INDIAN SCHOOL MUSCAT

HALF YEARLY EXAMINATION

SEPTEMBER 2019

SET A

CLASS XI

Marking Scheme – INFORMATICS PRACTICES [THEORY]

Q.NO.	Answers	Marks (with split up)
1. (a)	(i) PROM - Programmable Read Only Memory ½ mark (ii) CPU – Central Processing Unit ½ mark	1
(b)	❖ Extended hardware support ❖ High performance CPU ❖ Integrated software support ❖ Programmability ❖ Support multiple users/operations running simultaneously. ❖ Enhanced memory and storage ❖ Enough power to run all the programs/software/hardware integrated with it. any four features required for the transition from a Calculator – 4* ½ mark	2
(c)	Any two methods to trouble shoot the following problem in your computer - All Programs on Computer run slowly 1.Check for Viruses 2. Free space on the hard drive 2 * 1 mark	2
(d)	various units of a computer with explanation 2 marks diagram 1 mark	3
2. (a)	1. Easy to use 2. Expressive Language 3. Interpreted Language 4. Complete with its standard library 5. Cross-platform language 6. Free and Open source 7. Variety of usage / Applications (Game development, GUI programs, web applications etc.) Any two advantages – 2 * 1 mark	2
(b)	difference between interactive mode and script mode in Python Interactive mode means working with one command at a time. In script mode, we type all commands and save it as a file for permanent reference. 1 mark for each	2
(c)	Guido Van Rossum developed Python Programming language.	1
(d)	(i) Emp no - invalid. Space not allowed (ii) salary12 - valid (iii)DA_all – valid. (iv) PF_New#Dept- invalid. # not allowed	2

(e)	(i) 078 - octal integer constant (ii) 0x23A – hexadecimal integer constant (iii)'Better' – String constant (iv) -4.3E12 – floating point constant in exponent form 4 * ½ mark	2
(f)	(i) "Krish\'s" = 7 (ii) 'Navi#Mumbai@12' = 14 (iii)'''This is Quite Interesting''' = 25 (iv)"It is a good\ Place" = 17 ½ mark for each	2
3. (a)	Output : 20 79 ½ mark for each value	1
(b)	(i) Rollno = 20 (ii) Age = 10 ½ mark for each	1
(c)	Python program to accept name, school and age and print them in three separate lines using a single print function. name=input("Enter your name") school=input("Enter your school name") age=int(input("Enter your age")) print(name,school,age,sep='\n') 4* ½ mark	2
(d)	type casting 1 mark example 1 mark	2
(e)	Given y=3, (i) y == 3 = True (ii) "Hello" > "hello" = False (iii) y >= 4 = False (iv) y < 7 and 4 > 5 = False Each one ½ mark	2
(f)	(i) d = ((x2 – x1)**2 + (y2 – y1)**2)**0.5 (ii) 1/3*b*b*h 1 mark for each	2
4. (a)	(a) b or c = True (b) not a and b = True (c) not((not b or not a) and c) or a = True (d) not c and a or b = True ½ mark for each	2
(b)	Accept temperatures for a week 1 mark Print average temperature 1 mark	2
(c)	Compound statement – statement has a header ending with colon and has one or more indented statements as body 1 mark Example if a>0: print("Positive") 1 mark	2
(d)	Num = int(input("Enter the number of items bought")) ½ if Num<10: Cost=Num*120 elif Num < 100: 1 Cost =Num*100	2

	else: Cost=Num*70 print("Total Cost = ",Cost) ½	
(e)	Find the error(s) in the following code and Rewrite the corrected code: Corrected code: if n==0 : ½ mark print("ZERO") elif n==1: ½ mark print("ONE") elif n==2: ½ + ½ mark print("TWO")	2
(f)	output: C D 1 mark for each value	2
(g)	Input selling price and item code ½ mark Compute gst as per conditions 2 marks Computer central gst, state gst and final amount 1 mark Display all details ½ mark	4
5. (a)	Database definition – A database may be defined as a collection of interrelated data stored together to serve multiple applications. 1 mark	1
(b)	Alternate key – candidate keys that are not primary keys 1 mark example. 1 mark	2
(c)	CREATE TABLE Employee(EmpID int Primary Key, Name varchar(20) Not NULL, Designation varchar(20), Age int, Salary Decimal(8,2)); INSERT INTO Employee VALUES(101, 'Smita Kumar', 'Secretary', 28, 39500.00); INSERT INTO Employee VALUES(102, 'Mani Scott', 'Programmer',32, 45300.00); INSERT INTO Employee VALUES(103,'Firdaus Ali', 'Programmer II', 45, 67500.00); 4 * ½ mark	2
6. (a)	degree=6 cardinality=5 ½ mark for each value	1
(b)	Select Name from HOSPITAL order by Age desc;	1
(c)	Select Name from HOSPITAL where Name Like '_a%';	1
(d)	Select Name, Age from HOSPITAL where DateofAdm is NULL;	1
(e)	Select Name from HOSPITAL where Gender='M' and DateofAdm > '2019/09/21';	1
(f)	Select PatientID, Department from HOSPITAL where PatientID > 650;	1
(g)	Insert into HOSPITAL (PatientID, Name, Age, Gender) VALUES(398,'Tarun',51,'M');	1
(h)	Update HOSPITAL set Department='Internal Medicine' where Name='Zareen';	1
(i)	Select Name from HOSPITAL where PatientID in (245, 112, 241);	1
(j)	Select Name from HOSPITAL where Gender='F' and Age between 20 and 40;	1
(k)	Alter table HOSPITAL add Doctor varchar(20);	1
(l)	Select Name from HOSPITAL where Name Like 'Z%n';	1
(m)	Delete from HOSPITAL where Department = 'Surgery';	1
(n)	Output	7

	(i) Name Sandeep Zubin Karan (ii) AVG(Age) 37.8 (iii)COUNT(*) 5 (iv)Name Sandeep Karan (v) DISTINCT Department Surgery Orthopedic Cardiology ENT (vi)Age 36 45 19 (vii) Name Zubin Zareen 1 mark for each subdivision	