

# Mark Scheme (Results) January 2011

GCE

GCE Applied ICT (6959/01)  
Communications and Networks

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January 2011

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## Activity 1 – Transmission media

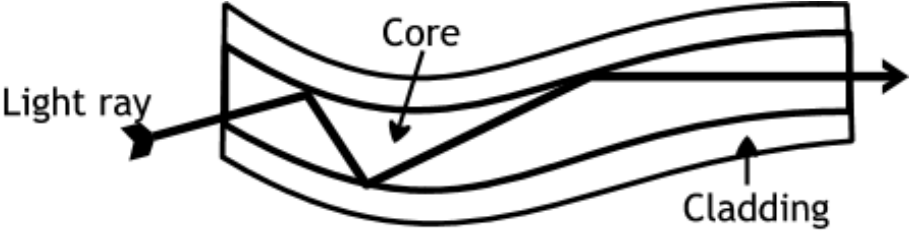
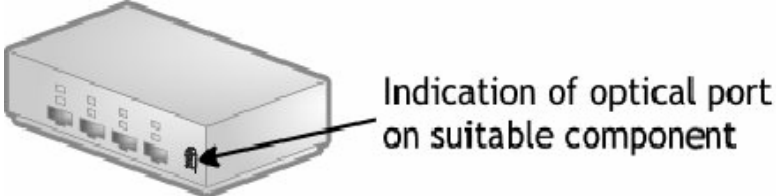

Question Number	Answer	Mark
1	<p>Indicative content: a set of notes for Janet about three contactless systems</p> <p><b>First two methods</b>            For proximity and / or vicinity                diagram shows radio loop / transmitter                diagram shows mobile device containing a circuit / transmitter-receiver            For vicinity                diagram shows radio receiver            For proximity                diagram shows touch pad            Descriptions might include , energy from electromagnetic / EM field from terminal, no batteries / internal power source needed</p> <p><b>Differences between proximity and vicinity</b>            The <b>main (needed)</b> difference is the range. (This may be shown in the diagrams)            Proximity = touch ( 0 - 10 cm)            Vicinity = nearby (1 - 2 metres)  <b>Other differences.</b> ISO numbers, transfer rates, power requirements, security.</p> <p><b>Third method.</b> (No direct contact between the reading device and the object being read.)            A diagram showing a sensible method. e.g. fingerprint / palmprint / other reasonable biometric. Bar coded card / other passive scannable item.  <b>NOT</b> manual methods, e.g. typing entry codes / passwords, workers looking at I.D.</p> <p>A reasonable note about how it works, stating range / must touch.</p> <p>Indicative content for recommendation with reasons.</p> <p>Reasons must relate to the issues given in the scenario:</p> <ol style="list-style-type: none"> <li>The holiday park will be open to day visitors as well as residential guests. Some form of electronic access control will be required at the footbridges to keep the day visitors out of the apartment area.</li> <li>Residential guests will have free use of all the rides, (log flume, rapids ride and boating lake). Day visitors will pay as they go.</li> <li>The rides, bar-cafes, and the ticket office must be connected to the LAN.</li> <li>A residential guest must be able to obtain items at the bar-cafes and charge the cost to their account.</li> <li>People are likely to be wearing only a swimming costume.</li> <li>Residential guests will include children who may use the Water Wonders facilities unaccompanied. Parents must be given a method of restricting a child's privileges. e.g. what they may purchase and which rides they may use.</li> <li>Any access or payment device used in the system must be waterproof, shockproof and robust. It must use contactless technology. (No direct contact between the reading device and the object being read.)</li> <li>There should be a common method of operation for all access and payment points.</li> </ol> <p>Indicative reasons:</p> <ul style="list-style-type: none"> <li>suitable for adults and children. e.g. automatic recognition / no PINs or passwords to remember</li> <li>robust and waterproof. e.g. embedded in plastic / no exterior contacts / no battery needed / solid state / uses a biometric</li> <li>usable for access. e.g. preprogrammed code for footbridges / rides / biometric identifies user / more difficult to copy</li> <li>usable for payment. e.g. individual codes / biometric and connection to accounts computer</li> <li>wearable device such as a wristband. e.g. any sensible suggestion, wristband, belt clip, neck strap / uses a biometric</li> </ul>	(12)

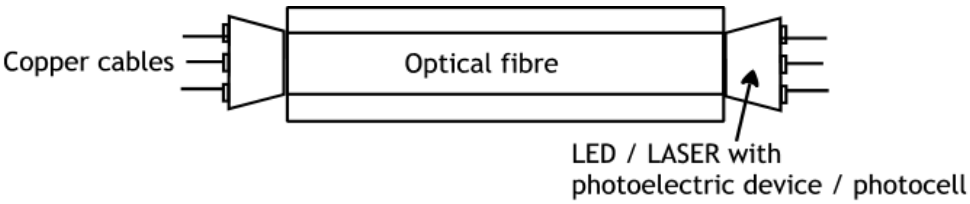
	<ul style="list-style-type: none"><li>• parental controls. e.g. connection to a terminal for parents to choose restrictions / additional information can be added e.g. medical conditions</li><li>• proximity / biometric / barcode better than vicinity for payment and parental control as it requires a positive action (touch) by the user</li><li>• cost comparisons.</li></ul> <p>Reverse arguments as reasons not to recommend are acceptable but would need to address both rejected choices as one point.</p>	
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**QWC for Activity 1**

Level	Mark	Descriptor
0	0	No rewardable material.
Level 1	1-4	<p>Notes have simple diagrams with little or no text. Or have text but no diagrams.</p> <p>Notes have reasons that only address one or two requirements of the scenario. (suitable for adults and children, robust and waterproof, usable for access, usable for payment, wearable device such as a wristband, parental control)</p> <p>The candidate uses everyday language and the response lacks clarity and organisation. Spelling, punctuation and the rules of grammar are used with limited accuracy.</p>
Level 2	5-8	<p>Notes have diagrams or a detailed description for the proximity and vicinity systems that illustrate some technical detail. The text refers to the difference between them.</p> <p>There is some attempt at a contactless third system.</p> <p>Notes have reasons which address at least three of the scenario requirements. (suitable for adults and children, robust and waterproof, usable for access, usable for payment, wearable device such as a wristband, parental control)</p> <p>The candidate uses some terms and shows some focus and organisation. Spelling, punctuation and the rules of grammar are used with some accuracy.</p>
Level 3	9-12	<p>Notes have clear diagrams for the proximity and vicinity systems that illustrate some technical details. The text makes clear the difference between them.</p> <p>There is a sensible description of a contactless third system.</p> <p>Notes have reasons which address at least four of the scenario requirements. (suitable for adults and children, robust and waterproof, usable for access, usable for payment, wearable device such as a wristband, parental control)</p> <p>The candidate uses a range of appropriate terms and shows good focus and organisation. Spelling, punctuation and the rules of grammar used with considerable accuracy.</p>

**Activity 2 - Network connectivity.**

Question Number	Answer	Mark
2 a (i)	<p>Required evidence for 2a and b: training material explaining how the fibre optic connection works</p> <p>2(b) is about fitness for purpose, this should be assessed while marking 2(a)</p> <p>Signal transmission. Example diagram</p>  <p>Any 3 points from: Text and / or diagram indicates:</p> <ul style="list-style-type: none"> <li>• core and cladding (may also have outer coating) (1)</li> <li>• light (ray) reflecting (1)</li> <li>• multiple light paths (1)</li> </ul> <p>Text describes:</p> <ul style="list-style-type: none"> <li>• total internal reflection / difference in refractive index (1)</li> <li>• signal loss due to attenuation / absorption / scattering (1)</li> </ul> <p style="text-align: right;">Maximum 3 marks</p>	3
2 a (ii)	<p>Connection between optic fibre and LAN.</p>  <p>Example diagrams.</p> <p>Any 3 of: Text and / or diagram indicates / describes:</p> <ul style="list-style-type: none"> <li>• named plug and / socket type. e.g. ST, SC, SFP (1)</li> </ul> <p style="text-align: center;">Indication of fibre in a plug / socket / cable end</p>  <ul style="list-style-type: none"> <li>• protruding end of core (exaggerated in example) (1)</li> <li>• connection mechanism. e.g. bayonet, push and twist, push and click (1)</li> <li>• core alignment / centering mechanism (1)</li> </ul> <p style="text-align: right;">Maximum 3 marks</p>	3

<p>2 a (iii)</p>	<p>Conversion between the copper and fibre optic signals. Example diagram.</p>  <p>Any 3 of: Text and / or diagram indicates / describes:</p> <ul style="list-style-type: none"> <li>• LED / LASER / light producing device (1)</li> <li>• light produced by electrical signal (1)</li> <li>• photocell / photoelectric layer / light detecting device (1)</li> <li>• light produces electricity (1)</li> <li>• other good science. e.g. semiconductors</li> </ul> <p style="text-align: right;">Maximum 3 marks</p>	<p>3</p>
<p>2 (b)</p>	<p>Presented as Training material / fit for purpose. 1 mark for each of:</p> <ul style="list-style-type: none"> <li>• Fits neatly on two sides, no page separation of text and related diagram(s), no paragraph split, no large white spaces. (1)</li> <li>• Looks like training material, text with embedded diagrams, set out in sections. (1)</li> <li>• Written in everyday language. (1)</li> </ul> <p style="text-align: right;">Maximum 3 marks</p>	<p>3</p>

		<p>(12)</p>
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### Activity 3 - Components of a network

Question Number	Answer	Mark																																												
3a	<p>Required evidence for</p> <p>A table for submission to Janet which identifies the hardware and cabling components to be used on the <b>Water Wonders</b> site, giving a reason for each component.</p> <p>1 mark per component, with sensible reason. Max 7 Needs to be in context. Allow different numbers if reason justifies.</p> <table border="1" data-bbox="304 517 1369 1962"> <thead> <tr> <th data-bbox="304 517 544 562">Component</th> <th data-bbox="544 517 719 562">Number</th> <th data-bbox="719 517 890 562">Reason</th> <th data-bbox="890 517 1369 562">Notes</th> </tr> </thead> <tbody> <tr> <td data-bbox="304 562 544 651">PC (+screen, keyboard, etc.)</td> <td data-bbox="544 562 719 651">6</td> <td data-bbox="719 562 890 651">3 bar-cafe, 3 rides</td> <td data-bbox="890 562 1369 651">Not 7 without a good reason. Ticket office has one already</td> </tr> <tr> <td data-bbox="304 651 544 801">Switch with fibre optic link capability</td> <td data-bbox="544 651 719 801">1</td> <td data-bbox="719 651 890 801">for centre of star + fibre optic link</td> <td data-bbox="890 651 1369 801">Min of 7 ports. 13 if assume that payment points have own cables Allow switch plus separate optical receiver transmitter</td> </tr> <tr> <td data-bbox="304 801 544 920">Fibre optic cable</td> <td data-bbox="544 801 719 920">150 - 250 m</td> <td data-bbox="719 801 890 920">link between stars</td> <td data-bbox="890 801 1369 920">length depends where candidate sites the switch Allow here OR in next table (3b)</td> </tr> <tr> <td data-bbox="304 920 544 1003">Fibre optic terminators</td> <td data-bbox="544 920 719 1003">2</td> <td data-bbox="719 920 890 1003">link to switches</td> <td data-bbox="890 920 1369 1003">Allow here OR in next table (3b)</td> </tr> <tr> <td data-bbox="304 1003 544 1189">Ethernet cable Cat 5 or better</td> <td data-bbox="544 1003 719 1189">min 2 boxes / 600 m</td> <td data-bbox="719 1003 890 1189">cables to rides + bar-cafes + ticket office</td> <td data-bbox="890 1003 1369 1189">length depends where candidate sites the switch</td> </tr> <tr> <td data-bbox="304 1189 544 1308">RJ 45 ends</td> <td data-bbox="544 1189 719 1308">pack of 25</td> <td data-bbox="719 1189 890 1308">need 2 per cable / patch lead</td> <td data-bbox="890 1189 1369 1308">= 14 for the PCs but may add more</td> </tr> <tr> <td data-bbox="304 1308 544 1426">Patch leads</td> <td data-bbox="544 1308 719 1426">6 to 12</td> <td data-bbox="719 1308 890 1426">data socket to PC etc.</td> <td data-bbox="890 1308 1369 1426">depends on network configuration, check the reason</td> </tr> <tr> <td data-bbox="304 1426 544 1650">Data sockets</td> <td data-bbox="544 1426 719 1650">6 to 12</td> <td data-bbox="719 1426 890 1650">so structural cable does not plug into a PC etc.</td> <td data-bbox="890 1426 1369 1650">depends on network configuration, check the reason</td> </tr> <tr> <td data-bbox="304 1650 544 1830">Internet phone / microphone</td> <td data-bbox="544 1650 719 1830">7</td> <td data-bbox="719 1650 890 1830">6 new PCs, 1 in ticket office, all need VoIP</td> <td data-bbox="890 1650 1369 1830"><b>NOT</b> a standard telephone. Must be something that can connect to the network. e.g. a VoIP phone / PC microphone / headset.</td> </tr> <tr> <td data-bbox="304 1830 544 1962">Patch panel</td> <td data-bbox="544 1830 719 1962">1</td> <td data-bbox="719 1830 890 1962">To organise cabling at the switch</td> <td data-bbox="890 1830 1369 1962">not a requirement, allow with a sensible reason</td> </tr> </tbody> </table>	Component	Number	Reason	Notes	PC (+screen, keyboard, etc.)	6	3 bar-cafe, 3 rides	Not 7 without a good reason. Ticket office has one already	Switch with fibre optic link capability	1	for centre of star + fibre optic link	Min of 7 ports. 13 if assume that payment points have own cables Allow switch plus separate optical receiver transmitter	Fibre optic cable	150 - 250 m	link between stars	length depends where candidate sites the switch Allow here OR in next table (3b)	Fibre optic terminators	2	link to switches	Allow here OR in next table (3b)	Ethernet cable Cat 5 or better	min 2 boxes / 600 m	cables to rides + bar-cafes + ticket office	length depends where candidate sites the switch	RJ 45 ends	pack of 25	need 2 per cable / patch lead	= 14 for the PCs but may add more	Patch leads	6 to 12	data socket to PC etc.	depends on network configuration, check the reason	Data sockets	6 to 12	so structural cable does not plug into a PC etc.	depends on network configuration, check the reason	Internet phone / microphone	7	6 new PCs, 1 in ticket office, all need VoIP	<b>NOT</b> a standard telephone. Must be something that can connect to the network. e.g. a VoIP phone / PC microphone / headset.	Patch panel	1	To organise cabling at the switch	not a requirement, allow with a sensible reason	7
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3b

Required evidence for 3b

A table for submission to Janet which identifies the hardware and cabling components to be used on the **apartments site**, giving a reason for each component

**1 mark per component, with sensible reason.**

**Needs to be in context. Allow different numbers if reason justifies.**

**Max 9** 9

Component	Number	Reason	Notes
PC (+screen, keyboard, etc.)	min 2	1 for restaurant, 1 for Internet cafe	<b>NOT</b> including the 5 already present. Will probably have more than 1 in Internet cafe.
Server	1 or 2	control network	may have server + backup
Switch with fibre optic link capability	1	for centre of star + fibre optic link	Min of 9 ports, more for expansion and extra Internet Cafe PCs Allow switch plus separate optical receiver transmitter
Router	1	for Internet	needs to be telephone broadband
Fibre optic cable	150 - 250 m	link between stars	length depends where candidate sites the switch Allow here <b>OR</b> in previous table (3a)
Fibre optic terminators	2	link to switches	Allow here <b>OR</b> in previous table (3a)
Ethernet cable Cat 5 or better	min 1 box / 300 m	cables for reception etc.	length depends where candidate sites the switch
RJ 45 ends	pack of 25	need 2 per cable / patch lead	= 18 for the PCs / printers but may add more for Internet Cafe
Patch leads	min 9	data socket to PC etc.	depends on network configuration, check the reason and PC numbers
Data sockets	min 9	so structural cable does not plug into a PC etc.	depends on network configuration, check the reason
Internet phone / microphone	min 6	5 old PCs + restaurant, all need VoIP	<b>NOT</b> a standard telephone. Must be something that can connect to the network. e.g. a VoIP phone / PC microphone / headset. May be on Internet cafe PCs as well
Patch panel	1	to organise switch cabling	not a requirement, allow with a sensible reason
Specific printer	1	restaurant	Required by scenario
Other sensible			Must be justified and in context

3c

Required evidence for 3c

A table for submission to Janet which identifies the software components to be used in the design

1 mark per component, with sensible reason.

Max 5

5

Component	Reason	Notes
Network / server OS	to control the network	probably Windows Server 2008 but allow other sensible
Workstation OS	to run PCs	Probably Windows 7 but allow other sensible
Anti-virus	network has Internet Cafe / connection to Internet	any reasonable version, e.g. Sophos, Norton May be part of OS
Anti-malware	network has Internet Cafe / connection to Internet	any reasonable version, e.g. Spybot, Ad-aware, Defender May be part of OS
Firewall / filter	network has Internet Cafe / connection to Internet	any reasonable version, e.g. Zone Alarm, Outpost May be part of OS
VoIP software	required by scenario	any reasonable version, e.g. Skype, Live Messenger
Other sensible	must match scenario	Not OFFICE software, etc.

(21)

### Activity 4 – Network Design

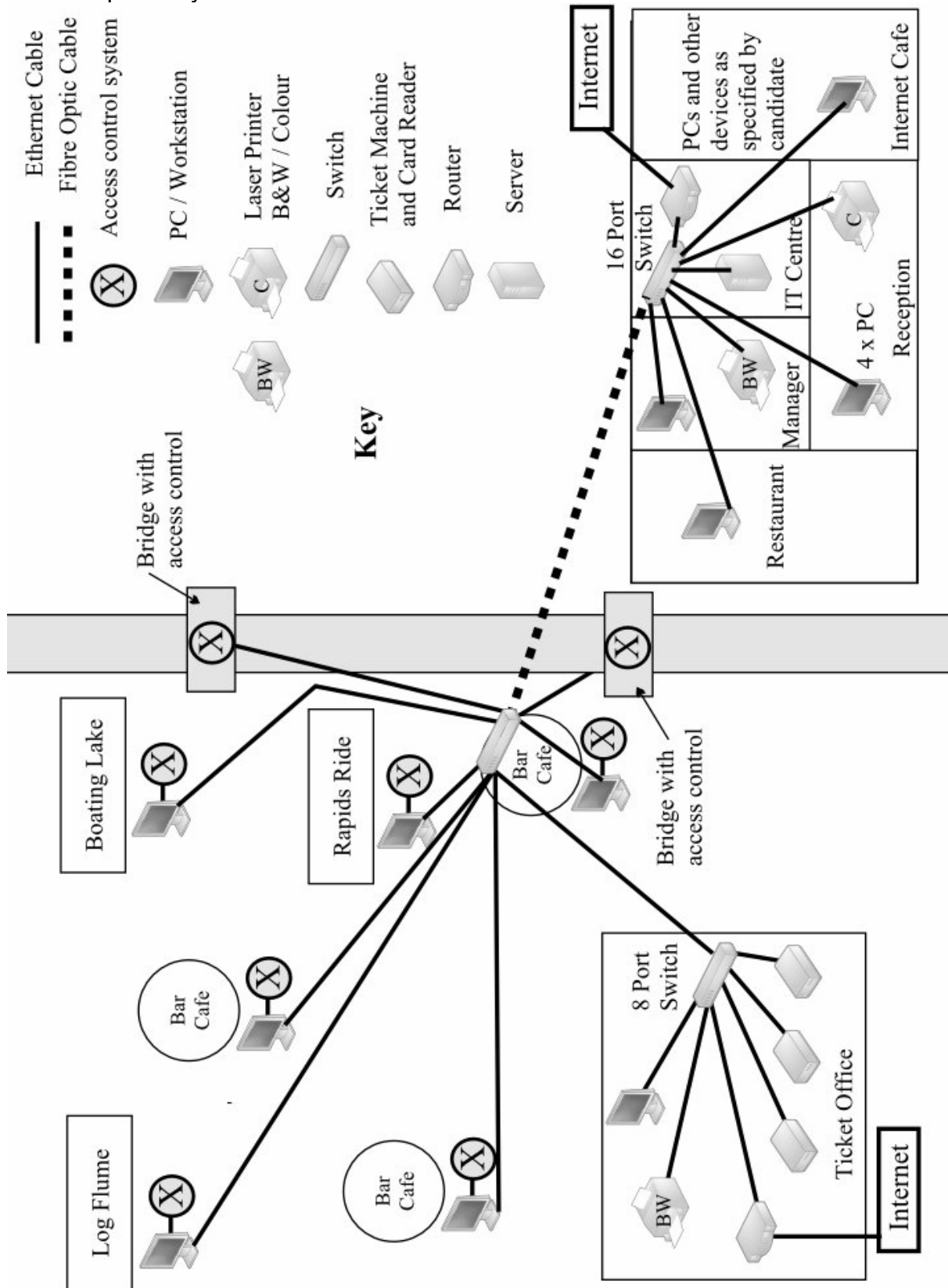
Question Number	Answer	Mark
4a	<p>Required evidence for 4a:  <b>a network design for the complete project</b></p> <p>a) Diagram shows; 3 rides, 3 bar-cafes, ticket office, reception block with restaurant and Internet Cafe.            b) Diagram shows access control system for footbridges.            c) Cable type(s) identified.            d) Each ride has PC and access control system.            e) Each bar-cafe has PC and access control system.            f) Ticket office has PC and networked printer.            g) Ticket office has router.            h) Ticket office has Internet connection.            i) Ticket office has three networked ticket machines.            j) Ticket office has an (8 port) switch.            k) Water Wonders site, has a central switch in a sensible location.                Not in ticket office.              With fibre connection to q            l) Reception has 4 pcs and a networked colour laser printer.            m) Manager's office has PC and a networked B/W laser printer.            n) Restaurant has a PC and printer            o) Internet Cafe has equipment as specified by candidate.            p) Server in sensible position. (not used as a switch, max 3 connections)            q) Reception block has central switch (16 port) in sensible position.                With fibre connection to k            r) Reception block has router.            s) Sensible routes from server to router &amp; switch.            t) Reception / Internet Cafe has Internet connection.</p> <p style="text-align: right;">Max 16 marks</p>	16
4b	<p>Required evidence for 4b            An explanation and justification of decisions made regarding the positioning of network devices and equipment.</p> <p>There are no marks for descriptions of what is on the diagram.</p> <p>1 mark per explanation which justifies a positioning decision, to a maximum of 6.            1 mark per explanation which justifies a general network decision, to a maximum of 3            Maximum total of 6.</p> <p>e.g. The Internet Cafe has 6 PCs = 0                The Internet Cafe has 6 PCs so that routine maintenance of a machine will not prevent guests from having Internet access / so that guests are less likely to complain about having to queue for access. = 1</p> <p>Answers may include:</p> <ul style="list-style-type: none"> <li>• Server position</li> <li>• Apartments site, router position</li> <li>• Network protection / security measures</li> <li>• Internet Cafe PC numbers</li> </ul>	6

- Internet Cafe connection
- Internet Cafe security
- Internet Cafe location
- Water Wonders site, switch position
- Expansion provision

(22)

**Network Diagram. NOTE. This diagram:**

- is drawn to illustrate all of the marking points
- is **not** the only answer
- is probably not the best answer



Activity 5 - Network addressing and protocols

Question Number	Answer	Mark																
5a	<p>Required evidence for 5a: All addresses given must be 192.168.1.X</p> <table border="1"> <thead> <tr> <th>Static / dynamic with device</th> <th>Justification</th> </tr> </thead> <tbody> <tr> <td>(a) Static address for server (1)</td> <td>(b) Server runs the system / DHCP so cannot be in DHCP / dynamic (1)</td> </tr> <tr> <td>(c) Static address for router (1)</td> <td>(d) routers are gateways, addresses must be fixed (1)</td> </tr> <tr> <td>(e) Static address for networked printer (1)</td> <td>f) e.g. Printer remote admin (1)</td> </tr> <tr> <td colspan="2">(g) Static or Dynamic addresses for PCs, with justification (1)</td> </tr> <tr> <td>(h) Static for access / payment points (1)</td> <td>(i) e.g. remote admin, checking child privileges at each point (1)</td> </tr> <tr> <td colspan="2">(j) Static or Dynamic addresses for ticket machines, with justification. (1)</td> </tr> <tr> <td colspan="2">(k) Explanation of reservations / scopes / leases in DHCP (1)</td> </tr> </tbody> </table> <p>Mark may be given as a bonus in any of the above</p> <p style="text-align: right;">1 mark each to a maximum of 8 marks</p>	Static / dynamic with device	Justification	(a) Static address for server (1)	(b) Server runs the system / DHCP so cannot be in DHCP / dynamic (1)	(c) Static address for router (1)	(d) routers are gateways, addresses must be fixed (1)	(e) Static address for networked printer (1)	f) e.g. Printer remote admin (1)	(g) Static or Dynamic addresses for PCs, with justification (1)		(h) Static for access / payment points (1)	(i) e.g. remote admin, checking child privileges at each point (1)	(j) Static or Dynamic addresses for ticket machines, with justification. (1)		(k) Explanation of reservations / scopes / leases in DHCP (1)		8
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Question Number	Answer	Mark
5b	<p>Required evidence for 5b: Explanation of why having two similar Class C networks will not cause a problem.</p> <p>Any 5 of:</p> <ul style="list-style-type: none"> <li>• both networks are private</li> <li>• explanation of what private means</li> <li>• communication uses routers</li> <li>• routers have public addresses</li> <li>• the public addresses hide / mask the private ones</li> <li>• explanation of Network Address Translation being used</li> </ul> <p style="text-align: right;">Maximum 5 marks</p>	5

Question Number	Answer	Mark														
5c	<p>Required evidence for 5c:            A list and brief description of some common VoiP features.            Any sensible feature with a description. 1 mark to max of 6            Description indicates a business use, in the context of Water Wonders 1 mark</p> <table border="1" data-bbox="352 577 1347 1317"> <thead> <tr> <th data-bbox="352 577 815 667">Example features</th> <th data-bbox="815 577 1347 667">Example of how it is used in context</th> </tr> </thead> <tbody> <tr> <td data-bbox="352 667 815 797">voice mail</td> <td data-bbox="815 667 1347 797">To allow messages to be left for the manager if they away from their desk.</td> </tr> <tr> <td data-bbox="352 797 815 927">text communication and attachments /file sending</td> <td data-bbox="815 797 1347 927">To allow documents to be sent from London - Spain during a video conference call</td> </tr> <tr> <td data-bbox="352 927 815 1034">video communication</td> <td data-bbox="815 927 1347 1034">Video conferencing between management in London and Spain</td> </tr> <tr> <td data-bbox="352 1034 815 1160">conference / multi-way calls</td> <td data-bbox="815 1034 1347 1160">Allows all staff at e.g. the bar-cafes to be given instructions at the same time</td> </tr> <tr> <td data-bbox="352 1160 815 1258">Call logging</td> <td data-bbox="815 1160 1347 1258">Enables management to track usage / abuse by staff.</td> </tr> <tr> <td data-bbox="352 1258 815 1317">Other sensible X3</td> <td data-bbox="815 1258 1347 1317">In context</td> </tr> </tbody> </table> <p style="text-align: right;">Maximum 8 marks</p>	Example features	Example of how it is used in context	voice mail	To allow messages to be left for the manager if they away from their desk.	text communication and attachments /file sending	To allow documents to be sent from London - Spain during a video conference call	video communication	Video conferencing between management in London and Spain	conference / multi-way calls	Allows all staff at e.g. the bar-cafes to be given instructions at the same time	Call logging	Enables management to track usage / abuse by staff.	Other sensible X3	In context	8
Example features	Example of how it is used in context															
voice mail	To allow messages to be left for the manager if they away from their desk.															
text communication and attachments /file sending	To allow documents to be sent from London - Spain during a video conference call															
video communication	Video conferencing between management in London and Spain															
conference / multi-way calls	Allows all staff at e.g. the bar-cafes to be given instructions at the same time															
Call logging	Enables management to track usage / abuse by staff.															
Other sensible X3	In context															

**Standard ways of working. 2 Marks**

**All printouts must have a header and a footer. The header must contain the activity number. The footer must contain your name, candidate number and centre number.  
 Minimum font size of 10 should be used for all word processed documents.**

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