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UG-III/Comp.App.-V(M)/21

**2021**

**COMPUTER APPLICATION**

**[MAJOR]**

**Paper : V**

Full Marks : 100

Time : 4 Hours

*The figures in the right-hand margin indicate marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any **five** questions:  $1 \times 5 = 5$
- i) What is the full form of LAN, MAN, WAN, WWW?
  - ii) Name an example each of primary memory and secondary memory.
  - iii) Give full form of the following:  
CPU, UPS, ALU, DMP.
  - iv) Give the names of four different types of computers.
  - v) What is a relation in DBMS?
  - vi) Java Script statements can be grouped together in \_\_\_\_\_.
  - vii) What is DNS?
  - viii) What are IRQ conflicts?

2. Answer any **ten** questions:  $2 \times 10 = 20$
- i) What are the advantages and drawbacks of an applet?
  - ii) Explain the use of break statement in Java script.
  - iii) Explain the usage of heading tag in html.
  - iv) Define Java InetAddress class.
  - v) Explain String Functions in Visual Basic.
  - vi) Explain the use of SQL commands select, insert with an example of each.
  - vii) What is the significance of primary key, secondary key and foreign key in DBMS?
  - viii) What is E-mail? Give the entities in an e-mail address.
  - ix) Give the difference between RAM and ROM.
  - x) What is the difference between HTML and DHTML?
  - xi) Give the linux/unix command for the following:
    - a) Copy a file
    - b) Move a file from one directory to another

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- c) Show the date and time
- d) Show the process running in the system.

xii) Write the process of computer shutdown.

3. Answer any **five** questions:  $6 \times 5 = 30$

i) Explain 3NF and BCNF with suitable example.

ii) Explain the use of following Tags in HTML:

- a) Caption
- b) TR
- c) TD
- d) TH
- e) BR
- f) Heading

iii) Design a HTML page with form with the following requisites for an online examination:

- a) The page should display Name of the Exam, the posts which can be applied for and date of the exam at the top.
- b) Scope for entering Name of applicant, address, e-mail and phone no in separate text box.

c) Use check box for selecting Male/ Female.

d) Use radio button for selecting the post applied for.

e) Submit and Reset button.

iv) Explain the ISO-OSI model.

v) What are the different variables in Java? Give one example of each to explain their uses.

vi) Write the SQL statements:

a) Creating a table student (*rollno number(6), name varchar(20), branch-varchar(20)*).

b) Inserting data into the student table.

c) Deleting a row from the table

d) Delete all the data from student table.

4. Answer any **three** questions:  $15 \times 3 = 45$

i) a) Consider following Schema Employee (ENO, ENAME, Department, Designation, DOJ, Salary, Dept\_Location)

Solve the following query:

I) List the employees having

Designation as “Manager” and  
.Dept\_Location as “Mumbai”.

- II) List ENO, ENAME, Salary of employees having Salary between Rs. 20,000/- to Rs.30,000/-.
- b) Write a shell script for finding first n 100 numbers.
- c) Explain formatting tag in html.
- d) Explain the SJF process scheduling with an example.  $4+3+3+5=15$
- ii) a) Explain control structures in Visual Basic.
- b) Explain the application and transport layers of TCP/IP.
- c) Give the difference between RAM and ROM.
- d) Give names of two browsers which you use for accessing internet in your computer.  $4+5+4+2$
- iii) a) Give the ranges of IP address for different classes in classfull IP address scheme. Also give the default subnet mask for each class as applicable.

- b) What are transactions? What is consistency of transaction?
- c) Explain the steps for uninstalling a software in windows. Give the steps how will you connect a printer and make it ready for use.  $6+(2+3)+(2+2)=15$
- iv) a) Write a Java program that prints numbers from 1 to 10 line by line.
- b) Explain Inheritance. What are the different types of available in Java? Give an example of each.
- c) Write a Java script to demonstrate use of decision making and looping.  $(2+2)+6+5=15$
- v) a) What is routing? Explain the working of Bellman Ford routing algorithm with an example.
- b) Explain the CSMA/CD access protocol.
- c) Explain the different topologies that are used in LAN.  $(2+4)+5+4=15$