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Information and Communication Technology

Full Course Paper 2 Foundation Tier [G5802] THURSDAY 16 JUNE, AFTERNOON

> MARK SCHEME

1	(a)										AVAILABLE MARKS
		Stud	lent ID	Ex	aminati	on Co	ode				
		1001 GC		GCSE03							
				G	GCSE05						
				CSE01			order				
		1000)	GC	CSE01			irrelevant			
1005 GCSE06			CSE06								
		1002		GC	CSE06						
	(b)	(i)								[4]	
		Field	lname			Data	type				
		Stud	ent ID			Num	eric/Num	ber [1]			
		Exar	nination C	ode			g/Charact	er/Alphanu er/Alphanu			
		Date	of Birth			Date	/DateTime	e [1]			
		(ii)	1							[3]	
Tal	blen	ame	STUDEN	T	STUDI	ENT	STUDE EXAMI	N'I- NATION	EXAMINA	TION	STUDENT
Fie	ldna	me	Forenam	e [1]	Surnar	ne	Examina Code	ation	Examination Name	on	Gender [1]
Cri	teria								ICT	[1]	="F"
		(iii) (Query/Filte	r [1]						[1]	11

(a)	(1)	Optical Mark Recognition [1]/Reader [1]	[1]
	(ii)	One from: National Lottery (NOT Lottery Tickets) [1]/Multiple choice examinations/(Reading/Marking Multiple Choice) [1]/ school register/Attendance [1]	[1]
	(iii)	Two from: Faster processing of documents or data/faster results because of speed of input [1]/Faster than typing/Batch entry of data [1] Improved accuracy [1]/Less mistakes [1]/No human error [1]	2
		Minimal training required [1]	[2]
(b)	(i)	Optical Character Recognition [1]/Reader [1]	[1]
	(ii)	Scanner [1]	[1]

(c)

File type	Meaning	
RTF	Rich Text Format	
JPEG	Joint Photo(graphic) Experts Group	[1]
ТХТ	TEXT	[1]
MPEG	Moving Pictures Experts Group	[1]

3 (a) (i) One from:

To monitor/view order/purchase history [1]/to check credit	
available [1]/to check payments/bills [1]	[1]

(ii) One from:

To check/track the status of a current order [1] to check/track delivery/dispatch of a current order [1] [1]

(b) Two from:

Can shop anytime [1] Can buy goods from anywhere [1] Wider range of products [1] Can shop from home [1]/Products delivered to home [1] More competitive pricing [1] [2]

[1]

9

	(c)	Two from: Larger/worldwide customer base [1] Immediate communication with customers [1] Can sell 24×7 [1] Less overheads [1]/Less staff [1]/Less or No Premises Less money in stock [1] Online database of customers can be maintained [1] Easy updating of product information [1] Cheaper advertising via website [1]	[1]	AVAILABLE MARKS
4	(a)	Two from: Flexible – can be sent/received anytime [1] No paper – an inbox contains all mail [1]/Environment Saves paper [1] Instant delivery of mail [1] Cheaper than ordinary mail [1]/telephone [1]/fax [1] Filtering of email can be done [1] Attachments can be sent [1] Emails can be sent securely [1] Emails can be sent more widely to patients/Multiple per emails [1] Receiver doesn't have to be present [1]		
	(b)	So that he can receive handwritten/signed documents/d No risk from viruses [1]/can be used to send/receive in people do not have email [1]/can be used when the Inte	formation when	
	(c)	Two from: Reports on patients missing appointments/cancelled ap Busiest doctors/peak times [1] Overall time spent with patients [1] Number of appointments per patient [1] Information about an appointment/patient details [1]	pointments [1]	
	(d)	> 2 ticks 0 marks		
		Statement	Tick (✓)	
		SMS means Short Message Service	1	
		SMS can only be sent using a mobile phone		
		SMS can be received when a call is in progress	✓	
		SMS allows users to send photographs		
			[2]	

[1]

AVAILABLE MARKS

		(ii)	Two from: Internet [1] Internet applications [1] (accept 2 separate Internet applications) Email [1] Maps [1] GPS services [1]) [2]	10
5	(a)	(i)	Username [1] Password [1]		
		(ii)	Ensure that only authorized users access data/post information [1]/Unauthorized people cannot access data/post [1]	[2]	
	(b)	Cor	y one from: npressed document [1] cannot be changed [1] table document format [1]/Use it on a variety of platforms [1]	[1]	
	(c)	(i)	Digital Versatile/Video Disk [1]		
		(ii)	Compact Disk – Read Only Memory [1]	[2]	
	(d)	Cor deta	o from: ntacting parents/Staff/Students [1]/printing reports [1]/storing pup ails [1]/payroll [1]/costing using spreadsheets [1]/entering pupils exams [1]/Student attendance [1]/Producing documents [1]	oil [2]	7
6	(a)	(i)	Asymmetric(al) Digital Subscriber Line [1]		
		(ii)	No dial-up [1] ADSL faster connection [1]/Digital line [1] Higher/Wider Bandwidth [1]/Faster download or upload speeds	[1] [2]	
	(b)	(i)	Any one from: Black spots [1] Concerns about health [1] Security/hacking [1] Excessive demand on bandwidth might slow down data transmission [1]	[1]	
		(ii)	Any one from: May attract more customers [1] Can be accessed anywhere in the hotel [1] Residents can add their device to the network [1]	[1]	

	 (i) Any two from: Difficult to monitor staff work how Difficult to help staff if they are has Has to supply them with (expensive May have to pay part of their bills electricity [1] Less security of data files [1] Technology failure [1] (ii) Any one from: No social interaction with colleag Difficult to get work / life balance Never leave work environment [1] Too many distractions [1] 	aving problems [1] we) equipment [1] , e.g. Internet, telephor ues [1]/No teamwork [[1]	[2]	
(1	 (ii) Any one from: No social interaction with colleag Difficult to get work / life balance Never leave work environment [1] 	[1]		
()	[-]		[1]	
	> 2 tiples 0 months		[1]	
(L) > 2 ticks 0 marks			
	Method of communication	Tick (✓)		
	Instant Messaging	<i>✓</i>		
	Video conferencing	✓		
	Fax			
	Email			
			[2]	
(0) > 1 tick 0 marks			
	Job	Tick (✓)		
	Computer programmer			
	Help desk operator			
	Hardware designer			
	ICT technician	<i></i>		
			[1]	6

8	(a)	Any two from: RSI [1] Back Strain [1] Neck Strain [1] Eye strain [1] carpal tunnel syndrome [1] Obesity [1]/Headaches [1] [2]	AVAILABLE MARKS
	(b)	Any two from: Take regular breaks [1] adjustable chair [1] use screen filters [1] ergonomic mouse/keyboard [1] foot rest [1] wrist rest [1] appropriate lighting [1] Tilt screen/Eye level/Distance from screen [1] [2]	
	(c)	Any one from: No food or drink [1] No trailing cables [1] Uncluttered work area [1] Safety test equipment [1]/Use equipment in line with Rules/Instructions [1] No over loading of sockets [1] Switch off when not in use [1] [1]	5
9	(a)	Faster processing of data [1] Faster updating/merging [1] Masterfile can be updated quicker [1] Don't waste time searching for matching records [1] Only has to go through the masterfile once to update the Masterfile [1] [1]	
	(b)	Any one from: Not high enough quality print out [1] Expensive for large volume printing [1] Too slow for high volume printing [1] [1]	
	(c)	Any one from: Saves paper [1]/Environmentally friendly [1] Bills can get lost in the post [1] Saves on cost of postage/paper [1] [1]	
	(d)	Any two from: Data entered by two people/double entry/twice [1]/Checked for similarity/mistakes [1] Two data values compared [1] Don't match [1] Error reported [1]/Rejection/Correction	
		Proof reading [1] – explanation of proofreading [1] [2]	5

10	(a)	Any one from: Less cost [1]/safer for trainees [1]/extreme conditions can be simulated [1] monitor performance [1] cannot cause damage to equipment [1] real life experience [1]	[1]	AVAILABLE MARKS
	(b)	Any two from: Not all factors taken into consideration [1] Expensive to design [1]/Implement/Setup [1]	[2]	
	(c)	Any two from: HMD (Head Mounted Devices)/Headsets/VR Visor/Helmet [1] Gloves [1] Tracking devices/Joysticks/Controller/Balance Board [1] Body suits with sensors [1]	[2]	5
11	(a)	Any three from: Variety of packages available [1] On demand TV/Anytime TV [1] More channels [1] High Definition (HD) TV/Better quality image/sound [1] Play games [1] It is interactive [1] You can send emails [1]/Internet services [1]/Internet connection [1] Includes radio channels [1] You can lock undesirable channels [1] You can program channels to come on automatically/Electronic Program Guide (EPG) [1] Pause live TV/Record and watch at same time [1]	[3]	
	(b)	 (i) Disadvantages to TV companies – Any one from: Cost of hardware for changeover [1] Increased cost of subscriptions – (may loose customers) [1] Increased cost of transmission (via digital communication links) – need to lease or buy new communication links [1] more competition [1] 	[1]	
		 (ii) Reluctance of customer – Any two from: Might not want to purchase new TV with digital box [1] Cost of installation/subscription/Affordability [1] May be happy with analogue TV [1] Might not know how to use digital TV [1] Don't want more channels/will not view all channels [1] 		
		Feeling that analogue more reliable/mistrust of technology [1]	[2]	6
		То	otal	76
		QV	WC	4
		Το	otal	80

The assessment of quality of written communication.

Marks to be allocated for QWC in one of two ways.

Where QWC is to be allocated across 2 marks, the following criteria must be used:

- [2] Accurate spelling and punctuation. Some specialist terms used.
- [1] Reasonably accurate spelling and punctuation. Limited range of specialist terms used.
- [0] Question not attempted.

Where QWC is to be allocated across 3 marks, the following criteria must be used:

- [3] Highly accurate spelling and punctuation. A good range of technical terms used.
- [2] Accurate spelling and punctuation. Some technical terms used.
- [1] Reasonably accurate spelling and punctuation. Limited range of technical terms used.
- [0] Question not attempted.