

This question paper contains 4 printed pages.

2002

Your Roll No.

MHROD / I Sem.

A

Course 617 – COMPUTER APPLICATION – I

(Admissions of 2004 and onwards)

Time : 2 hours

Maximum Marks : 50

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

All questions are compulsory. Question No. 1 is of 5 marks.

All other questions are of 15 marks.

1. Write short notes on the followings: (1X5=5)

- a) Magnetic Disk
- b) Open Source Software
- c) Macro in MS Word
- a) PPMT Function in Excel
- d) $(2AB)_{16} = (?)_2$

2. Attempt the following questions : (7.5X2 = 15)

- (a) “Although, the internal architecture design of computer differs from one system to another, but the basic organisation remains same”. Discuss.

- (b) “Today, the computers are classified based on their mode of use”. In the light of this statement discuss the different types of computer.

Or

- (c) A student is preparing a project of 50 pages, for the award of Post Graduation Degree. He was advised to use Portrait orientation but due to three big sizes of tables the student wants to use Landscape orientation on page number 33, 38 and 43 to adjust the tables in the project. Suggest

Turn over

the steps to insert the three Landscape orientation pages at appropriate place and the page number must be in continuation for the whole project.

- (d) A researcher is required to prepare the endnotes of every chapter. The numbering pattern developed for the end notes must be linked with the exact references. Suggest the researcher to follow the steps to develop the end notes with the help of suitable examples.

3. Attempt the following questions : (7.5X2 = 15)

- (a) "The various processing techniques were evolved for effective use of CPU time and I/O devices by means of Operating System". In the light of this statement discuss the different functions and types of Operating System.
- (b) "Application Software are set of programs designed to do some specific task." In the light of this statement discuss the different types of Application Software.

Or

- (c) Discuss the Managerial Applications of Computers under the different functions of Management.
- (d) Explain any five different types of charts available in M S Excel with the help of examples and diagrams.

4. Attempt any *three* of the following questions: (5X3 = 15)

- a) Distinguish between the Formula and Functions in Excel worksheet with the help of suitable examples?
- (b) Explain And and OR functions of M S Excel with the help of examples.
- (c) A Company "Aman & Sons Private Ltd." is having five employees. Employees are entitled to

Basic, DA, HRA and CCA. Show the appropriate working on M S Excel sheet and write down the appropriate formulas in relevant cells for DA, HRA and CCA to prepare a detailed generalized Payroll Report for the month of October, 2010 on the basis of given information:

- i) DA is payable @ 10% on Basic but subject to maximum Rs 4000.
- ii) HRA Dependent on Basic
 30% of Basic if Basic <30000
 10% of Basic if Basic >=30000.
- iii) CCA is payable @ 10.5% of Basic Plus DA.

(Assume that A3 to A7 contains Employee Code, B3 to B7 contains Basic Salary, C3 to C7 contains DA, D3 to D7 contains HRA, E3 to E7 contains CCA).

For the following data calculate the following:

| | A | B | C | D | E |
|---|---------------|------------------------|------------------------|------------------------------|---------------|
| 1 | Region | Salesman's Name | Amount (In Rs.) | Questions | Values |
| 2 | West | Himanshu | 50000 | Total Sales | |
| 3 | East | Prinkaya | 10000 | Average Sales | |
| 4 | North | Himanshu | 32000 | Range of Sales | |
| 5 | East | Kapil | 42000 | Total Sales in East Region | |
| 6 | North | Prinkaya | 15000 | Total Sales made by Himanshu | |

- i. Write the formula in E2 to find out the Total Sales.
- ii. Write the formula in E3 to find out the Average Sales.
- iii. Write the formula in E4 to find out the Range of Sales.
- iv. Write the formula in E5 to find out the Total Sales in East Region.
- v. Write the formula in E6 to find out the Total Sales made by Himanshu.
- (d) From the following terms and condition in M S Excel sheet, find out the followings:

| | A | B | C | D | E |
|---|--|----------|---|---|----------|
| 1 | Annual Interest Rate | 8% | | Monthly Interest Rate | 6% |
| 2 | Years Required For Plan on Saving | 20 | | Number of Years In The Loan | 10 |
| 3 | Amount of Savings (In Rs) | 5,00,000 | | Amount of Loan (In Rs) | 2,00,000 |
| 4 | Amount to Save Each Month to Have Rs 5,00,000 At The End of 18 Years | | | Principal Payment For The Fifth Year of The Loan In the beginning | |

- i. On the basis of information provided in A and B Columns, write down the formula in B4 to find out the Amount to be saved each month to have Rs 5,00,000 at the end of 18 years.
- ii. On the basis of information provided in D and E Columns, write down the formula in E4 to find out the Principal Payment for the Fifth Year of the Loan in the beginning.

- (e) A Company 'Raj Pvt. Ltd.' needs to purchase a new machine and has a choice of two machines that will provide the same function. Machine A cost Rs 300,000 and would provide savings of Rs 78,000 for the next five years. Machine B cost Rs 250,000 and would provide savings of Rs 75,000 for the next 5 years. The company's discount rate is 10%. Show the appropriate formula and working on M S Excel Sheet to find out the NPV. Suppose NPV of Machine A comes Rs (-) 4318.63 and NPV of Machine B comes Rs 34309.01. Comment on the result and find out which machine will suit to the organisation from the investment point of view and why?