

# AMRITA VIDYALAYAM

## SECOND TERMINAL EXAMINATION 2018 - '19

Class : XI

Marks : 70

Time : 3 hrs

### INFORMATICS PRACTICES

1. What do you mean by BIOS? 1
2. Expand the following. 2
  - a) RDBMS
  - b) IDE
  - c) CA
  - d) DTP
3. What is MySQL? 1
4. What is an Assembler? 1
5. Name any two Utility Softwares. 1
6. What is digital signature? 1
7. What is CAPTCHA code? 2
8. Define. 2
  - a) Tuple
  - b) Cardinality
  - c) Attribute
  - d) Degree
9. A table school has 5 columns and 17 records. What is the degree and cardinality of this table? 1
10. What command is used for? 2
  - a) To change / Open a database.
  - b) To view the table structure.
11. Differentiate CHAR and VARCHAR data types. 2
12. What is a Primary Key? What is its purpose in a table? 1
13. What are the difference between DELETE and DROP command? 2
14. What is an Application Software? Why is it required? 2
15. What are the different categories of MySql Commands? Explain with examples. 3
16. Which keyword is used to eliminate the redundant data from a query Result? 1
17. What would be the output of the following. 6
  - a) `Select substring("Practices",3);`
  - b) `Select 1000 +sqrt(100);`
  - c) `Select Truncate (1.223,1);`
  - d) `Select CHAR(65);`
  - e) `Select INSTR('Informatics','mat');`
  - f) `Select MOD (14*9, 90/9);`
18. What is aggregate function? Give examples. 2
19. Define a function. What are the types of functions available in MySQL? 3
20. Which function displays the current date and time? 1
21. Differentiate between Single user Operating System and Multi user Operating System. 2
22. What are file access permissions? Explain. 2
23. What is the significance of a firewall in a computer's security scheme? 2
24. Differentiate between candidate key and alternate key. 2
25. What is the purpose of column alias? 1
26. Differentiate between worm and virus. 2
27. What is the purpose of Order By clause? Explain it with the help of an example. 2
28. Explain the different data types used in MySql. 3
29. Create the table structure TOUR. 2

TourNo\_varchar(5) primary key,  
BusNo\_varchar(15),  
TicketPrice Integer

30. Write short note on the following. **3**  
 a) Device Drivers                      b) Packages                      c) Cookies
31. Why antivirus is essential for computers? **1**
32. Consider the following table STUDENT and answer the following.

Roll.No	Reg.No	Name	Class	Stream	DOB	Gender	Income
12100	2976	Dinesh	11	Science	1985-03-25	M	20000
12101	4323	Manish	11	Arts	1985-07-13	M	25000
12102	5734	Saritha	11	Science	1986-11-12	F	30000
12103	5534	Amit	9	NULL	1989-02-15	M	25000
12104	8734	Pooja	12	Science	1984-04-11	F	70000
12105	8623	Prateek	12	Science	1984-12-12	M	45000
12106	9012	Maya	8	NULL	1990-10-10	F	12000
12107	7734	Himani	11	Arts	1987-08-27	F	47000
12108	8723	Raja	7	NULL	1989-09-19	M	32000
12109	5522	Pankaj	12	Arts	1986-05-23	M	15000

- Write the SQL commands for each of them. **10**
- a) Display Rollno, registration number and names of all Students.  
 b) Display all details of the students of class 11.  
 c) Display all details of class 12 of science stream.  
 d) Display names of students whose name ends with character 'a'.  
 e) Display details of students of class 7, 8 and 9.  
 f) Display names of the students whose father's monthly Income is between 40,000 to 50,000.  
 g) Display Income column by multiplying with 12 and assign new name as 'Annual Income'.  
 h) Delete the record of student whose registration no is 4323.  
 i) Display names of the students who are born after 1987-12-31.  
 j) Display all the details of female students.
33. What is Compression Utility Software? **1**