

This question paper contains 4 printed pages]

Your Roll No.

5614

B.A. Prog./III

D

APPLICATION COURSE

Computer Application

(Admissions of 2004 and onwards)

Time : 2 Hours

Maximum Marks : 40

(Write your Roll No. on the top immediately on receipt of this question paper.)

Note :— The maximum marks printed on the question paper are applicable for the students of regular colleges. These marks will, however, be scaled up proportionately in respect of the students of Category 'B' at the time of posting of awards for compilation of result.

Answer Question No. 1 and any four

questions from the rest.

1. (a) Explain any *three* ports and also name different devices that are connected to that ports.

3

P.T.O.

- (b) What is primary key ? How is it different from candidate key ? Illustrate with an example. 3
- (c) What is optical fibre ? Write down its advantages and disadvantages. 3
- (d) Explain the different modes in which Visual Basic operates. 3
2. (a) Draw a block diagram to illustrate the basic organization of a computer system and explain the functions of various units. 5
- (b) Give any *two* properties of fourth generation computer. 2
3. (a) What is a system bus ? Explain different units of the system bus. 4
- (b) Explain *three* different categories of cache memory. 3
4. (a) What is data communication ? Explain different components of data communication system. 4
- (b) Briefly explain any *three* network topologies. 3

5. (a) Explain the different softwares required to connect the Internet. 3

(b) Explain any *four* applications of Internet. 4

6. (a) For the following tables of a database : 4

EMPLOYEE (empno, Name, Address, salary deptno)

DEPARTMENT (deptno, Deptname, location)

Write down the following SQL queries :

(i) List the names of the employees who are drawing a salary more than 40000.

(ii) List department name and location of all the departments. List should be sorted by department name-wise.

(b) What do you mean by relationship ? Explain various types of relationship with examples. 3

7. (a) Differentiate between check box and option button. 2
- (b) Project 1 contains a form named form 1. Labels and text boxes are placed on the above form for basic pay, DA, HRA, TA and Gross Salary. You have to write the code for calculating DA, HRA, TA and Gross Salary. Only basic pay taken as input from the user. The conditions for the above calculations are as follows :
- (i) $\text{HRA} = 30\%$ of Basic pay.
- (ii) $\text{DA} = 16\%$ of Basic pay
- (iii) If $\text{basic} \geq 20000$ then TA is 15% of Basic pay otherwise TA will be 20% of basic pay.
- (iv) $\text{Gross} = \text{Basic pay} + \text{DA} + \text{HRA} + \text{TA}$. 5