ED-1006

P.G. Diploma in Computer Application
1st Semester Examination, March-April 2021

INTRODUCTION TO
SOFTWARE ORGANIZTION

(PGDCA - 101)

Time : Three Hours]   [*Maximum Marks* : 100

Note : Answer any **two** parts from each question. All questions carry equal marks.

Unit-I

1. (*a*) Draw a block diagram of a computer and explain each component of computer.

    (*b*) What do you mean by input devices and output devices of a computer ? Explain each type of device in brief.

    (*c*) Explain the following terms :

    (*i*) Types of computers

    (*ii*) Development of processors

(2)

Unit-II

2. (*a*) What are the differences between RAM and ROM ? Explain the various types of RAM and ROM.

(*b*) What do you mean by Memory ? Explain primary memory and secondary memory in brief.

(*c*) Write short notes on the following :

(*i*) SIMM

(*ii*) DIMM

(*iii*) Data storage and retrieval systems

Unit-III

3. (*a*) What is Software ? What are the needs of softwares in computer ? Explain application software and system software in brief.

(*b*) Differentiate among compiler, assember and interpreter. Also give example of each and explain.

(*c*) Write short notes on the following :

(*i*) Booting process

(*ii*) Types of reboot

(*iii*) Types of operating system

(*iv*) DOS commands

(3)

Unit-IV

4. (*a*) What are the characteristics of information ? Explain data, information and knowledge.

   (*b*) What do you mean by object-oriented programming ? Explain the various features of object-oriented programming.

   (*c*) Discuss the following :

   (*i*) Functional programming

   (*ii*) Program development steps

Unit-V

5. (*a*) What is computer network ? Explain the various types of computer network in detail.

   (*b*) What is communication protocol ? Explain FTP, Telnet, SMTP, IP in brief.

   (*c*) Write short notes on the following :

   (*i*) Application of internet

   (*ii*) www

   (*iii*) E-mail

   (*iv*) ISP (Internet Service Provider)

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Paper - II

Programming in 'C'

Time : Three Hours]   [*Maximum Marks* : 100

Note : Answer any **two** parts from each question. All questions carry equal marks.

Unit-I

1. (*a*) Explain displaying and reading variables.

   (*b*) What is operator ? Explain any four types of operator used in C.

   (*c*) Explain basic Input/Output functions with their respective syntax and example.

Unit-II

2. (*a*) What is control statement ? Explain if ...... else statement with example.

   (*b*) Write a program for the following formula

   $$(a^2 + b^2) / 4a$$

   (*c*) What is loop ? Explain while and do-while loop with example.
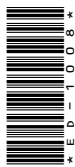
(2)

Unit-III

3. (*a*) What is Function ? Explain user defined and library function with example.

   (*b*) Explain the following with example :

   (*i*) Function Parameter

   (*ii*) Arrays of Strings

   (*c*) What is Array ? Explain multidimensional array with example.

Unit-IV

4. (*a*) Define Pointer and their use with suitable example.

   (*b*) Explain void pointers and pointer variables with example.

   (*c*) Write a program to sort the string using pointer exchange.

Unit-V

5. (*a*) Explain the declaring and using structure with example.

   (*b*) Explain the following :

   (*i*) Array within structure

   (*ii*) Scope of Union

   (*c*) What is Union ? Explain the difference between union and structure.

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Paper - III

Office Automation and Tally

Time : Three Hours]   [*Maximum Marks* : 100

Note : Answer any **two** parts from each question. All questions carry equal marks.

Unit-I

1. (*a*) Explain the terms desktop, shortcut icon, taskbar and start menu.

    (*b*) What is Dial-up Networking ? How does dial up network work ?

    (*c*) Explain the following :

    (*i*) Recycle Bin

    (*ii*) Notepad

(2)

Unit-II

2. (*a*) Discuss table and charts in MS Word.

   (*b*) What is database in Excel ? How to create college database in MS Excel ? Implement any three database functions in college database.

   (*c*) Explain the following :

   (*i*) Using thesaurus

   (*ii*) Macros

Unit-III

3. (*a*) What do you understand by MS PowerPoint ? Discuss animations and linking.

   (*b*) Explain different categories of slide show in MS PowerPoint.

   (*c*) Describe the adding sound and movies in MS PowerPoint.

Unit-IV

4. (*a*) What is MS Access ? Explain the terms database, tables, fields and data types.

   (*b*) Discuss data controls and data expressions in MS Access.

   (*c*) Describe the responsibilities of switch boards manager.

Unit-V

5. (*a*) What is voucher and types of vouchers ? How can you use voucher in Tally ?

   (*b*) Explain the alteration and deletion of ledger or groups.

   (*c*) Describe the outline of entry for Income Tax.

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