Cundidates' Performance

paper 1A psper 1A performance was generally satisfactory with an System Fundamentals.' Post-examination item analysis revealed the following Applications: paper consisted of 40 managements. Candidates' performance was generally satisfactory with a split of 27 questions answered correctly. They performed better in 'Internet and its Applications' and worse in the consistency of 25 questions of 27 questions o

Question 2 tests two's complement representation. Only about half of the candidates answered correctly. Question 2 tests two s comprehens representation. Only about half of the candidates answered correctly.

Candidates were weak in data representation, which is essential for understanding the mechanism of the

Which of the following decimal values is equivalent to 1010 0001 in 8-bit two's complement 0.2

A. B.	33 -33	ou (MO, 2 combicates
C.		
. D	-95	(9%)
ע י.	-70	(15%)
		(23%)
		(Fag.)

Question 8 tests candidates' knowledge of document formats. A third of the candidates were not aware that Question 8 tests of the candidates were not aware that both PDF and DOC files can include multimedia elements. A quarter of the candidates thought that DOC both PDF and be encrypted. It seems that candidates did not thoroughly understand the use of PDF and 2. files could not could they justify their usage. They demonstrated a basic understanding of document

- Mary sends an email with a document in PDF instead of DOC format. What is/are the possible Q.8
 - (1) The document can be encrypted.

1.

- (2) The page layout of the document can be preserved.
- (3) Multimedia elements can be included.

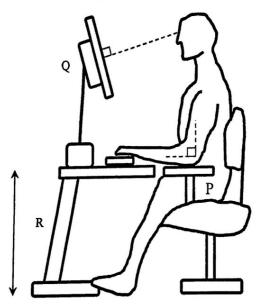
A. (1) only	
* B. (2) only	(13%)
C. (1) and (3) only	(41%)
D. (2) and (3) only	(13%)
	(33%)

- Question 9 tests candidates' ability to integrate knowledge of office automation software. From the response figures, it seems that weaker candidates thought that a pivot table in spreadsheet was a tool for 3. designing and producing result slips. They probably lacked practical experience in using pivot tables and creating reports in database software.
 - Ms Li plans to design and produce student result slips using student information and examination 0.9 marks stored in a database. What should she do?

B. C.	Create reports using database software. Create hyperlinks to the database using word processing software. Create SQL commands using spreadsheet software. Import data and create a pivot table using spreadsheet software.	(39%) (8%) (13%) (40%)
D.	import data and create a proof table using spreadsneer software.	(40%)

- In Question 22, only a third of the candidates demonstrated comprehensive knowledge and understanding of a Chos In Question 22, only a third of the candidates demonstrated comprehensive and functions of a CPU. 4. registers and data buses.
 - Which of the following statements about the components in a computer is not correct? Q.22
 - A. The arithmetic and logic unit (ALU) is used to perform arithmetic operations.
 - B. The accumulator is a register that stores arithmetic and logic results.
 - (5%) C. The data transfer rate of registers is higher than that of the main memory. (21%)
 - C. The data transfer rate of registers is higher the main board and input/output

 D. Data buses are used to transfer control signals between the main board and input/output (41%) devices. (33%)
- In Question 40, the majority of candidates wrongly thought that the angle of the armrest should be In Question 40, the majority of candidates wrongly mought and adequate width be adjustable. Good ergonomic practices for armrests include adjustable height and adequate width and adjustable. Candidates should ob-5. adjustable. Good ergonomic practices for affilies included in our daily life. Candidates should and length, but not an adjustable angle, which can be easily found in our daily life. Candidates should observe length, but not an adjustable angle, which can be easily found in our daily life. Candidates should observe the ICT applications around them and strengthen their understanding of ICT knowledge.
 - The picture below illustrates good ergonomic practices for using a computer. Q.40



Which of the following settings are necessary?

- (1) The angle of the armrest at P should be adjustable.
- (2) The angle of the display unit at Q should be adjustable.
- (3) The height of the table at R should be adjustable.

A. (1) and (2) only	(13%)
B. (1) and (3) only	(3%)
* C. (2) and (3) only	(26%)
D. (1), (2) and (3)	(58%)

(a) (b) (c) (d) (d) (e) (d) (e) (e) (f) (e) (f) (f) (g) (g) (g) (g) (g) (g	Question Question	Performance in General
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(c) (d) (d) (e) (d) (e) (d) (e) (e	(N)	can bigh proportion of a validation of a validation
(c) (d) (d) (e) (d) (e) (d) (e) (e		Good. A mgn proportion of candidates gave the
(c) (d) (d) (e) (d) (e) (d) (e) (e	(b)	Satisfactory. About half of the candidates
consideration after the data preparation. The computation arrangement was unrelated to the issue raised during the data preparation result regarding that the use of '0' would candidates correctly stated the need to identify and discard-l as a precaution in data processing related concepts seems to be weak. (d) Proportion gave wrong cell addresses in the formula in (d)(ii). Their understanding of the that system software was pre-installed in the computer whereas application software sold depending on the arrangement of related manufacturers. Some other candidates scored in the computer, the application software weaker candidates overlooked the differences required in the application. (a) Satisfactory. While about half of the candidates answered correctly, some wrongly answered depending on the arrangement of related manufacturers. Some other candidates scored in marks as they just listed the characteristics of system software without any comparison with the application software. Weaker candidates overlooked the differences required in the application. (b) Satisfactory. Satisfactory. Weaker candidates failed to give correct contents of A and B in (c)(i) though they did give the correct answer in (b). The ability to trace algorithms seems to be weak design was very limited. (d) Satisfactory. The majority of candidates wrote the assignment statement to set A, but failed write the correct statement to set B. It seems that they were weak in modifying algorithms. Satisfactory. Weaker candidates wrongly used 1,000 instead of 1,024 to calculate the store packets and the use of IP addressing. In (a)(iv), weaker candidates wrongly stated network bandwidth, as a technical issue related to streaming. (d) Good. Stronger candidates explained the importance of brightness to be provided or control when the potential issue of the glare on the display unit.	(c)	1 to
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(c) Good. Weaker candidates gave some vague answers such as 'eye' as another biometers.	(c)	Good. Weaker candidates gave some vague answers such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' as another biometrication in (c)(i) which was too general and could not be a such as 'eye' a
A STAN A		authentication in (c)(i) which was too general and could not be awarded any marks. The existing technology relates to the iris, not the eye.

4	(a)	Fair. Weaker candidates wrongly answered 'router' as the connecting device in (a)(i). In they wrongly thought that a function provided by the dedicated terminal, such as displaying ordered food, was a network service provided by the server. Satisfactory. In (b)(i), the buttons on the sample screen allowed users to input at the
	(b)	one by one, which could help minimise input errors, but users might arm whole
	(c)	Satisfactory. The majority of candidates gave one reason to support the use of thermal neither than the support the use of the support the use
	(d)	in self-service kiosks. Satisfactory. In (d)(i), the majority of candidates correctly stated that less manpower would be needed on the dedicated terminals, but they ignored the task generated by maintaining the service kiosks. Their understanding of the concept of the change in the nature of work seeing
5	(a)	Good.
	(b)	Satisfactory. In (b)(ii), weaker candidates wrongly gave 1 as the first bit in the bit pattern due to the first column of the first row being a black pixel. In (b)(iii), almost all incorrect answers were 128, showing that weaker candidates did not fully understand the data representation of the display.
	(c)	Fair. In (c)(ii), as there were no repeated, identical rows in the display, it was not necessary to take care of the number of occurrences of the row of pixels in the bit patterns. Hence, Method 2 was identical to Method 1 in the display of the pixels. Weaker candidates attempted to handle the issue regarding repeated rows, resulting in a wrong conclusion.

per 2A	Performan
Question Number	Performance in General poor. Only a small number of candidates:
Null (a)	primary key in the database table Na
(8)	Weaker candidates did
	Good. Weather states did not use single or the single of the language (MID+VID4)
(b)	Performance in General poor. Only a small number of candidates identified the attributes (MID+VID+RDATE) as the Good. Weaker candidates did not use single or double quotes in a string or attribute. Satisfactory. Weaker candidates wrongly used COUNTS.
(c)	poor. Only a small number of candidates identified the attributes (MID+VID+RDATE) as the Good. Weaker candidates did not use single or double quotes in a string constant. Satisfactory. Weaker candidates wrongly used COUNT instead of SUM. Satisfactory. Weaker candidates used LEFT OUTER JOIN to provide the correct solution. Very good. Nearly all candidates gave the pure
(d)	Good. The majority of candidates used LEFT OUTER JOIN to provide the correct solution. Satisfactory. Weaker candidates did not use YEAR properly. They also wrongly provided an Good. About two thirds of candidates identice.
	not use visit to provide the statement.
(e)	Very good. Nearly all candidates gave the purpose of the SQL statement. Good. About two thirds of candidates identified the two problems. Weaker candidates did not provided the two problems.
	Very good. Nearly all candidates gave the
(f)	Good. About two thirds of candidate purpose of the SO
(a)	solutions. Weaker candidates did not solutions weaker candidates did not solutions.
1	1. Also tillo dotoles
	Very good. Nearly all candidates gave the purpose of the SQL statement. Good. About two thirds of candidates identified the two problems and provided corresponding codes in the two database tables. Good. A high proportion of candidates complete the problem of duplicated identified the problem of duplicat
(b)	1 4-4 the millioni cardinalla. "Villoletata"
(0)	two relational and Work
(0)	Good. About two thirds of candidates described how data mining techniques improve the order form. Good. Weaker candidates provided a design without.
(c)	company business. However, some candidates did now data mining technic
	order form appropriate description of the little appropriate descripti
. 0	Good. Weaker candidates provided a design without
(d)	them missed the date range in the date of
	Good. Nearly all candidates completed the con-
(a)	them omitted the constraint of the SID attributed TABLE statement A
,	Good. Nearly all candidates completed the CREATE TABLE statement. A small number of
(b)	Sanstactory.
	Good. A high proportion of candidates identified the two problems during the failure of of the NAME attribute.
(c)	execution of the SQL statement. Only a small number identify the failure of
	Producti of the pull wat
	- 4-factory A high proportion of any 111
(d)	in the summary report. However, some primary key among the data items
	in the summary report. However, some primary keys were wrongly assigned and the normalisation was not in 3NF.
	A high proportion of W
(a)	Satisfactory. A high proportion of candidates stated the two stages with the usage of the tools accordingly. However, some candidates did not properly provide the
(4)	properly provide deliverships for the test
41	Satisfactory. A fight proportion of candidates described the reason forms.
(b)	all the territory water amendian and that the difference between core
	suggest two benefits of using SQL3.

Paper 2B

Pa	per 2B	Performance in General
Γ	Question Number	didates demonstrated an adequate understanding
-	(a)	Satisfactory. The majority of candidates demonstrated an adequate understanding of the characteristics of various wireless technologies.
1.	(-)	Satisfactory. The characteristics of various wireless technology characteristics and the various wireless than the various wirel
	(b)	of WPAN.
	(c)	Satisfactory. Good. In (ii), a high proportion of candidates correctly answered that UPS can provide a good. In (ii), a high proportion of candidates correctly answered that UPS can provide a good. In (ii), a high proportion of candidates correctly answered that UPS can provide a good. In (ii), a high proportion of candidates correctly answered that UPS can provide a good. In (ii), a high proportion of candidates correctly answered that UPS can provide a good. In (ii), a high proportion of candidates correctly answered that UPS can provide a good. In (ii), a high proportion of candidates correctly answered that UPS can provide a good. In (ii), a high proportion of candidates correctly answered that UPS can provide a good. In (ii), a high proportion of candidates correctly answered that UPS can provide a good. In (ii), a high proportion of candidates correctly answered that ups can provide a good. In (iii), a high proportion of candidates correctly answered that ups can provide a good of the good of
	(d)	temporary power supplying can provide a steady power supply
		half failed to state that of
2	(a)	Good. In (ii), about half of the candidates spoots be required for sending data if the channel is not clear.
	(b)	Satisfactory. Satisfactory. About half of the candidates were aware of the encryption/decryption function of
	(c)	I ATTION O
	(d)	Poor Only a very small number of candidates were aware of the disc of MAC address filtering
	(-)	for network access control. Satisfactory. About half of the candidates demonstrated an adequate understanding of the use
	(e)	of communication protocols and their techniques
3	(a)	Poor. Only a small number of candidates demonstrated an adequate understanding of half duplex communication mode.
	(b)	Very good.
	(c)	Satisfactory.
	(d)	Satisfactory. Weaker candidates misunderstood network addressing and gave unreasonable subnet ranges and subnet masks.
	(e)	Satisfactory.
	(a)	Satisfactory.
	(b)	Poor.
		Fair. Weaker candidates were not able to identify the limitations of P2P networks.
		Good. Candidates demonstrated a sound knowledge of network design. They correctly identified the locations of the various network devices. Some candidates were not aware of the limitations of having 5 ports in the router and 32 ports in each switch and made wrong network connections.
	(e)	Good.

paper 2C	Performance in General
Question Question	Fair. Candidates in general calculated the file size of the audio and video part of a video. However, some candidates wrongly took the bit rate into the calculation, showing that they good. The majority of candidates chose appropriate specification. Only about a great of a video file.
	Fair. Some candidates wrongly took the file size of the
(a)	Howe not familiar with the concept of the bit rate into the calculation, and video part of a video. Very good. The majority of candidates chose appropriate specifications of a video that they authentic situations. Satisfactory. Only about a quarter of candidates correctly suggest that they can were not aware of the candidates correctly suggest that they have the satisfactory were not aware of the candidates correctly suggest the satisfactory.
Yı .	good. The majority of candidates of a video file calculation, should be a video file
1 .	
(6)	A ALAPY VIII Y GUVUL M CINGMAN A
1	Satisfactory effect while weaker candidates correct
(c)	andidates were not aware of the provision of its with suggested diff.
	suthentic situations. Satisfactory. Only about a quarter of candidates correctly suggested different uses of the provider. Less than half of the candidates had a clear under the viewers in the state of the provider.
	COOKS IN INSIGHT OF INSIGHT
_	Good. Candidates were familiar with the concept of vector images, but less than half correctly satisfactory. Candidates in general named only one edition.
(a)	gave two advantages of using such images. At images At images At images At images.
2	flipping, rotation and layering to explain clearly how of candidates than half com-
′	catisfactory. Candidates in general named
(6)	refine a photo. Only a small number of candidate only one editing effect
(0)	flipping, rotation and tayering to explain clearly how to create the logo. Satisfactory. Candidates in general named only one editing effect other than brightening to end resizing are crucial to creating the composite photo from the two given photos. Good. Candidates in general were familiar with the concept of an editing effect other than brightening to control of the two given photos.
	Candidates in general were familiary photo from the two gives asparency lavered
(c)	guarter correctly calculated the minimum with the concent of
(0)	and resizing the composite photo from the two given photos. Good. Candidates in general were familiar with the concept of aspect ratios. However, only a printing resolution. Fair. About a third of candidates named the three
	Fair. About a third of candidates named the three and four primary colors used in RGB and CYMK. RGB and CYMK.
(4)	Fair. About a standard samed the three and four miles
(d)	Fair. About a third of candidates named the three and four primary colors used in RGB and CYMK. RGB and CYMK. Good. The majority of candidates suggested and colors used in RGB and colors.
	C C C C C C C C C C C C C C C C C C C
	Good. The majority of candidates suggested at least one design feature to address the given issues and most of them gave pull-down menu, checkbox and autocorrection as their
(a)	issues and most of them gave pull-down menu, checkbox and feature to address the
,	Good. The majority of candidates suggested at least one design feature to address the given issues and most of them gave pull-down menu, checkbox and autocorrection as their answers. Web design features to address the given issues. However, more than half were near into user-friendly, was also one of the given issues and in order to address the given issues.
(b)	Good. A high proportion of candidates showed a sound understanding of how to use different 'not user-friendly' was also one of the given issues and their proposed new decimal that not easily used by users.
	'not user-friendly' was also one of the given issues and it more than half were not an
	web design features to address the given issues. However, more than half were not aware that not easily used by users. A very small number of
	Very poor. A very small number of candidates demonstrated an adequate understanding of the usage of cascading style sheets (CSS), especially the application with several methods.
(c)	Very poor. A very small number of candidates demonstrated an adequate understanding of the usage of cascading style sheets (CSS), especially the application with several web pages in the
	usage of the lush site.
	web pages in the
<i>(</i> 4)	Poor. Only about a quarter of candidates explained clearly that information sent and received with the page is not encrypted and thus could potentially be stolen and the stolen are less than the page is not encrypted and thus could potentially be stolen and the stolen are less than the page is not encrypted and thus could potentially be stolen are less than the page is not encrypted and thus could potentially be stolen are less than the page is not encrypted and thus could potentially be stolen are less than the page is not encrypted and thus could potentially be stolen are less than the page is not encrypted and thus could potentially be stolen are less than the page is not encrypted and thus could potentially be stolen are less than the page is not encrypted and thus could potentially be stolen are less than the page is not encrypted and thus could potentially be stolen are less than the page is not encrypted and thus could potentially be stolen are less than the page is not encrypted and thus could potentially be stolen are less than the page is not encrypted and thus could potentially be stolen are less than the page is not encrypted and thus could potentially be stolen are less than the page is not encrypted and thus could potentially be stolen are less than the page is not encrypted and the page is
(d)	with the page is not encrypted and thus could potentially be stolen, read, or modified by hackers. Nevertheless, some weaker candidates were able to name SSI.
	hackers. Nevertheless, some weaker candidates were able to name SSL or HTTPS to try to
	address this issue.
	Poor Just under a third of candidates justice !
(a)	Poor. Just under a third of candidates justified and explained clearly why client-side and server- side validation should be carried out in different situations. A high proportion of candidates were not aware that the workload of the server was also crucial to the element of candidates
	side variations should be carried out in different situations. A high proportion of candidates
	and of detail to the choice of the violation
(b)	Good. Candidates in general showed a sound understanding of the control of the co
(0)	web design features to address accessibility for disabled persons.
(c)	Good. About half of the candidates traced the given script and filled in correctly most of the
	missing pairs of the script. However, some were weak in conditional statement
	comparison. A small number did not answer this part, probably showing that they were weather
	at scripting.
(d)	Poor. About half of the candidates suggested using third-party hosting or cloud service as
	MOOF A POINT POINT OF THE CONDICATOR CHARGE AND AND A SHIP AND

Question Number Recellent. Nearly all the candidates traced the simple pseudocode with a sequential flow (b) Good. The majority of candidates traced the pseudocode with looping.	Paper 20	Performance in General
(b) Good. In (c)(i), a very high proportion of candidates traced and understand the outcome pseudocode. In (c)(ii), only about a third of candidates provided correct parameters if pseudocode. In (c)(ii), only about a third of candidates provided correct parameters if pseudocode. In (c)(ii), only about a third of candidates provided correct parameters if pseudocode. In (c)(iii), only about a didates demonstrated a basic understanding of condidates parameter. Satisfactory. In general, candidates demonstrated a basic understanding of condidates parameter became a negative value and they did not use the absolute value in the parameter became a negative value and they did not use the absolute value in the parameter. Fair. Only about a quarter of candidates explained precisely the use of Gantt charts. Fair. Only about a quarter of candidates explained precisely the use of Gantt charts for in terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the conditional tasks and the analysis of the critical path for path for path for the various various tasks and the analysis of the critical path for path for path for provided error-free pseudocode for implementation of a circular queue. About half provided error-free pseudocode for implementation of tail (0). Weaker candidat	Question	
(b) Good. In (e)(i), a very high proportion of candidates traced and understand the outcome greed docode. In (e)(ii), only about a third of candidates provided correct parameters of pseudocode. In (e)(ii), only about a third of candidates provided correct parameters of pseudocode. In (e)(ii), only about a third of candidates provided correct parameters of pseudocode. In (e)(iii), only about a third of candidates beasic understanding of condidates of parameter. Satisfactory. In general, candidates demonstrated a basic understanding of condidates parameter. (e) Satisfactory. In general, candidates explained precisely the use of Gantt charts of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the dependency among various tasks and the analysis of the critical path for pin terms of the path for pin terms of the pin terms		Excellent. Nearly all the candidates traced the simple pseudocood was a sequential flow.
(c) Good. In (c)(i), a very high proportion of andidates provided correct parameters of pseudocode. In (c)(ii), only about a third of candidates provided correct parameters of pseudocode. In (c)(ii), only about a third of candidates understanding of condidates of the content of the parameter. (d) Satisfactory. In general, candidates demonstrated a basic understanding of condidates parameter became a negative value and they did not use the absolute value in the parameter. (e) Fair. Only about a quarter of candidates explained precisely the use of Gantt charts. Fair. Only about a quarter of candidates were unable to describe the use of such development of applications. Weaker candidates were unable to describe the use of such development. 2 (a) Satisfactory. In general, candidates were weak at counting the exact number of the statement executes inside a two-level nested-for loop. (b) Good. (c) Good. Candidates performed well in (c)(i), (c)(ii) and (c)(iii). In (c)(iv), only about a the candidates demonstrated the ability to compare the two different pseudocodes in terms of candidates demonstrated the ability to compare the two different pseudocodes in terms of the candidates demonstrated a basic understanding of the conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. The majority of candidates demonstrated a basic understanding of the conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. The majority of candidates described the operations of the new algo the conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. The majority of candidates described the operations of the new algo the weakly of the conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. The majority of candidates described the operations of the new algo the weakly of the conditional branching when handling the cross-boundary cases in the circular queue		
pseudocode. In (c)(II), and looping in order to avoid the unnecessary execution of TR operations in the algorithm, looping in order to avoid the unnecessary execution of TR operations in the algorithm. (d) Satisfactory. In general, candidates demonstrated a basic understanding of conditions are parameter. (e) Pair. Only about a quarter of candidates explained precisely the use of Gantt charts are remained to a polications. Weaker candidates were unable to describe the use of such development of applications. Weaker candidates were unable to describe the use of such development. 2 (a) Satisfactory. In general, candidates were weak at counting the exact number of the dependency among various tasks and the analysis of the critical path for provided evelopment. (b) Good. (c) Good. Candidates performed well in (c)(i), (c)(ii) and (c)(iii). In (c)(iv), only about a the candidates demonstrated the ability to compare the two different pseudocodes in terms of a candidates demonstrated the ability to compare the two different pseudocodes in terms of Good. (d) Very good. (e) Satisfactory. The majority of candidates demonstrated a basic understanding of implementation of a circular queue. About half provided error-free pseudocode for implementation of tail(Q). Weaker candidates failed to provide correct paramete conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. The majority of candidates described the operations of the new algored the two implementations and explained clearly the remained to the new implementation was faster than the old one in terms of deq(Q). 4 (a) Satisfactory. Candidates demonstrated an adequate knowledge of procedural program language and object-oriented programming language in general. (b) Good. Candidates demonstrated an adequate understanding of the concept integration/system test and user acceptance test. (c) Good. Weaker candidates had difficulty in understanding the difference between conversion and the phased conversion.	153. 12	to (a)(i) a very high proportion of the found idates provided correct parametering of the
Satisfactory. In general, candidates demonstrated a basic understanding of Good. (a) Satisfactory. The majority of candidates demonstrated a basic understanding of Good. (b) Very good. (c) Satisfactory. The majority of candidates demonstrated a basic understanding of implementation of a circular queue. About half provided correct paramete conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. The majority of candidates demonstrated a basic understanding of the conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. The majority of candidates failed to provide correct paramete conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. The majority of candidates demonstrated a provide correct paramete conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. The majority of candidates described the operations of the new algored the week in the circular queue. (d) Satisfactory. The majority of candidates described the operations of the new algored the conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. The majority of candidates described the operations of the new algored the two implementations and explained clearly the results of the conditional branching when the condi	(c)	pseudocode. In (c)(11), only about the pseudocode. In (c)
Fair. Only about a quarter of candidates explained precision the use of such development of applications. Weaker candidates were unable to describe the use of such development. 2 (a) Satisfactory. In general, candidates were weak at counting the exact number of the statement executes inside a two-level nested-for loop. (b) Good. (c) Good. Candidates performed well in (c)(i), (c)(ii) and (c)(iii). In (c)(iv), only about a the candidates demonstrated the ability to compare the two different pseudocodes in terms of memory usage. (d) Good. 3 (a) Very good. (b) Very good. (c) Satisfactory. The majority of candidates demonstrated a basic understanding of implementation of a circular queue. About half provided error-free pseudocode for implementation of tail(Q). Weaker candidates failed to provide correct parameter conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. (e) Satisfactory. The majority of candidates described the operations of the new algoes the new implementation of the new algoes the satisfactory. The majority of candidates described the operations of the new algoes the new implementation was faster than the old one in terms of deq(Q). 4 (a) Satisfactory. Candidates demonstrated adequate knowledge of procedural program language and object-oriented programming language in general. (b) Good. Candidates demonstrated an adequate understanding of the concept integration/system test and user acceptance test. (c) Good. Weaker candidates had difficulty in understanding the difference between conversion and the phased conversion.	(d)	Satisfactory. In general, candidates demonstrated a basic basic and conditional branching and looping. However, the majority failed to handle the special case that the loop parameter became a negative value and they did not use the absolute value in the loop
2 (a) Satisfactory. In general, candidates were weak at counting the exact number of the statement executes inside a two-level nested-for loop. (b) Good. (c) Good. Candidates performed well in (c)(i), (c)(ii) and (c)(iii). In (c)(iv), only about a the candidates demonstrated the ability to compare the two different pseudocodes in terms of memory usage. (d) Good. 3 (a) Very good. (c) Satisfactory. The majority of candidates demonstrated a basic understanding of implementation of a circular queue. About half provided error-free pseudocode for implementation of tail(Q). Weaker candidates failed to provide correct parameter conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. (e) Satisfactory. The majority of candidates described the operations of the new algoes those why the new implementation was faster than the old one in terms of deq(Q). 4 (a) Satisfactory. Candidates demonstrated adequate knowledge of procedural program language and object-oriented programming language in general. (b) Good. Candidates demonstrated an adequate understanding of the concept integration/system test and user acceptance test. (c) Good. Weaker candidates had difficulty in understanding the difference between conversion and the phased conversion.	(e)	Fair. Only about a quarter of candidates explained precisely the use of Galitt charts in the development of applications. Weaker candidates were unable to describe the use of such charts in terms of the dependency among various tasks and the analysis of the critical path for project development
(c) Good. Candidates performed well in (c)(i), (c)(ii) and (c)(iii). In (c)(iv), only about a the candidates demonstrated the ability to compare the two different pseudocodes in terms of memory usage. (d) Good. (a) Very good. (b) Very good. (c) Satisfactory. The majority of candidates demonstrated a basic understanding of implementation of a circular queue. About half provided error-free pseudocode for implementation of tail(Q). Weaker candidates failed to provide correct parameter conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. (e) Satisfactory. The majority of candidates described the operations of the new algonal However, only about half compared the two implementations and explained clearly the rowhy the new implementation was faster than the old one in terms of deq(Q). 4 (a) Satisfactory. Candidates demonstrated adequate knowledge of procedural program language and object-oriented programming language in general. (b) Good. Candidates demonstrated an adequate understanding of the conceptintegration/system test and user acceptance test. (c) Good. Weaker candidates had difficulty in understanding the difference between conversion and the phased conversion.	2 (a)	The general candidates were weak at counting the exact number of times
(c) Good. Candidates performed well in (c)(i), (c)(ii) and (c)(III). In (c)(IV), only about a the candidates demonstrated the ability to compare the two different pseudocodes in terms of memory usage. (d) Good. (b) Very good. (c) Satisfactory. The majority of candidates demonstrated a basic understanding of implementation of a circular queue. About half provided error-free pseudocode for implementation of tail(Q). Weaker candidates failed to provide correct parameter conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. (e) Satisfactory. The majority of candidates described the operations of the new algon However, only about half compared the two implementations and explained clearly the rowhy the new implementation was faster than the old one in terms of deq(Q). 4 (a) Satisfactory. Candidates demonstrated adequate knowledge of procedural program language and object-oriented programming language in general. (b) Good. Candidates demonstrated an adequate understanding of the concept integration/system test and user acceptance test. (c) Good. Weaker candidates had difficulty in understanding the difference between conversion and the phased conversion.	(b)	Good.
memory usage. (d) Good. 3 (a) Very good. (b) Very good. (c) Satisfactory. The majority of candidates demonstrated a basic understanding of implementation of a circular queue. About half provided error-free pseudocode for implementation of tail(Q). Weaker candidates failed to provide correct parameter conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. (e) Satisfactory. The majority of candidates described the operations of the new algorn However, only about half compared the two implementations and explained clearly the rewhy the new implementation was faster than the old one in terms of deq(Q). 4 (a) Satisfactory. Candidates demonstrated adequate knowledge of procedural program language and object-oriented programming language in general. (b) Good. Candidates demonstrated an adequate understanding of the concept integration/system test and user acceptance test. (c) Good. Weaker candidates had difficulty in understanding the difference between conversion and the phased conversion.	6.00	Good. Candidates performed well in (c)(i), (c)(ii) and (c)(ii). In (c)(iv), only about a third of
(c) Very good. (b) Very good. (c) Satisfactory. The majority of candidates demonstrated a basic understanding of implementation of a circular queue. About half provided error-free pseudocode for implementation of tail(Q). Weaker candidates failed to provide correct parameter conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. (e) Satisfactory. The majority of candidates described the operations of the new algorable However, only about half compared the two implementations and explained clearly the rewritten why the new implementation was faster than the old one in terms of deq(Q). 4 (a) Satisfactory. Candidates demonstrated adequate knowledge of procedural program language and object-oriented programming language in general. (b) Good. Candidates demonstrated an adequate understanding of the concept integration/system test and user acceptance test. (c) Good. Weaker candidates had difficulty in understanding the difference between conversion and the phased conversion.		
 (b) Very good. (c) Satisfactory. The majority of candidates demonstrated a basic understanding of implementation of a circular queue. About half provided error-free pseudocode for implementation of tail(Q). Weaker candidates failed to provide correct parameter conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. (e) Satisfactory. The majority of candidates described the operations of the new algoral However, only about half compared the two implementations and explained clearly the rewhy the new implementation was faster than the old one in terms of deq(Q). 4 (a) Satisfactory. Candidates demonstrated adequate knowledge of procedural program language and object-oriented programming language in general. (b) Good. Candidates demonstrated an adequate understanding of the concept integration/system test and user acceptance test. (c) Good. Weaker candidates had difficulty in understanding the difference between conversion and the phased conversion. 	(d)	Good.
Satisfactory. The majority of candidates demonstrated a basic understanding of implementation of a circular queue. About half provided error-free pseudocode for implementation of tail(Q). Weaker candidates failed to provide correct parameter conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. (e) Satisfactory. The majority of candidates described the operations of the new algorable However, only about half compared the two implementations and explained clearly the result why the new implementation was faster than the old one in terms of deq(Q). 4 (a) Satisfactory. Candidates demonstrated adequate knowledge of procedural program language and object-oriented programming language in general. (b) Good. Candidates demonstrated an adequate understanding of the concept integration/system test and user acceptance test. (c) Good. Weaker candidates had difficulty in understanding the difference between conversion and the phased conversion.	3 (a)	Very good.
implementation of a circular queue. About hair provided entir-nee pseudocode for implementation of tail(Q). Weaker candidates failed to provide correct parameter conditional branching when handling the cross-boundary cases in the circular queue. (d) Satisfactory. (e) Satisfactory. The majority of candidates described the operations of the new algorable However, only about half compared the two implementations and explained clearly the result why the new implementation was faster than the old one in terms of deq(Q). 4 (a) Satisfactory. Candidates demonstrated adequate knowledge of procedural program language and object-oriented programming language in general. (b) Good. Candidates demonstrated an adequate understanding of the concept integration/system test and user acceptance test. (c) Good. Weaker candidates had difficulty in understanding the difference between conversion and the phased conversion.	(b)	Very good.
Satisfactory. The majority of candidates described the operations of the new algorate However, only about half compared the two implementations and explained clearly the rewhy the new implementation was faster than the old one in terms of deq(Q). Satisfactory. Candidates demonstrated adequate knowledge of procedural program language and object-oriented programming language in general. (b) Good. Candidates demonstrated an adequate understanding of the concept integration/system test and user acceptance test. (c) Good. Weaker candidates had difficulty in understanding the difference between conversion and the phased conversion.	(c)	implementation of a circular queue. About half provided enorthee pseudocode for the
However, only about half compared the two implementations and explained clearly the rewhy the new implementation was faster than the old one in terms of deq(Q). 4 (a) Satisfactory. Candidates demonstrated adequate knowledge of procedural program language and object-oriented programming language in general. (b) Good. Candidates demonstrated an adequate understanding of the concept integration/system test and user acceptance test. (c) Good. Weaker candidates had difficulty in understanding the difference between conversion and the phased conversion.	(d)	
Ianguage and object-oriented programming language in general. Good. Candidates demonstrated an adequate understanding of the concept integration/system test and user acceptance test. Good. Weaker candidates had difficulty in understanding the difference between conversion and the phased conversion.	(e)	However, only about half compared the two implementations and explained clearly the reason why the new implementation was faster than the old one in terms of deq(Q).
integration/system test and user acceptance test. (c) Good. Weaker candidates had difficulty in understanding the difference between conversion and the phased conversion.	4 (a)	Satisfactory. Candidates demonstrated adequate knowledge of procedural programming language and object-oriented programming language in general.
conversion and the phased conversion.	(b)	Good. Candidates demonstrated an adequate understanding of the concepts of integration/system test and user acceptance test.
I we	(c)	Good. Weaker candidates had difficulty in understanding the difference between pilot conversion and the phased conversion.
(d) Very good.	(d)	Very good.

school-based Assessment SBA marks submitted by schools were moderated in accordance with the principles and methods the control of the SBA marks submitted by schools were moderated in accordance with the principles and methods. The SBA moderation revealed that 55.0% of schools fell into the 'within the expected reposition to the 'within the 'with The SBA in the booklet injuderation of School-based Assessment Scores with the principles and methods described in the SBA moderation revealed that 55.0% of schools fell into the 'within the expected results in the SBA moderation revealed than expected, and 20.8% were lower than expected range' category, which is the expected and implementation of SBA implementation of SBA implementation. described and separation revealed that 55.0% of schools fell into the 'within the expected range' category, while 24.2% of schools were higher than expected, and 20.8% were lower than expected range' category, while 24.2% are propriate. The sample guided tasks submitted by 77 school, and the marking standard to marking standard to the standard of the sample guided tasks submitted by 77 school. results in the expected and 20.8% were lower than expected and 20.8% were lower than expected range category, while 24.2% of schools were reviewed by the SDA control of the space of adjustment was finalised. while 24 demonstrated a good understanding of SBA implementation, and the marking standards were teachers demonstrated. A majority of teachers depreced adjustment was finalised.

before unbefore are requested to inform students clearly various requirements and regulations regarding the SBA assessment criteria.

- schedule of assessment, b.
- schedule of associations and administrative procedures for conducting SBA, d.
- the school street importance of academic honesty and proper conduct in SBA, record keeping requirements and
- e.
- record keeping requirements and acknowledge sources properly in their SBA work.

2.

- Teachers were requested to set guided tasks appropriate to their students' level. Students had to complete two Teachers were requested their work with products. When setting guided tasks and record their work with products. When setting guided tasks for students, teachers are guided tasks and recomplete two guided tasks and recomplete two guided tasks for students, teachers are encouraged to consider whether their students can make use of the tasks to effectively demonstrate the 3. encouraged to constant students can make use of the tasks to effectively dependence on the tasks to effectively dependence on the student from the ICT curriculum.
- Thirty hours of curriculum time is allocated for SBA. Teachers are encouraged to conduct the SBA in class to Thirty hours of cannot be a sufficient to the second secon ensure authenticity. Part and detailed guidance or advice in such a way as to call into question the student's not to give specific and detailed guidance or advice in such a way as to call into question the student's 4. authorship of his/her work.
- Students in general completed their work with milestones such that teachers were able to evaluate it at different Students in general state of completion and give feedback accordingly, including marks or grades on individual assessment tasks 5. for the guided tasks.
- Stronger students made use of what they had learnt to produce excellent deliverables in the SBA. However, Stronger students only focused on a very small number of essential elements. For example, the web pages 6. their delivered usually included only one kind of multimedia elements. For example, the web pages they created usually include audios and videos in their web pages. It is suggested that they created such as include audios and videos in their web pages so as to demonstrate their multimedia editing skills.
- Guided tasks are a part of the learning and teaching process. Students are expected develop and integrate their Guiden tasks and knowledge through the SBA, and put them into practice in the examination as well as in their future 1. lives.
- The guided tasks have to be recorded in written documents such as project reports and presentation documents, or in other formats when appropriate. 8.

Popularity of the Elective Part

Option	Popularity (%)
	14
A. Databases B. Data Communications and Networking	1
B. Data Communications and Neb Site Development	61
C. Multimedia Production and Web Site Development	24
D. Software Development	