Series : SKS/1

Code No. 179/1

Roll No. ☐☐☐☐☐☐☐

Candidates must write the Code on the title page of the answer-book.

- Please check that this question paper contains **3** printed pages.
- Code number given on the right hand side of the question paper should be written on the title page of the answer-book by the candidate.
- Please check that this question paper contains **5** questions.
- **Please write down the Serial Number of the question before attempting it.**
- 15 minutes time has been allotted to read this question paper. The question paper will be distributed at 10.15 a.m. From 10.15 a.m. to 10.30 a.m., the students will read the question paper only and will not write any answer on the answer-book during this period.

IT SYSTEMS
(Theory)

Time allowed : 3 hours]   *[Maximum Marks : 50*

Instruction : *All questions are compulsory.*

1. Expand the following abbreviations and write a brief description about each :   5

     (a)   CAD

     (b)   FAT

     (c)   MBR

     (d)   WWW

     (e)   FTP

2. Fill in the blanks with suitable word(s) :   5

     (a)   A _____ is used to amplify signals carried by a network.

     (b)   Sanjay e-mailed a file to Chavi. The file included a digital _____ that verified the document's creator.

     (c)   Hard disk, Pen drive, CD ROM are examples of _____ storage media.

     (d)   _____ is the batch file that DOS automatically executes when a computer boots up.

     (e)   An e-mail address is made up of two parts : a username and an e-mail provider, with an '_____' symbol in the middle.

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(f) _____.SYS is the configuration file for DOS systems.

(g) _____ is a way of reducing the size of file(s), so that they do not take up a lot of space on a server or hard drive and can travel faster over a network.

(h) Internet Explorer, Mozilla Firefox and Apple Safari are examples of _____.

(i) The computer that is connected to a network is called a _____.

(j) The translation of data into a secret code for data security is called _____.

3. Answer the following questions : **8**

(a) List two tasks for which Robots are used in Manufacturing Industries.

(b) How computers are useful in investigation and analysis of crimes ? Give any two examples.

(c) What is the use of a server in computer network ?

(d) What is File compression ?

(e) Define Digital Signature.

(f) Name the term used for a moving display on screen that activates when the screen is left idle for a given time.

(g) What is the use of typing cd\ at the command prompt in DOS ?

(h) Which communication device can convert analog signals to digital signals and vice versa so that data can travel over analog telephone lines ?

4. Answer the following questions : **12**

(a) How is Authentication different from Authorisation with respect to Data security ?

(b) List any three threats to security of data on your computer.

(c) List three Internet services used for Online communications.

(d) What is Videoconferencing ? List two advantages.

(e) Define Virtual Reality.

(f) What happens inside the computer when we defragment a hard disk ?

(g) Write DOS Command to rename the file old.cpp to new.cpp.

(h) Distinguish between 'Logout' and 'Shutdown' a computer.

5. Answer the following questions : 20

    (a) Write the purpose of Arithmetic and Logic Unit in the computer.

    (b) What is the purpose of Scandisk utility ?

    (c) Write two advantages of networking computers in a network.

    (d) Write two advantages of buying goods over Internet.

    (e) Expand FTP. What is the application of FTP ?

    (f) How is File Allocation Table used in a computer ?

    (g) Expand BIOS. Write use of BIOS in computer.

    (h) What is the meaning of "Booting a Computer" ?

    (i) Distinguish between Encryption and Decryption of data.

    (j) What is Newsgroup ? How discussions done in a Newsgroup ?

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