

ARMY PUBLIC SCHOOL, ASC C&C BANGALORE
ANNUAL EXAMINATION 2020-21
CLASS XI – INFORMATICS PRACTICES (065)

Max Marks: 70

Time: 3 hrs

General Instructions:

1. This question paper contains two parts A and B. Each part is compulsory.
2. Both Part A and Part B have choices.
3. Part-A has 2 sections:
 - a. Section – I is short answer questions, to be answered in one word or one line.
 - b. Section – II has two case studies questions. Each case study has 4 case-based sub parts. An examinee is to attempt any 4 out of the 5 subparts.
4. Part - B is Descriptive Paper.
5. Part- B has three sections
 - a. Section-I is short answer questions of 2 marks each in which two questions have internal options.
 - b. Section-II is long answer questions of 3 marks each in which two questions have internal options.
 - c. Section-III is very long answer questions of 5 marks each

Part - A

Section - I

Attempt any 15 questions from questions 1 to 20

- | | | |
|----|---|---|
| 1. | State whether True or False : | 1 |
| | <ol style="list-style-type: none">I. FOSS is the software which is neither open nor freely available its use is regulated through licenseII. The system software which convert high level language/assembly language into machine code is called language translator | |
| 2. | What are the two different modes of Python IDLE? | 1 |
| 3. | What do you mean by a keyword? Give one example. | 1 |

4. 1
Which among the following have highest storage capacity
a) RAM b) Cache
c) ROM d) HDD
5. 1
Which of the following is/are applications of block chain?
a) Digital Currency
b) Identity Management
c) Voting mechanism
d) All of the above
6. 1
_____ providers can offer different kinds of computing infrastructure, such as servers, virtual machines (VM), storage and backup facility, network components etc.
a) SaaS b) PaaS c) IaaS d) TaaS
7. 1
_____ Which among the following is main component of 1st Generation of computers
a) Transistor b) Vacuum Tube
c) Micro Processor d) None of the above
8. 1
Fill in the blanks:
1024 ___ = 1 MB and 1024 ___ = 1 TB
a) KB & MB b) KB & GB
c) MB & KB d) TB & MB
9. 1
_____ are raw numbers or other findings which, by themselves, are of limited value
a) Data b) Information
c) Collection d) Output
10. 1
Readymade application software developed to cater to a bigger audience, in general, are called _____
11. 1
IDLE stands for _____
12. 1
List the name of two components of the CPU
13. 1

- Which among the following used for making comments in python
- a) #
 - b) ***
 - c) \$
 - d) \\
14. _____ produces unintended or undesired output or other behaviour, although it may not immediately be recognized as such 1
- a) Compile Time Error
 - b) Syntax Error
 - c) Logical Error
 - d) Runtime Error
15. Which among the following mode give immediate output in python 1
- a) Editor
 - b) Interactive
 - c) Development
 - d) Testing
16. Write a SQL command to create a database named **mydb** 1
17. What do you mean by a primary key in SQL ? 1
18. Which of the following is not a valid identifier 1
- a. Am@l
 - b. ArUn69
 - c. Arjun_VP
 - d. Anshid
19. State one difference between DDL and DML commands 1
20. Write any two features of python. 1

Section –II

Both the case study based questions (21 & 22) are compulsory. Attempt any four sub parts from each question. Each sub question carries 1 mark

21. Consider the following python string and answer any four from (i) to (v)
- St="APS ASC Bangalore"

- i. Which among the following option/s will give alternative characters from the given string 1
- a) St[0:2]
 - b) St[0::2]
 - c) St[::2]
 - d) St[::1]
- ii. Which among the following option/s will print number of characters from the given string 1
- a) print(length(St))
 - b) print(count(St))
 - c) print(len(St))
 - d) print(size(St))
- iii. Which among the following statements will print ' Bangalore' 1
- a) print(St["Bangalore"])
 - b) print(St[7:])
 - c) print(St[8:])
 - d) print(St[9:])
- iv. What will be the output of following statement 1
- print(St+"Karnataka")
- a) error
 - b) empty string
 - c) APS ASC Bangalore Karnataka
 - d) StKarnataka
- v. Which among the following will print APSAPS 1
- a) print(St[0:2]*2)
 - b) print(St[0:3]*2)
 - c) print(St[0:2]* St[0:2])
 - d) print(St[0:3]* St[0:3])

22 Consider the SQL table **BANK** given below:

CUST_ID	CUST_NAME	ACC_TYPE	EMI
101	KIRAN	CURRENT	9500
102	LATHA	SAVINGS	1000
103	CHOWHAN	SAVINGS	4980
104	KISHORE	SAVINGS	12300
105	RADHA	CURRENT	5500

- i. State the command that will give the output as : 1

CUST_NAME

KIRAN RADHA

- i. select CUST_NAME from bank where ACC_TYPE="CURRENT";
- ii. select * from bank where ACC_TYPE="CURRENT";
- iii. select CUST_NAME from bank where EMI>9000
- iv. select CUST_NAME from bank where CUST_ID IN(101, 105);

Choose the correct option

- a. Both (i) and (ii).
- b. Both (i) and (iv).
- c. Any of the options (i), (iii) and (iv)
- d. Only (ii)

ii. Which among the following command will show the given output 1

ACC_TYPE
CURRENT
SAVINGS

- a) Select ACC_TYPE from bank;
- b) Select TWO ACC_TYPE from bank;
- c) Select DISTINCT ACC_TYPE from bank;
- d) Select UNIQUE ACC_TYPE from bank;

iii. What will be the output of the following command? 1
 Select * from BANK where cust_name like '%A_';

a.

CUST_ID	CUST_NAME	ACC_TYPE	EMI
101	KIRAN	CURRENT	5500

b.

CUST_NAME
KIRAN
CHOWHAN

c.

CUST_NAME
KIRAN

d.

CUST_ID	CUST_NAME	ACC_TYPE	EMI
101	KIRAN	CURRENT	5500
103	CHOWHAN	SAVINGS	4980

iv. Which statement will give the following output

1

CUST_NAME
RADHA

- a) Select * from bank where cust_name="radha";
- b) Select cust_name from bank where acc_type="CURRENT";
- c) Select cust_name from bank where cust_id=105;
- d) Select cust_name from bank where acc_type="CURRENT" OR cust_id=105;

v. What will be the output of the following command?

1

Select cust_name, cust_id from bank where acc_type="savings";

a.

CUST_ID	CUST_NAME	ACC_TYPE
102	LATHA	SAVINGS
103	CHOWHAN	SAVINGS
104	KISHORE	SAVINGS

b.

CUST_NAME	CUST_ID
LATHA	102
CHOWHAN	103
KISHORE	104

c.

CUST_ID	CUST_NAME
102	LATHA
103	CHOWHAN
104	KISHORE

d.

CUST_NAME	ACC_TYPE
LATHA	SAVINGS
CHOWHAN	SAVINGS
KISHORE	SAVINGS

Part - B

Section – I

- 23 What will be the output produced by the following code fragments- 2
`w, x, y, z = 22, 2, 5, 27`
`print(w/4)`
`print(w//4)`
`print(x**y)`
`print(z%y)`
- 24 Write a program to find simple interest 2
 using principal, rate and time.
 Accept data from user. (SI = P×R×T/100)
- 25 Predict output of the following code: 2
`d1 = {'a': 'apple', 'b': 'boy', 'c': 'cat', 'd': 'dog'}`
`d2= {'c': 'cow', 'd': 'donkey', 'e': 'elephant', 'f': 'fox'}`
`d1.update(d2)`
`print(d1)`
`del d1["f"]`
`print(d1)`
- 26 a) Varun is confused between append() and extend() list functions. Help him to 2
 understand the difference with examples

OR

- b) Discuss and Differentiate between pop() and remove() functions with 2
 examples
- 27 Compare between char and varchar data types of SQL 2
- 28 a) Write a program to check whether the entered number by user is even or odd. 2

OR

- b) Write a program to input age of a person and print message “Eligible to 2
 Vote” if age is more than 18 otherwise print message “not eligible to Vote”.
- 29 What do you mean by DBMS ? What do you mean by degree and cardinality of a 2
 table
- 30 Briefly discuss about system software classification 2
- 31 Differentiate between public cloud and private cloud. List a few characteristics of 2
 both
- 32 How primary memory is different from secondary memory of computer? 2

Section - II

- 33 a) Accept inputs from user and create a dictionary to store employee details. Print the key-value pairs. 3

OR

- b) Discuss any 3 built-in dictionary functions with the help of examples

- 34 a) Write a program to find maximum of 3 numbers using nested if..else statement. 3

OR

- b) Write a program to accept a list from user. Create 2 separate lists for odd and even numbers from it.

- 35 Explain functional units of a computer system with the help of a block diagram? 3

- 36 Discuss different cloud service models with examples? 3

Section -III

- 37 Consider the given table **IT**: 5

E_No	Name	Desg	Salary
21	Arun E D	Tester	28000
22	Anu M N	Developer	35000
23	Benit Anto	Designer	32000
34	Cilona David	Administrator	25000
35	Vincent Gomas	Administrator	25000

Perform the following operations in SQL :

- 1) Display all the records
- 2) Display Salary and designation of Anu M N
- 3) Display names of persons whose salary in range 30000-40000
- 4) Display details of students whose name start with alphabet A
- 5) Display different job roles without duplication

- 38 Consider the list given below and write the outputs :- 5
 Nlist = ['p','y','t','h','o','n']

- 1) Nlist.remove('p')
print(Nlist)
- 2) print(Nlist.pop(3))
- 3) print(Nlist.pop())
- 4) print(Nlist[-2:-5])

5) print(Nlist*2)

39 Create SQL table **student** with following columns and RollNo as primary key 5

Column Name	Data Type	Size
RollNo	Integer	3
Sname	Character	25
DOB	Date	
Gender	Character	1
Fee	Decimal	5

Write SQL queries to perform the following operations in SQL :

- 1) Insert 3 records to students
- 2) Display details of students who born after 2000
- 3) Display details of all boys whose roll number is between 10 and 20