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Roll No._____ *To be filled in by the candidate*

(New Pattern)

Paper Code | 6 | 8 | 3 | 3

Computer Science (Objective Type)

Time: 20 Minutes

Marks: 17

NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to each question are given.Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided.

1.1. Which of the following is the most devastating loss to a company?

(A) Loss of hardware   (B) Loss of data   (C) Loss of software   (D) Loss of printouts

2. Another name for antivirus is:

(A) Vaccine   (B) Worm   (C) Trojan Horse   (D) DES

3. An operating system is a:

(A) System utility   (B) Application software   (C) System software   (D) Software package

4. Which of the following is used to find information on world wide web?

(A) Web Browser   (B) Website   (C) Search Engine   (D) Web server

5. Softcopy refers to:

(A) Screen output   (B) Peripheral devices   (C) OCR   (D) Printer

6. System requirements are created during:

(A) Analysis   (B) Design

(C) Preliminary investigation   (D) Development

7. A connection for similar networks uses:

(A) bridge   (B) Gateway   (C) NIC   (D) Cable

8. One or more computers connected to a hub is:

(A) Ring network   (B) Bus network   (C) Star network   (D) Mesh network

9. How many characters in ASCII 8-bit code represent?

(A) 128   (B) 256   (C) 500   (D) 364

10. Data communication requires only a:

(A) Sender   (B) Receiver   (C) Medium   (D) All of these

11. CAL stands for:

(A) Computer Aided Learning   (B) Computer Assist Learning

(C) Computer added Learning   (D) Computer add Learning

12. Most applications of robotics are in which area?

(A) Cooking   (B) Manufacturing   (C) Teaching   (D) Farming

13. Which of the following register acts as counter register?

(A) Ax   (B) Bx   (C) Dx   (D) Cx

14. Which of the following is not the component of CPU?

(A) Primary memory   (B) Register   (C) Control unit   (D) ALU

15. Memory is made up of:

(A) Set of wires   (B) Set of circuits   (C) Cells   (D) BIOS

16. Computer cannot boot if it does not have:

(A) Compiler   (B) Linker   (C) Interpreter   (D) Operating system

17. CPU provides enabling signal through:

(A) Control bus   (B) Data bus   (C) Address bus   (D) Ordinary bus

Session;2012-2014,2013-2015&2014-2016

Computer Science (Essay Type)

Time: 3:10 Hours   Marks: 83

Section -I

2. Write short answers of any eight parts from the following.   2 x 8 =16

i. What is video adapter?   ii. List different components of SDLC.

iii. Compare system software with application software.   iv. What do you know about workgroup computing?

v. Enlist different components of LAN.   vi. Define the term "Internet".

vii. What is communication media?   viii. Explain the term "baseband".

ix. What is meant by full duplex mode of data transmission?   x. What do you know about copyright act?

xi. Define pirated software.   xii. Explain activation of computer virus.

3. Write short answers of any eight parts from the following.   2 x 8 =16

i. What is SRAM?   ii. What is system bus?

iii. Define customized software.   iv. What is GUI?

v. What is segment register?   vi. Define DMA.

vii. Differentiate between ROM and RAM.   viii. Define interpreter.

ix. What is the use of window explorer?   x. Differentiate between multitasking and multiprocessing.

xi. State the use of page setup dialog box. xii. Define header and footer in MS word.

4. Write short answers of any six parts from the following.   2 x 6 =12

i. How computers are used in marketing?   ii. Define desktop publishing.

iii. Differentiate between CAD and CAM.   iv. Define term video conferencing.

v. What do you mean by CBT?   vi. What is purpose of recycle bin?

vii. Define command line operating system.   viii. What is use of web server?

.ix What is purpose of search engine?

Section -II

Note: Answer any three questions from the following.   8x3=24

5. What is SDLC?Write a note on its system design phase and implementation phase.   08

6. Define network topology.Explain Bus and ring topology.   08

7. What is guided media?Discuss different guided media.   08

8. Explain the fetch-decode-execute cycle of CPU.Also draw its diagram.   08

9. Discuss different security threats to data security.What are solutions of these threats?   08

Section -III (Practical)   5x3=15

Note:Answer any three parts from the following.

10.(A). Write the steps needed to open recently used documents.

B. Write a procedure to insert word ART in MS-word document.

C. Write a procedure to insert rows and columns in MS-word document.

D. Write a procedure to calculate the product and sum of four numbers using function in MS-Excel.

E. Write a procedure in MS-Excel to merge and centre cells in work sheet.

Computer Science (Objective Type)

Time: 20 Minutes   **Marks: 15**

NOTE: Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & D to each question are given. Which answer you consider correct, fill the corresponding circle A,B,C or D given in front of each question with Marker or pen ink on the answer sheet provided.

1.1. Which of these is an absolute address?
    (A) A1   **(B)** A1$ **(C)** $A1   **(D)** A$1$

2. Collection of related web pages is called:
    (A) Folder   **(B)** Website   **(C)** Internet   **(D)** Extranet

3. The four numbers in an IP address are called:
    (A) Sub addresses   **(B)** Subsets   **(C)** Octets   **(D)** Octals

4. Softcopy refer to:
    (A) Screen output   **(B)** Peripheral devices   **(C)** OCR   **(D)** Software

5. What layer of OSI model does data compression?
    (A) Network   **(B)** Presentation   **(C)** Data link   **(D)** Physical

6. Microwave transmission, Coaxial cables, and fiber optics are examples of:
    (A) Modems   **(B)** Communication links   **(C)** Gateways   **(D)** Ring network

7. CBT stands for:
    (A) Computer based trade   **(B)** Computer basic training
    (C) Computer based training   **(D)** Certificate based training

8. Which interface consists of windows, menus, icons and pointers?
    (A) Event based   **(B)** graphical   **(C)** interrupt based   **(D)** Document based

9. Stack pointer register is used for:
    (A) FIFO   **(B)** LISP   **(C)** Holding Queue   **(D)** LIFO

10. Initial work on the internet was done in which operating system?
    (A) UNIX   **(B)** PHOENIX   **(C)** LINUX   **(D)** Bumble bee

11. The program that contains instructions to operate a device is called:
    (A) Device code   **(B)** Mach ware   **(C)** Device driver   **(D)** Device ware

12. Which registers are used in mathematical operations?
    (A) Generic purpose   **(B)** General purpose   **(C)** Arithmetic   **(D)** Arithmetic and logic

13. A virus that replicates itself is called:
    (A) Bug   **(B)** Worm   **(C)** Vaccine   **(D)** Bomb

14. An operating system is:
    (A) System utility   **(B)** Custom-built software   **(C)** System software   **(D)** Software package

15. Which of the following keyboard shortcut is used to change the case?
    (A) Ctrl+F3   **(B)** Shift+F3   **(C)** Alt+F3   **(D)** Ctrl+Shift+F3

Computer Science (Essay Type)

Time: 2:10 Hours   Marks: 60

Section -I

2. Write short answers of any six parts from the following.   2 x 6 =12

i. Define the term information technology(IT).

ii. What is the usage of MICR and OMR?

iii. Write any two advantages of digital camera.

iv. State the working of Laser printer.

v. What is workgroup computing?

vi. State the purpose of router.

vii. Compare asynchronous and synchronous transmission.

viii. Compare simplex and Half deplex mode.

ix. List out different elements of data communication.

3. Write short answers of any six parts from the following.   2 x 6 =12

i. How can be a computer useful in weather forecasting?

ii. Describe the use of computer in stock exchange.

iii. What are interrupts?

iv. Differentiate between RAM and ROM.

v. Define operand code and operand.

vi. Compare compiler and interpreter.

vii. Why does machine language program execute faster?

viii. What do you mean by plug and play?

ix. Why does a computer need an operating system?

4. Write short answers of any six parts from the following.   2 x 6 =12

i. How virus is activated?

ii. Define data security.

iii. What is privacy issue?

iv. Define "Word processing".

v. Differentiate between Header and footer.

vi. What is spreadsheet software?

vii. Write any two advantages of MS-Excel.

viii. What is the purpose of "IP addressing"?

ix. What is URL?

Section -II

Note: Answer any three questions from the following.   8x3=24

5. What is software?Explain different types of software.   08

6. Define computer network.Discuss different network models.   08

7. What is transmission mode?Explain its types.   08

8. What is language processor/translator?Describe its different types.   08

9. What is virus?Discuss its different types.   08

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