



BK BIRLA CENTRE FOR EDUCATION
SARALA BIRLA GROUP OF SCHOOLS
SENIOR SECONDARY CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL
MID-TERM EXAMINATION 2023-24



INFORMATICS PRACTICES (065)

Class : XI SCIENCE/COMMERCE/ARTS
Date : 13-10-2023
Admission No.:

Duration : 3 Hrs
Max. Marks : 70
Roll No.:

General Instructions:

1. This question paper contains three sections, Section A to C.
2. All questions are compulsory.
3. Section A has 18 questions of MCQ and 16 Very Short Answer type questions carrying 01 mark each.
4. Section B has 12 Short Answer type questions carrying 02 marks each.
5. Section C has 04 Long Answer type questions carrying 03 marks each.
6. All programming questions are to be answered using Python Language only.

Section-A

1. Which of the following memory types cannot store the data or information permanently ? 1
(a) RAM (b) Cache (c) Flash Memory (d) Hard disk
2. The ____ mode of Python gives instant result of typed statement. 1
(a) Interactive mode (b) Script mode (c) Combination of interactive and script mode
(d) All of these
3. Data items having fixed value are called _____. 1
(a) Identifiers (b) functions (c) Keywords (d) literals
4. Value 0.000615 is equivalent to: 1
(a) 615E3 (b) 615E-3 (c) 0.615E3 (d) 0.615E-3
5. Which python built-in function returns the unique number assigned to an object ? 1
(a) identity() (b) id() (c) refnum() (d) ref()
6. In Python statement $x=a + 5 - b$, **a** and **b** are _____. 1
(a) Operands (b) Expression (c) Operators (d) Equation
7. An empty / null statement in Python is _____. 1
(a) go (b) pass (c) over (d) ;
8. Function range(0, 5, 2) will yield on iterable sequence like 1
(a) [0, 2, 4] (b) [1, 3, 5] (c) [0, 1, 2, 5] (d) [0, 5, 2]
9. The order of statement execution in the form of top to bottom, is known as ____ construct. 1
(a) selection (b) repetition (c) sequence (d) flow
10. Which of the following will create an empty list ? 1
(a) L=[] (b) L= list() (c) L=list[] (d) L=list(empty)
11. Which of the following can delete an element from a list, if its value is given ? 1
(a) pop() (b) remove() (c) del (d) all of these

12. Repetition of data is called data _____. 1
 (a) Dependency (b) Redundancy (c) Inconsistency (d) Isolation
13. A _____ is an organized collection of structured data. 1
 (a) Information (b) File (c) Database (d) DBMS
14. The query language of a relational database is called _____. 1
 (a) SQL (b) DDL (c) DML (d) TCL
15. Number of attributes in a relation is called _____. 1
 (a) size (b) degree (c) cardinality (d) weight
16. Pool of values from where a column draws its value is called _____. 1
 (a) table (b) attribute (c) dataset (d) domain
17. What will be the output of $87 // 5$? [Note: // is floor division] 1
 (a) 17 (b) 17.4 (c) 17.0 (d) Option b and c
18. What is the binary number of $(154)_{10}$ Decimal system: 1
 (a) 10011010 (b) 10010010 (c) 100101010 (d) 10110101
19. What is Cache memory ? 1
20. What does a cross platform language mean ? 1
21. What will the following code result into ? 1
`n1, n2 = 5,7
 n3= n1+n2
 n4=n3+2
 print(n1, n2, n3, n4)`
22. What will be the output of the following statements ? 1
`list1 = [12,32,65,26,80,10]
 list1.sort()
 print(list1)`
23. What will be the output of the following statements ? 1
`list1 =[1,2,3,4,5]
 print(list1[len(list1)-1])`
24. If a is [1,2,3,4] 1
 What is the difference between $a[1] = 4$ and $a[-1] = 4$?
25. Define Primary Key. 1
26. Name few RDBMS that is open source and freeware. 1
27. How many primary keys can be defined in a table ? 1
28. Name the SQL command to open the database. 1
29. Mr. Arpit wants to view all the tables in the database. Which SQL command should he use ? 1
30. Mr. Verma wants to view the structure of a table. Which SQL command should he use ? 1
31. Consider the table with structure as : 1
Student (ID, name, dept_name, tot_cred)
 In the above table, which attribute will form the primary key ?

Write SQL commands for the following on the basis of given table SPORTS :

Table : SPORTS

StudentNo	Class	Name	Game	Grade
10	7	Sameer	Cricket	B
11	8	Sujit	Tennis	A
12	7	Kamal	Swimming	B
13	7	Venna	Tennis	A
14	9	Archana	Basketball	A
15	10	Arpit	Cricket	A

32. (i) Display the name of those students who have grade 'A' . 1
33. (ii) Display name and class of those students who are game 'Cricket'. 1
34. (iii) Display the name of those students whose name starts with a letter 'A'; 1

Section-B

35. Differentiate between Proprietary software and Free software. 2
36. 'Python is an interpreted high level language'. What does it mean to you ? 2
37. "Comments are useful and easy way to enhance readability and understandability of a program." Elaborate with examples. 2
38. Why are logical errors harder to locate ? 2
39. Write a program in python that accept three numbers and determine the largest and smallest number. 2
40. Write a program in python that takes name and age of the user as input and displays a message whether the user is eligible to apply for a driving license or not. (the eligible age is 18 years). 2
41. What is a statement in Python ? What is the significance of an empty statement ? 2
42. What is the difference between append() and extend() function ? Give example. 2
43. Write a program in python to create a list of number and then find the sum of elements of the list. 2
44. How are SQL commands classified ? Give example 2
45. Differentiate between CHAR and VARCHAR datatype in SQL. 2
46. Ms Alka wants to add a new column in table **BOOK**. Help her to do the same. 2
The detail is given :column name: ISBN
datatype: integer
size: 13
Constraint : Not Null

Section-C

47. What are mutable and Immutable types ? List immutable and mutable data types of Python. 3
48. Write a python program using any loop to display pattern as given below: 3
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
49. Create a **MENU driven** program in python where user will have the freedom to create a list of integers and will also be able to add, remove and view all the elements. 3

50. Write a SQL command to create a table of the given structure:

3

Table Name: **STUDENT**

Field Name	Data Type	Size	Constraint
Admno	Integer	7	Primary Key
First Name	Varchar	30	Not Null
Last Name	Varchar	30	Null
Class	Char	3	Not Null
Contact No	Varchar	11	Null

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