

O. P. JINDAL SCHOOL, SAVITRI NAGAR
SAMPLE QUESTION PAPER
Annual Examination (2022 – 2023)

Class: XI
Subject: Informatics Practices (065)

MM: 70
Time: 3 Hrs.

(Fifteen Minutes Extra will be given for reading the Question Paper)

General Instructions:

- ❖ This question paper has 6 pages.
 - ❖ This question paper contains five sections, Section A to E.
 - ❖ All questions are compulsory.
 - ❖ Section A has 18 questions carrying 01 mark each.
 - ❖ Section B has 07 Very Short Answer questions carrying 02 marks each.
 - ❖ Section C has 05 Short Answer type questions carrying 03 marks each.
 - ❖ Section D has 03 Long Answer type questions carrying 05 marks each.
 - ❖ Section E has 02 questions carrying 04 marks each. One internal choice is given in Q35.
 - ❖ All programming questions are to be answered in Python Language only.
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Section –A

- 1 A CPU can be placed on one or more microchips called _____
 - a) Transistors
 - b) Integrated Circuits (ICs)
 - c) Registers
 - d) Vacuum Tubes
- 2 Which of the following is an input device?
 - a) Monitor
 - b) Printer
 - c) Hard Disk
 - d) Joy Stick
- 3 The first binary programmable computer was-
 - a) ENIAC
 - b) UNIVAC
 - c) MAC
 - d) EDVAC
- 4 IBM introduced the first PC in for the home user in
 - a) 1980
 - b) 1982
 - c) 1981
 - d) 1979
- 5 A program refers to
 - a) set of Commands executed by Computer
 - b) software which runs in Operating System
 - c) runs the entire Operating System
 - d) utility to provide basic function
- 6 Python was developed by
 - a) Bill Gates
 - b) Monty
 - c) Guido Van Rossum
 - d) Dennis Ritchie

Q17 and Q18 are ASSERTION and REASONING based questions. Mark the correct choice as

- (a) Both A and R are true and R is the correct explanation for A
- (b) Both A and R are true and R is not the correct explanation for A
- (c) A is True but R is False
- (d) A is False but R is True

17 **Assertion(A):** A database constraint can be added or removed any time from database tables.

Reasoning(R): Alter table command is used to change the structure of table.

18 **Assertion(A):** SQL has efficient mechanisms to retrieve data stored in multiple tables in a MySQL database.

Reasoning(R): The SQL statements CREATE is used to retrieve data from the tables in a database and is also called query statement.

Section – B

19 Meet is preparing for an interview for the post of Software Developer. He has given the task to identify the category of software to accomplish the given task and two examples of each. Help him to fulfill his need.

- a) Perform basic calculations on data
- b) Fulfill the need of an individual and designed as per their requirements

20 Write a program to accept points in CCA activities, Projects and Discipline. Find the average.

OR

Identify python data type of the given variables and values:

- i. a='hello' iii. found=True
- ii. marks=80.75 iv. l=[3,7,8,2]

21 Harmin joined a school as front office executive. The school management has given him task to convert two excel worksheets STUDENT and ATTANEDANCE into a database. The files contains following structure:

Student	Attendance
Rno – To store roll no. of student	Att_date – Date of attendance
Sname – name of student	Rno – Roll no. of student
Dob – date of birth	Sname – name of student
Guardian – Guardian name	Status – present or absent

What changes Harmin has to do to convert these files into database?

22 Define the following:

- i. Attribute
- ii. Cardinality

23 Differentiate between primary key and foreign key.

OR

Differentiate between delete and drop command.

24 Kunal is working as Database Administrator in 5 star data solutions pvt. Ltd. He wants to do the following, suggest him commands to accomplish his task:

- a) He wants list all the table names present in a database
- b) He wants to change the salary of employees in emp table

25 Write the full form of:

- a) DDL
- b) DML
- c) DESC
- d) SQL

Section – C

26 Differentiate between candidate key and primary key.

OR

Observe the following table and write answers for the below given questions:

Table Name: Movie

Movie_id	Movie_name	Category	releasedate	Director
M0001	Ghandhi Godse	History	2023-01-26	Rajkumar Santoshi
M0002	Faraaz	Action	2023-02-03	Hansal Mehta
M0003	Shehzada	Drama	2023-02-10	Rohit Dhawan

- i) Write command to drop primary key from movie table.
- ii) Write command to rename column releasedate to release_date.
- iii) Write command to delete table movie

27 What are the three models of cloud services? Explain each of them.

28 What is default constraint? How to apply default constraint using create tablecommand and alter table command?

29 Give the terms used for the following:

- i) Collection of logically related records
- ii) A file having description about data stored into the database
- iii) A special value that can be used to hold unknown values
- iv) A field which can identifies distinct records but not a primary key
- v) A constraint that does not allow to leave any blank cell in table
- vi) Name any two data models that is used most commonly

30 Write a program to that finds factorial of given number.

OR

Write python program to find greatest common divisor of two numbers.

Section – D

31 Given a list l=["def","if","for","while"], predict the output of the following:

- a) print(l[1][:2])
- b) print(l[1][1])
- c) print(l[-2])
- d) print(l[:3])
- e) print(l[2][:2])

OR

Write a program to compute the square of each element and print them in reverseorder.

32 Write a python program to find the maximum marks and minimum marks fromgiven dictionary and print the difference between them.

Dictionary is as: { 'Henil':78,'Kartvya':82,'Avee':93,'Dhruvin':88,'Shaan':94 }

OR

What is a dictionary? Explain any four ways to create a dictionary with example.

33 a) Categorize the given commands into DDL and DML

- i. INSERT ii. UPDATE iii. ALTER iv. CREATE

b) What is the use of foreign key? Illustrate your answer with example.

OR

Consider the below given table and write queries for (i) to (v):

Table Name: Pet

Name	Owner	Species	Gender	Age
Monty	Aditya	Dog	M	4
Badal	Dev	Horse	M	4
Moti	Motisingh	Dog	M	3
Mittu	Harsh	Parrot	M	2
Pinky	Kartvya	Cat	F	1
Sweety	Vyas	Cat	F	2

- i) Display all the details of pets in alphabetical order of names.
- ii) Display Name, owner and age of all pets whose age is 2 to 4 years.
- iii) Increase the age of all pets by 1 year.
- iv) delete all details of female pets.
- v) insert a new record: ('Rosy','Rajveer','Dog','F',2)

Section - E

34 Observe the partial code given below and fill in the given blanks to complete the code:

```
date=_____#Statement 1
days=_____# Statement 2
due_date=_____# Statement 3
_____# Statement 4
```

- a) Enter the date into string format # Statement 1
- b) Enter days to be added # Statement 2
- c) Extract first two digits and add entered days # Statement 3
- d) Print the due date with proper message # Statement 4

35 Name the input devices and output devices from following:

- a) To accept the spoken words as input
- b) To accept data from photo
- c) What is plotter? What its primary function?

OR

What are data types? What are Python's built-in core data types?
