someone from the gallery to avoid being associated with spammers and scammers 		
		 to be more in control of content of the website as domain names often come with hosting to select something easy to remember 		
		Eg:		
		 having their own domain name projects a professional image of the gallery normally associated with large companies it tends to say to others that the gallery staff are a genuine person, operating an established business by doing business under the galleries own domain name, they can use multiple email "aliases" if you ever have to change their service provider, or even move the physical business address of the gallery, it can be an incredible hassle to notify everyone without their own domain name, their internet address would be tied to that of your service provider thus, if they changed providers they would also have to change their web address and probably email address as well. 		

CBT	Question	Answer	Mark	Rationale
9 9	Question 7	Discuss how customers of the Debunk Art Gallery could use a computer based 'Expert' System. This question is marked using the banded mark scheme. The points below are simply indicative of the type of points candidates could make they are not mark points in their own right. Points may include: they could have art experts make comments for the system customers could be sent art based upon the profile they enter it could choose the best art for a customer based upon their preferences it is hard to produce an expert system for art art tastes can vary even with customers who have always purchased the	Mark [8]	Rationale Maximum of 4 marks if the answer is not a discussion. Markers must first look for the most appropriate band. Then award marks for the degree to which the answer fits within the band.
		 same type of art customers may like new art and have no predictable taste art tastes can change over time due to fashion trends prices of art fluctuate rapidly Level 1 (0–3 marks) Candidates may only address some aspects of the question, and give basic descriptions of how an expert system could be used. Answers may be simplistic with little or no relevance to the case study only a basic knowledge of an expert system itself. There will be little or no use of specialist terms. Errors of grammar, punctuation and spelling may be intrusive.		
		Level 2 (4–6 marks) Candidates will address all aspects of the question and discuss/consider different aspects positive and negative aspects of an expert system applied to the context although development of some of the points/implications/advantages/disadvantages/benefits/drawbacks of using these techniques may be one sided or limited. There will be an attempt at a conclusion. Candidates will reference the case study. For the most part the information will be relevant and presented in a structured and coherent format.		

nale

СВТ	Question	Answer	Mark	Rationale
10	Question 8	Describe the term embedded media giving examples of how it could be used on the gallery website. One mark for saying it is about embedding animation, video, movies or animation. One mark for saying that they run in the web browser and don't need a separate application. Up to two marks for examples relevant to the gallery. • Embedded media is where a website has movies or animations (1) that are display within a portion of a Web page rather than in a separate application. (1)	Mark [4]	Rationale
		 embedding code in web pages (1) to play media files from elsewhere (1) The Debunk art gallery could use animations of: Sculptures audio explaining the artwork video files of the artist talking about their work flash games animated banners virtual tours embedding media from other websites e.g. YouTube 		

CBT	Ques	tion Answer	Mark	Rationale
11 11	9	Describe one advantage and one disadvantage of cloud computing for the gallery. One mark for a valid point the second for an expansion which must relate to the gallery. Eg: Advantages The pictures are hosted externally (1) so will be backed up by the provider so the they are never lost (1).* Jim does not need a large server (1) as the images are stored on the cloud server motely. (1) It will be easier for artists to upload the files (1) as they only need to link to the cloud server. (1) Disadvantages	art [4]	*Can allow either one of these but not BOTH.
		Jim has no copy of the images (1) if they are deleted from the cloud server (1)* Because images are large it could take a long time to upload them to the cloud so you need very good internet access. (1) There could be security issues with artists' images (1) as Jim has no control over the remote server, (1) It could be more expensive to use the cloud (1) as images are large and Jim will need to pay for a large server capacity. (1)	r	

CBT	Question	Answer	Mark	Rationale
12	10	Discuss the impact of using e-commerce to buy and sell artwork. This question is marked using the banded mark scheme. The points below are simply indicative of the type of points candidates could make they are not mark points in their own right. Points may include: access to a global audience as makes it easier for people far away to buy without having to travel long distances the gallery is open 24/7 good for niche art works which may be difficult to find delivery time can be long and uncertain over distance returning goods to the gallery is not easy possibility of payment fraud people cannot physically look at the artwork and need to just look at web based images the gallery owner can order when he has a buyer the gallery owner need less physical space to store the artwork. Level 1 (0–3 marks) Candidates may only address some aspects of the question, and give basic descriptions of how e-commerce could be used to either BUY or SELL artwork. Answers may be simplistic with little or no relevance to the case study only a basic knowledge of an expert system itself. There will be little or no use of specialist terms. Errors of grammar, punctuation and spelling may be intrusive.	[8]	Rationale

CBT	Question	Answer	Mark	Rationale
		Level 2 (4–6 marks) Candidates will address all aspects of the question and discuss/consider different aspects positive and negative aspects of BUYING and SELLING over the internet although development of some of the points/implications/advantages/disadvantages/benefits/drawbacks of using these techniques may be one sided or limited. There will be an attempt at a conclusion. Candidates will reference the case study. For the most part the information will be relevant and presented in a structured and coherent format. Specialist terms will be used appropriately and for the most part correctly. There may be occasional errors in grammar, punctuation and spelling.		
		Level 3 (7–8 marks) Candidates will address all aspects of the question and discuss differentpoints/implications/advantages/disadvantages/benefits/drawbacks of to an art gallery of both buying and selling artwork over the internet. The issues raised will be justified. There will be a reasoned conclusion Candidates will reference the case study. The information will be relevant, clear, organised and presented in a structured and coherent format. Specialist terms will be used correctly and appropriately. There will be few, if any, errors in grammar, punctuation and spelling. Only responses that are clearly linked to this concept should be considered.		
TOTAL		[60]		

OCR (Oxford Cambridge and RSA Examinations)
1 Hills Road
Cambridge
CB1 2EU

OCR Customer Contact Centre

14 – 19 Qualifications (General)

Telephone: 01223 553998 Facsimile: 01223 552627

Email: general.qualifications@ocr.org.uk

www.ocr.org.uk

For staff training purposes and as part of our quality assurance programme your call may be recorded or monitored

Oxford Cambridge and RSA Examinations is a Company Limited by Guarantee Registered in England Registered Office; 1 Hills Road, Cambridge, CB1 2EU Registered Company Number: 3484466 OCR is an exempt Charity

OCR (Oxford Cambridge and RSA Examinations) Head office

Telephone: 01223 552552 Facsimile: 01223 552553

