

3765/1
INFORMATION AND COMMUNICATION TECHNOLOGY
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INFORMATION AND COMMUNICATION TECHNOLOGY

PERATURAN PEMARKAHAN

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5	C – CAN STORE HIGH END VIDEO/THE PERMANENTLY ... (ERRATA)	5	
6	B	6	
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8	D	8	
9	i	FALSE	9
	ii	FALSE	10
	iii	TRUE	11
10	a	INTERPRETER	12
	b	COMPILER	13
11	i	X	14
	ii	Z	15
12	a	S	16
	b	P	17
13	a	R	18
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14	i	PEER TO PEER/PEER –TO - PEER /P2P	20
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18	DATABASE MANAGEMENT SYSTEM/DBMS	26	
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SECTION B

Question 26.

a)

X : Metropolitan Area Network/MAN - 1 mark

Y : Wide Area Network / WAN - 1 mark

b)

- i. The speed of data transmission in Y(WAN) is very low compared to LAN and MAN.
- ii. The cost of data transmission is very high because the transmission mediums used are hired either telephone lines or satellite links.

Or any relevant answers. - 1 mark each

Question 27

a)

Situation 1 : Linear - 1 mark

Situation 2 : Non-linear - 1 mark

b)

Situation 1 (Linear)	Situation 2 (Non-linear)
The user interacts with the multimedia application without controlling the progress of the content	The user is allowed to interact with the content according to what the user wants from the content.
One-way interaction/communication	Two-way interaction/communication.
The linear content is usually arranged in sequence.	Non-linear content is not arranged in sequence
No link is given to connect any object in the content to another screen	Tools like "hypertext" is used to connect a word or a phrase to another screen.

2 marks for any correct pair. Answers must be in pairs. Answer could be in the form of table or paragraph.

Question 28

a)

Translator X : compiler - 1 mark

Translator Y : interpreter - 1 mark

b)

X (compiler)	Y (Interpreter)
Translate statement line by line and execute it immediately	Translate entire programming statement at one time and executes.
Store machine language as object code on the disk.	No object code is created or saved

1 mark for any correct pair. Answers must be in pair form. Answer could be in table form or paragraph.

Question 29

a.

- i. Data / procedure - 1 mark
- ii. Procedure / Data - 1 mark

b.

- i. The right data in information systems helps us to make the right decision. - 1 mark
- ii. Procedures are operating instructions for the user of an information system. - 1 mark

Answer in (a i) must tally with (b i), (a ii) with (b ii)

Answers need not be in order.

(a i) and (a ii) must be answered correctly in order to award marks to (b i) and (b ii)

Question 30 (Eratta)

a.

P : Operating System / Utility Software - 1 mark

Q : Utility Software / Operating System - 1 mark

b.

(Operating System)

- i) Starts the user interface of a computer.
- ii) Manages programs – install, execute, uninstall
- iii) Allocates memory for each process in a system
- iv) Configures devices in a computer.

(Utility Program)

- i) Protects a computer against viruses
- ii) Removes viruses in memory and storage devices.
- iii) Compiles technical information about a computer hardware and prepares report.
- iv) performs functions related to files and disk management.

Or any relevant answers.

Any two functions - 2 marks

Answer in (a i) must tally with (b), (a ii)

Answers need not be in order.

(a i) and (a ii) must be answered correctly in order to award marks to

(b)

Section C

Question 31

a.

HEIGHT :	<input type="text"/>
WIDTH :	<input type="text"/>
LENGTH :	<input type="text"/>
THE VOLUME OF THE CUBOID IS :	<input type="text"/>

The basic input interface. Any form of layout is accepted as long the three input items; height, width, length and the output; volume is included.

1 mark for each item. Maximum 4.marks.

b.

i. Variable : Radius / Height - 1 mark

Constant : C - 1 mark

ii.

Variable	constant
The value of variable may change at any time in the program.	The value of constant will never change throughout the program.

Question 32

a

i. LAN / Local Area Network - 1 mark

ii. The network communication in X is **internet**.
The nodes **in the Self Access Learning Room Of SMK Sentosa Permai** are able to **connect to the internet through the modem**.

- 2 marks

Answer must be based on the situation in the question.

b.

Topology A (Star)	Topology B (Bus)
There is a central host (hub/switch) and all nodes connect to it.	There is a single central cable (backbone) and all computers and other devices connect to it
Limited nodes in expanding the network.	Unlimited nodes in expanding the network.

Any relevant answer is accepted.

2 marks for any correct pair. Answers must be in pair form. Answer could be in table form or paragraph.

Maximum two pairs – 4 marks

Question 33.

a.

i) CustId - 1 mark

ii) A primary key is the **field that uniquely represents each record** in a table. (1 mark) - 1+1 mark

CustId in Customer_Table does not contain any redundant data and it is **unique**. (1 mark)

Answer must be based on the situation in the question.

b.

i) Text - 1 mark

ii) Date/Time - 1 mark

Must be exactly date/time not date or time

c. CustId in Customer_Table is primary key where as CustId in Order_Table is foreign key. (1 mark) - 1 + 1 mark
Foreign key fields are linked to fields in other tables. (1 mark)