Ministry of Science and Technology

The University of Computer Studies, Yangon

Entrance Exam Structure of the Master's Course

Part I: English Proficiency Test Total Marks: 100 Time: 2 hrs

Part II: The General Test Total Marks: 100 Time: 2 hrs

Part I: Structure of the English Proficiency Test

I. Reading Comprehension

(20 marks)

Question Type: (Matching Paragraphs with the Suitable Heading, Sentence Completion, Expressing the statements True, False, Not Given, Summary Completion, etc.)

II. **Grammar** (40 marks)

Question Type: (Vocabulary, Tenses, Finding error, Rearranging sentence, etc.)

III. Cloze Type (20 marks)

IV. Essay (20 marks)

Total (100 marks)

Part II: Structure of the General Test

The General Test will comprise a test of multiple choice questions on analytical ability, quantitative ability and general aptitude. The Analytical Ability test involves reasoning that helps in analyzing and synthesizing information, applying broad analysis to arrive at conclusions, understanding complex relationships, using systems perspectives while handling a problem or a situation. The Quantitative Ability tests a candidate on his/her numerical capability. The General Aptitude test assesses the candidate's essentials fundamentals in Computer Science & Technology. The topics covered in the General Aptitude test are Data Structure, Operating Systems, Data Communication and Computer Networks, Computer Programming Techniques, Computer Architecture and Organization, Digital Logic Design, Artificial Intelligence, DBMS and Software Engineering.

Progra	ammin	g Techniques,	Compu	ta Communica ter Architecture Software Engin	e and (Organization, I				
		Sample	<u>Questi</u>	ions of the A	<u>nalyti</u>	cal Ability T	<u> rest</u>			
1.	There are six houses constructed in a row. Each house is having a different color. Red house is to the left of Yellow house. Black colored house is immediate left to White house but is not next to Yellow colored house. Blue colored house is between Red house and Green house. Blue color house is in the second position from extreme left. Green, Yellow and Orange colored houses are not in the extreme left or extreme right. Identify the position of Red house from extreme left?									
	(a) Fi	irst position	(b) S	econd position	(c) T	hird position	(d) F	ourth position		
2.	If in a certain code, COMPUTER is written as DNNOVSFQ, which word would be written as CQBHO?									
	(a)	BROD	(b)	BRAIN	(c)	BRADN	(d)	BLADE		
3.	Which of the following time with hours and minutes clock produces 60 degree angle between 6am to 7am.									
	(a)	6:27 am	(b)	6:22am	(c)	6:38 am	(d)	6:45am		
4.	There are 100 employees in a conference room in New York City. You note that 99% of them are managers. How many managers would need to leave the conference in order to reduce the percentage of managers in the hall to 98%?									
	(a)	1	(b) 2		(c) 5	0	(d) 98	8		
		Sample (<u>)uestio</u>	ons of the Qu	<u>antita</u>	ntive Ability	<u>Test</u>			

1.	U		U	*		be selected. In y should be the		any different
	(a)	159	(b)	209	(c)	201	(d)	212

2. When two dice are tossed, what is the probability that the total score is a prime number?

	(a)	1/4	(b) 1/3		(c)	2/3		(d)	5/12		
3.	, ,	What is tightest upper bound of $2T(n/2)$ +logn									
	(a)	O(n)	(b) O(n ²	_	(c)	O(nlog	n)	(d)	$O(\log n)^2$		
4.	Three	Three balls are drawn randomly from a bag contains 3 black, 5 red and 4 blue balls. What is the probability that the balls drawn contain balls of different colors?									
	(a)	311	(b) 13		(c) 12			(d) 21			
San	nple Q	uestions for	Fundamen	tal in C	omput	ter Sci	ence a	nd Te	chnology		
1.	In C, which of the following variables are created at the time of a function call and destroyed when the function returns?										
	(a)	integer variab	(b)	parameters to the function							
	(c)	static variable	thin the f	unction	(d)	d) extern variable					
2.	Which of the following algorithm design technique is used in the quick sort algorithm?										
	(a)	Dynamic programming				Backtra	tracking				
	(c)	Divide and co	nquer		(d)	Greedy	metho	d			
3.	Which of the following is the correct order of the OSI model from bottom to top?										
	(b) Ph (c) Ph	(a) Application, Presentation, Session, Transport, Network, Data Link, Physical(b) Physical, Network, Data Link, Session, Transport, Application, Presentation(c) Physical, Data Link, Network, Transport, Session, Presentation, Application(d) Application, Session, Presentation, Transport, Network, Data Link, Physical									
4.	A Database Management System (DBMS) is										
	(a)	a) Collection of interrelated data									
	(b)	Collection of programs to access data									
	(c)	(c) Collection of data describing one particular enterprise									
	(d)	All of the above									
5.	What (a) (c) (e)	are attributes of Software mai Software dev a,b and c	ntainability	re?	(b) (d)	Softwa a,b	are fund	ctionali	ty		
6.	second	is the concept in which a process is copied into main memory from the secondary memory according to the requirement.									
			mand paging	_		ion		(d) Sw	apping		