ICT TRIAL SPM 2011

Nama				
No KP			Kelas:	
Angka Gliran				
No Soalan		Jawapan Calon	Skor	
1.		B		1
2.	i.	False		2
	ii.	True		3
3.		Keyword blocking/halangan kata kunci		4
4.		D. Firewall		5
5.		C. Identification Card		6
6.	i.	Q		7
	ii.	S		8
7		Utility program		9
8.		A – Fetching		10
9.	i.	80 GB		11
	ii.	1.86 GHz		12
10.		Metropolitan Area Network (MAN)		13
11.	i.	True		14
	ii.	True		15
12.	i.	Q (Network Interface Card)		16
	ii.	P (Router)		17
13.		C		18
14.	i.	Z		19
	ii.	X		20
15.		Storyboard		21
16.		Programmer		22
17.	i.	Design phase		23
	ii.	Publishing Phase		24
18		Object – Oriented Programming (OOP)		25
19.	i.	K. - Machine Language		26
	ii.	J. - 5 GL		27
20.		Interpreter		28
21.	i.	Integer		29
	ii.	String		30
22.		Hub / Switch		31
23.		C		32
24.	i.	Terminator		33
	ii.	Decision		34
25.	i.	Hour/Minute/Total		35
	ii.	AND		36
JUMLAH SKOR				

Section B

26. (a) Julia. Type of computer crime: Copyright infringement   (1 m)
         Justification: (1 m)
    - The commercial application software is copyrighted. Julia is only buying a license to use the software, she does not own the software itself and therefore she is not entitled to redistribute it.

    (b) - integrity and security information
         - legal status of online transactions
         - privacy and confidentiality of information
         - intellectual property rights
         - security of government data

    any 2 answer – 2 m

27.

Figure 13a (Proprietary software)	Figure 13b (Open source software)
- user only can used the software without making any changes to the source code because source code is not available to user.	- The source code are available to users and they have the rights to modify them.
- any changes or updating of the system only will be done by the manufacturer of the software.	- This will allow improvements to the software without having to invest large sum of money in research and development.
- The software offers a stable system support if it fails or malfunction.	- The modified and improved source codes can be freely redistributed

- any two correct answers for each sides.

28. (a) i. TanaBNet – Extranet   (1m)
         ii. GuCoNet - Intranet   (1m)

    (b) Internet is a public network that provides information which connects millions of computer all over the world.   (1m)
    Many organizations including private such as business, government agencies, educational institutions and individual connected to Internet. - (1m)

29. i.   R – txt / .doc   (1 mark)
         S – jpg / bmp / jpeg   (1 mark)
    ii.   R – keyboard / scanner   (1 mark)
         S – digital camera / scanner   (1 mark)

30. a)   Cable A – Straight Cable   (1 mark)
                    Cable B – Crossed Cable   (1 mark)

b) Function of cable A:
    1) Connect a computer to a switch/hub's normal port.
    2) Connect a computer to a cable/DSL modem's LAN port.
    3) Connect a router's WAN port to a cable/DSL modem's LAN port.
    4) Connect a router's LAN port to a switch/hub's uplink port. (normally used for expanding network)
    5) Connect 2 switches/hubs with one of the switch/hub using an uplink port and the other one using normal port.
                Any one answer - (1 mark)

Function of Cable B
    1) Connect 2 computers directly.
    2) Connect a router's LAN port to a switch/hub's normal port. (normally used for expanding network)
    3) Connect 2 switches/hubs by using normal port in both
                Any one answer - (1 mark)

Section C

31. (a)   Phase P – Documentation   (1m)
           Importance :
             -       valuable if the program requires changes in the future as documentation enables new programmers to learn about existing programs easily and quickly.
             -       includes detailed problem definition, program plan, comments within the source program and testing procedures
             -       includes a detailed description of the program , clear layouts of input and output records and a program listing.
          Any one answer - (1m)

           Phase Q – Coding   (1m)
           Importance :
             -       writing the solution using the computer programming language
             -       coding a program involves translating the solution algorithm into programming language usually on paper.
          Any one answer - (1m)

    (b)   i)   Activity X is a programmer reviews and defines the problems, identifies the data input, process and output for the program.

                   Omitted this activity can course:
                   - Fail to defines the problems faced by user target
                   - Fail to defines solution for the problem
                   - Fail to indicate the purpose of the program before continuing to the next task (identifies the input, process and output).

          ii)   Phases involved in the program development:
                   •   Problem Analysis Phase
                   •   Program Design Phase
                   •   Coding Phase
                   •   Testing and Debugging Phase
                   •   Documentation Phase

32. (a) LAN A : client/server architecture
    LAN B : peer to peer architecture

LAN A (Client/Server)	LAN B (Peer to peer)
Server has the control ability while clients don'ts	All computers have equal ability
Higher cabling cost	Cheaper cabling cost
It is used in small and large networks	Normally used in small networks with less than 10 computers
Easy to manage	Hard to manage
Install software only in the server while the clients share the software	Install software to every computer
One powerful computer acting as server	No server is needed

Any 2 answers that match its aspect: 2 x 2m (4m)

(b) - sharing of program/software
     - sharing of files
     - sharing of data
     - sharing of information
     - can access server centered database
     - better communication using Internet services such as e-mail, mailing list and Internet Relay Chat

Any 3 answers - 3 mark

33. i. R is Primary key for CUSTOMER table and it contains unique value
                                                        (2 marks)
    S is foreign key which is used to make relationship between CUSTOMER table and SERVICE table.   (2 marks)

    ii. A query is a request for a specific data from a database.   (1 mark)
        Field name   : Cust_ID   (1 mark)
        Criteria   : A003   (1 mark)