Vavuniya Campus of the University of Jaffna

First Examination in Information Technology - 2018

First Semester - September/October 2019

IT1113 Fundamentals of Information Technology (Practical)

Answer All Questions

Time Allowed : Two hours

Instructions:

- Create a folder named with your **index number** on Desktop. Save all your files inside that folder.
- Save your files frequently to avoid losses due to power failures.
- This paper has **three** questions in **five** pages.

1. Create the following documents using MS Word according to given instructions and save the document with the file name Word_Q1_Indexnumber [e.g.:Word_Q1_IT1001].
    - Your document should have page size of A4.
    - Set left margin with 3 cm.
    - Set right margin with 3cm
    - Set top margin with 2cm.
    - Set bottom margin with 2cm.
    - Put the page number on the left of the footer.

[This question is continued on the next page]

- Put the Index number on the top left header of the page.
- Use the font style "Times New Roman" with font size of 12 for all your paragraphs and perform the editing.

(a) Create the following text exactly as given below:

C++, as we all know is an extension to C language and was developed by ***Bjarne Stroustrup*** at Bell Labs in ~~1979~~. It is an intermediate level language, as it comprises a confirmation of both high level and low-level language features. And it is one of the world's most popular programming language. C++ gives programmers a high level of control over system resources and memory and it is a cross-platformed language that can be used to create sophisticated high-performance applications.

C++ is an **Object-Oriented Programming language** but is not purely Object Oriented. Its features like ***Friend*** and ***Virtual***, violate some of the very important OOPS features, rendering this language unworthy of being called completely Object Oriented. It's a middle level language.

The major difference being OOPS concept, C++ is an object-oriented language whereas C language is a procedural language. Apart from this there are many other features of C++ which gives this language an upper hand on C language.

[This question is continued on the next page]

(b) Create the following table exactly as given below:

PRESENTATION	Code	Group-I		Group-II		Group-III	
		Time and Venue					
		Time	Venue	Time	Venue	Time	Venue
	ICT4271	09.00am-11.00am	PSCL1-A	11.30am-1.30am	PSCL1-A	02.00am-04.00am	PSCL1-A
	ICT4281	09.00am-11.00am	PSCL1-A	11.30am-1.30am	PSCL1-A	02.00am-04.00am	PSCL1-A

[35%]

2. Create the following database using MS Access and answer the following questions.

(a) Create the database "Election".

(b) Create the following table and name it as "Yatinuwara".

No	National Id number	Name	Age
01	875622630V	A.S.M. Ranaweera	32
02	789034891V	K.P.P. Kumara	41
03	774590387V	S.W. Samaraweera	42
04	883908675V	S. Sigera	31
05	904356832V	S. Balaran	29
06	923478327V	S.L. Farhana	27
07	200056894V	A.S. Fernando	19
08	679034789V	K.R. Siriwardana	52
09	659034789V	S. Subangan	54
10	794590763V	R.K. Samaraweera	40

(c) Write a query to retrieve details of candidates whose age is between 40 and 50.

[25%]

3. Create the following spreadsheet using MS Excel and save it with file name that starts with Excel_Q3_Indexnumber [e.g.: Excel_Q3_IT1001].

   - Create the following tables in sheet 1 according to the given instructions. First table contains the details of books borrowed by students from 2017-10-12 to 2017-10-19. The second table contains the details of the books which are available in the library.
   - In the header of the worksheet, insert your subject code in left section and index number in the right section.

Books_borrowing_records 2017-10-12 to 2017-10-19

Student Reg_no	Book_Id	Book name	Date borrowed	Date due back	Date returned	Overdue Days	Late return fine
S1001	B_IT02		10/12/2017	10/26/2017	10/20/2017	0	0
S1002	B_Sc01		10/12/2017	10/26/2017	10/30/2017	4	70
s1001	B_IT03		10/14/2017		10/29/2017		
s1007	B_M03		10/15/2017		10/26/2019		
s1010	B_Ma01		10/16/2017		11/3/2017		
s1011	B_M02		10/16/2017		10/28/2017		
s1014	B_Sc02		10/17/2017		11/5/2017		
s1017	B_Ma02		10/18/2017		11/2/2017		
s1020	B_IT01		10/19/2017		11/5/2017		
s1012	B_M01		10/19/2017		10/29/2017		
Total Information Technology books borrowed							
Total Science Books borrowed							
Total Mathematics books borrowed							
Total Commerce books borrowed							

(a) Use lookup function to insert the *Book name* column into the **Book_borrowing_records** table.

(b) Students have to return the books within two weeks from the borrowed date. Fill the *Date due back* column in **Book_borrowing_records** table by using appropriate formula.

[This question is continued on the next page]

Library books data

Book_id	Specific area	Book_name	Price of each book	Rate
B_IT01	Information Technology	Fundamentals of IT	$1,500	
B_IT02	Information Technology	Programming pearl	$1,000	
B_IT03	Information Technology	Learning Python	$2,500	
B_Sc01	Science	X-Ray Crystallography	$1,750	
B_Sc02	Science	Modern physics	$1,200	
B_M01	Mathematics	Mathematical mindsets	$900	
B_M02	Mathematics	Linear algebra	$1,100	
B_M03	Mathematics	Classic set theory	$1,600	
B_Ma01	Commerce	E-business and E-commerce	$2,000	
B_Ma02	Commerce	The Wal-Mart effect	$1,800	

(c) Overdue days is the difference(in number of days) between *date returned* and *date due back*. Fill the *overdue days* column in **Book_borrowing_records** table by using appropriate formula.

(d) Fill the *Late return fine* column for each student by using following formula.
Late return fine = Overdue days × price of the book × 0.01

(e) Fill the *Total Information Technology books borrowed, Total Science books borrowed, Total Mathematics books borrowed, Total management books borrowed* rows by using the details of books borrowed by students.

(f) Fill the *Rate* column in table **Library books data** by using the following information.

Price of each book	Rate
>2500	A
>2000	B
>1500	C
>=1000	D
<1000	E

[40%]