

Third Terminal Examination

Computer Systems

Std 17

Marks 20

Time 1 1/2 hrs

i) Fill in the blanks:-

- 1) CPU needs a storage area called .....
- 2) Any two examples for impact printer and non-impact printer .
- 3) Full form of FORTRAN .....
- 4) ..... and ..... are examples of operating system.
- 5) 1 Gigabyte = ..... Mega byte
- 6) ..... means duplication of data .
- 7) In a database table , a column containing certain information is called a .....
- 8) The information given under ..... in a report appears at the top of each page in a report .
- 9) In Qbasic , the variable p\$ can store ..... types of data.
- 10) ..... is a non executable statement .

[10]

ii) Answer the following :-

- 1) Write any two advantages of laser printer ?
- 2) What is system software ?
- 3) Classify the following devices into 3 categories  
( Output device , Storage device or input device)  
Microphone , plotter , flash drive , LCD projector , Optical disk  
Touch screen , optical scanner , speaker
- 4) What is Database Management System ? Give any two examples
- 5) What is the need of electronic database ?
- 6) Write the steps for creating a data base in MS Access ?
- 7) Write the steps for sorting on multiple fields in MS Access ?
- 8) Name different sections in a Report in MS Access ?
- 9) Convert the following from decimal to binary  
a) 73      b) 113
- 10) Convert the following from binary to decimal  
a) 1011011      b) 1101011
- 11) Add binary numbers  
a) 1111 and 1011      b) 1101 and 1011

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- 12) Convert into binary and add  $122+133$  [4]
- 13) A shop keeper sells an item for Rs 7500/- and the cost price of an item is Rs 5000/- only . Write a program to find the actual profit and profit percentage . [5]

$$\text{Profit} = \text{selling price} - \text{cost price}$$

$$\text{Profit percentage} = \text{profit}/\text{cost price} \times 100$$

- 14) Write a program to input name of the employee and basic pay . Find the gross salary based on the following conditions

$$\text{Dearness Allowance(DA)} = 33\% \text{ of basic pay}$$

$$\text{House Rent Allowance(HRA)} = 15\% \text{ of basic pay}$$

$$\text{Provident Fund (PF)} = 8.5\% \text{ of basic pay}$$

$$\text{Net Pay} = \text{basic pay} + \text{DA} + \text{HRA}$$

$$\text{Gross pay} = \text{Net pay} - \text{PF} \quad [5]$$

- 15) Write a program to find the volume of a sphere using the formula [4]

$$\text{Volume} = \frac{4}{3} \pi r^3$$

- 16) Write a program to accept name , phone number and monthly salary of an employee . Compute the annual income tax as 5.5% of the annual salary . [4]

- 17) Write a program to input consumer name and salary , Find the gross salary of a consumer as per the given condition .

$$\text{LIC Premium amount} = 15\% \text{ of salary}$$

$$\text{Gross salary} = \text{salary} - \text{LIC premium amount} \quad [5]$$

- 18) A student sit for an examination which has three subjects English , Maths and Computer . Marks are awarded separately for each subject. Write a program to input the marks in each subject . Find the total marks obtained and percentage of marks. Maximum mark in each subject is 30 . [5]

- 19) Write a program to determine the monthly pay for one employee . His net pay(p) is equal to the gross pay (g) less deductions(d) . Gross salary is the product of his daily rate (r) and the number of days worked (n). Input the daily rate and the number of days worked and calculate the Gross pay .