

INDIAN SCHOOL MUSCAT
FIRST TERM EXAMINATION
SEPTEMBER 2018

CLASS XI

Marking Scheme – INFORMATION TECHNOLOGY[THEORY]

SET A

Q.NO.	Answers	Marks
I. 1.	Information and Communication Technology refers to the representation of knowledge such as facts, data or opinions in any medium including textual, numerical, narrative or audio visual forms and the science of application of knowledge to practical	1
2.	<ul style="list-style-type: none"> Allows user to participate in a world wide society Increasing new opportunities for students 	$\frac{1}{2} + \frac{1}{2} = 1$
3.	<ul style="list-style-type: none"> Upfront investment Inappropriate content 	$\frac{1}{2} + \frac{1}{2} = 1$
4.	e-Business means conducting any aspect of business on-line including buying,selling,exchanging information with customers,suppliers,distributors or employees.	1
5.	<ul style="list-style-type: none"> Zero IQ Lack of decision making power 	$\frac{1}{2} + \frac{1}{2} = 1$
6.	<ul style="list-style-type: none"> www.worldbank.org www.pensionerportal.gov.in (Any two website names)	$\frac{1}{2} + \frac{1}{2} = 1$
II. 1.	Physical components of a computer that can be seen and touched. Eg: CPU,Memory,I/O devices (Any two)	1+1 = 2
2.	Operates on continuous data like measuring temp changes, pressure changes etc.They are faster, accuracy of Analog computers is restricted to the accuracy with which physical quantities can be sensed and displayed.	2
3.	<ul style="list-style-type: none"> Transistors were used Lesser size and increased speed Assembly lang used, COBOL etc Cost reduced 	$\frac{1}{2} + \frac{1}{2}$ $+ \frac{1}{2} + \frac{1}{2} =$ 2
4.	Huge computers with enormous processing power,expensive,powerful and faster,not	2

	limited to one job. Used by business and small government organizations (Any valid points)	
5.	Operating system is a set of software's which act as a interface between the user and the hardware. Eg: DOS,Windows, Mac OS etc	1+1 = 2
6.	Motherboard is the main printed circuit board which holds processor chip,memory chips and it has expansion slot for connecting peripherals.	2
7.	Video Graphics Adaptor is a 15 pin port used to connect monitor to the computer system and is blue in colour. It is a analogue port and is being replaced by DVI port.DVI port is white in colour and is digital. images can be produced more quickly on the monitor.	2
8.	Modulator/Demodulator is a hardware device which converts analog signals to digital and digital signals to analog. MODEM is used when computer uses telephone lines to send or receive data's.	2
9.	In the block diagram all different blocks should be drawn neatly and each block should be labeled properly. The blocks should include Input-CPU-Memory-Output	1+2 =3
III. 1. a)	CREATE TABLE ITEM (ID int(5) Not Null Primary Key, INAME char(25), QTY decimal(6,2), PRICE decimal(6,2), COMPANY char(30)) ;	3
b)	Insert into ITEM values(101, "DIGITAL CAMERA 14 X" , 120, 1200, "RENIX") ; At least 4 rows to be inserted	$\frac{1}{2} + \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = 2$
c)	SELECT * FROM ITEM WHERE PRICE BETWEEN(1500 AND 3000) ;	1
d)	SELECT * FROM ITEM WHERE QTY IS NULL ;	1
e)	SELECT INAME FROM ITEM WHERE COMPANY = "RENIX" ;	1
f)	SELECT * FROM ITEM WHERE QTY > 100 ;	1
g)	SELECT ID,INAME,COMPANY FROM ITEM WHERE INAME LIKE ("DIGITAL%") ;	1
h)	SELECT ID, INAME FROM ITEM WHERE COMPANY IN ("RENIX", "DIGIPOP", "STOREKING") ;	1
i)	SELECT MAX(PRICE) FROM ITEM ;	1
j)	SELECT COUNT(*) FROM ITEM ;	1

k)	SELECT SUM(PRICE), AVG(PRICE) FROM ITEM ;	1
l)	UPDATE ITEM SET QTY = 80 WHERE ID = 105 ;	1
IV. 1.	The total number of tuples in a relation is known as its Cardinality.	1
2.	A non-key attribute which is a primary key in some other relation/table.	1
3.	NULL in MySQL means presently no value is assigned to that column cell.	1
4.	Number,Decimal,char,varchar, date ,long,raw etc (Any two).	$\frac{1}{2} + \frac{1}{2} = 1$
5.	Default constraint gives default values to those column cells where values are not given during inserting the values to a row in a table.	1
6.	The total number of attributes/columns in a relation/table is known as its degree.	1
7.	upper(),lower(),replicate(),ltrim(), rtrim() etc (Any two function to be explained)	$1 + 1 = 2$
8.	Relational database Management System is a database management system based on relational model invented by Edgar F Codd of IBM. It uses tables for storing data's.	2