

INDIAN SCHOOL MUSCAT
FIRST TERM EXAMINATION
SEPTEMBER 2018

CLASS XI

Marking Scheme – INFORMATION TECHNOLOGY [THEORY]

SET C

Q.NO.	Answers	Marks
I. 1.	e-Learning refers to the use of computers and communication technologies in teaching to enhance its effectiveness.	1
2.	<ul style="list-style-type: none"> Improved speed of response Improved efficiency and productivity (Any two)	1
3.	<ul style="list-style-type: none"> Causes a communication gap between those who can access information and those who cannot. Reducing levels of education due to vast amount of incorrect information. 	$\frac{1}{2} + \frac{1}{2} = 1$
4.	The objectives are to satisfy and fulfill the public needs and expectations of its side by simplifying their interactions with various online services. To provide citizens to access information and knowledge about the political processes, about services and about choices available.	1
5.	Speed ,Accuracy, High storage capacity,Reliability,Versatility. (Explain any two)	$\frac{1}{2} + \frac{1}{2} = 1$
6.	www.irct.com www.licindia.com Any two e-Business websites	$\frac{1}{2} + \frac{1}{2} = 1$
II. 1.	Firmware's are prewritten program already embedded in micro chips to do a specific task. The programs stored in ROM are firmware. BIOS is an example of a firmware.	2
2.	A hybrid computer is one which has the features of an analog computer and a digital computer. The digital component normally serves as the controller and provide logical operations, while the analog component normally serves as a solver of differential equations.	2
3.	<ul style="list-style-type: none"> Integrated Circuits were used(IC's) Size became less and speed increased Operating System were developed Cost reduced. 	$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = 2$

4.	A microcomputer works with the help of a microprocessor .It contains a Central Processing Unit(CPU) on a microprocessor chip, a memory system and a random access memory placed on the motherboard. It is designed for single users. Eg: Laptop, desktop etc.	2
5.	A 25 pin port parallel port is used to connect printer,scanner,external hard disk etc.to the computer. Its colour is burgundy and they are often called as LPT 1 ports.	2
6.	Language processors are system software's used to convert a HLL program into machine language or an assembly language program to machine language. The language processors are assembler, compiler and interpreter. A compiler converts full program to machine language in one go, whereas an interpreter converts each line at a time.	2
7.	Special purpose computers are used to do a specific task. An automobile cruise controller is a special purpose computer. Prewritten programs are stored in these type of computers.	2
8.	Functions of operating systems are processor management and file management. It keeps track of processes, which job has to be executed, allocate processor, deallocate processor etc. It also keeps track of files, allocate files and deallocate it after use.	2
9.	Application software is a set of programs used to carry out operations for a specific application. It is again categorized into utility software, packages and customized software. DVD-R - Digital Versatile Disc write once is used to store large amount of data. It can hold much more data than a CD. It has several layers of magnetic recording dye on the disc surface. Disc capacity ranges from 4.7 GB to 17GB	1 ½ + 1 ½ = 3
III. 1.a)	CREATE TABLE WORKER (WNO int(5) Not Null Primary Key, NAME char(25), DOJ date, DOB date, GENDER char(10));	3
b)	Insert into WORKER values (1001, "George K", "2013-09-02", "1991-09-01", "MALE"); At least 4 rows to be inserted	2
c)	SELECT NAME FROM WORKER WHERE GENDER = "FEMALE";	1
d)	SELECT WNO, NAME FROM WORKER WHERE DOB BETWEEN ('1987-01-01' AND '1991-12-10');	1
e)	SELECT NAME FROM WORKER WHERE DOJ > '1986-01-01';	1
f)	SELECT NAME, DOB FROM WORKER WHERE NAME LIKE ('A%');	1
g)	SELECT * FROM PRODUCT ORDER BY DOB DESC;	1
h)	SELECT NAME, DOJ FROM WORKER WHERE GENDER = "MALE";	1
i)	SELECT WNO, NAME FROM WORKER WHERE NAME LIKE ("% nil%");	1

j)	SELECT MIN(DOJ) FROM WORKER ;	1
k)	UPDATE WORKER SET DOB = "1986-10-14" WHERE WNO = 1004 ;	1
l)	DELETE FROM WORKER ;	1
IV. 1.	A row in a relation/table is known as a tuple.	1
2.	A candidate key is a field(s) in that which has a unique value for each row , which is capable of becoming a primary key.	1
3.	Data Manipulation Language consists of a set of commands which is used to manipulate data's in a database system. SELECT ,UPDATE,DELETE etc are some DML commands.	1
4.	Number,Decimal,char,varchar, date ,long,raw etc (Any two).	1
5.	Unique constraint is used to ensure that the value entered in the column cell has no duplicates in any of the rows in that table.	1
6.	A record is a row value of a table which convey some information.	1
7.	sum() – used to find the total sum of a column value where only numbers are entered. min() – used to find the minimum value stored in a column of a table which has only numbers stored in it.	1+ 1 = 2
8.	A database is a collection of inter related data. A database software management system is used to store information in the form of tables.	2