Evolution of Computers

1. Match the following.

Column –I	Column –II
(a) John Mauchly & J. Presper Eckert	(i) IBM Mark I Computer
(b)Howard H. Aiken	(ii) Incented the Difference Engine and Analytical
(c) Charles Babbage	(iii) Invented electro mechanical tabulator to help with the U.S. Census
(d) Herman Hollerith	(iv) Created the ENIAC

(a) (a)-(iv), (b)-(i), (c)-(ii), (d)-(iii)
(b) (a)-(ii), (b)-(iii), (c)-(i), (d)-(iv)
(c) (a)-(iii), (b)-(i), (c)-(ii), (d)-(iv)
(d) (a)-(iv), (b)-(ii), (c)-(iii), (d)-(i)

2. Which among the following is a mechanical analog computer that uses wheel and disc mechanisms to solve differential equations?
(a) ENIAC (b) Differential Analyser
(c) EDSAC (d) UNIVAC

3. Which of the following is NOT a feature of second generation computers?
(a) Transistors were used.
(b) Magnetic core memory was developed and used.
(c) Timesharing operating systems were used.
(d) Easier to program than first generation computers.

4. _____generation of computers used magnetic disks as backing store medium and introduced programming languages such as COBOL and BASIC.
(a) First (b) Second
(c) Third (d) None of these

5. Identify the following:
- It is larger than microcomputer.
- CDC-160A and Micro VAX 3100 are its examples.
(a) Supercomputer (b) Minicomputer
(c) Mobile PC (d) Desk Computer

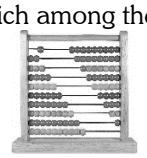
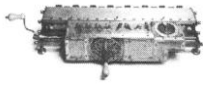
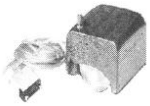
6. Intel 4004 was the _____ .
(a) First single chip microprocessor
(b) First multi-tasking operating system
(c) Portable micro-computer for general purpose
(d) One of the first generation device

7. A technology used to produce machines like Computer and robots that display intelligence quite similar to the intelligence shown by human beings is called _____.
(a) Biotechnology (b) Cross-over technology
(c) Simulation (d) Artificial Intelligence

8. A _____ is a multiuser computer system capable of supporting hundreds of users simultaneously.
(a) Tablet PC (b) Personal computer
(c) Mini Computer (d) Terminal

9. A marvel of technology, the _____are computers that perform complex scientific calculations speedily.
(a) Servers (b) Supercomputers
(c) Laptops (d) PDA

10. These are specially designed computer chips. They reside inside other devices. Examples of such devices can be your car's dashboard, washing machines and microwave ovens, or the electronic thermostat in air conditioners.
(a) Servers (b) Embedded system
(c) Robotic computers (d) Mainframes

11. Which among the following computing devices was built by Gottfried Wilhelm von Leibniz?
(a) 
(b)
(c) 
(d) 

12. Which of the following statements hold(s)
Statement 1: They required magnetic drums for memory.
Statement 2: The inner working of these computers was quite unsophisticated.
(a) Only Statement 1
(b) Only Statement 2
(c) Both Statement 1 and Statement 2
(d) Neither Statement 1 nor Statement 2

13. Which of the following is NOT an advantage of second generation computers over first generation computers?
(a) More reliable (b) More faster
(c) Generated less-heat (d) No need of AC

14. Second generations computers moved from cryptic binary machine language to symbolic _____ language.
(a) Assembly (b) High level
(c) Pascal (d) Basic

15. Which of the following was considered as hallmark of fourth generation computers?
(a) Transistor (b) Minicomputer
(c) Microprocessor (d) Robots

Achievers Section (HOTS)

16. First generation computers were replaced by second generation computers because
(a) Operating speed of first generation computers was higher than second generation computers
(b) Power consumption of first generation computers was higher than second generation computers
(c) ICs were used as the main component in first generation computers
(d) They were easily portable than second

17. Match the computer types given in

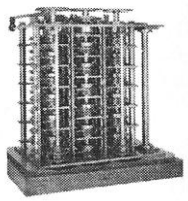
(a) Server	(i) Expensive computer that perform complex calculations extremely rapidly
(b)Super Computer	(ii) Provides resources to other computers connected to a network
(c)Embedded Computer	(iii) A Small mobile computing device.
(d) PDA	(iv) A self- contained device which performs pre-programmed functions.

(a) (a)-(i), (b)-(iii), (c)-(iv), (d)-(ii)
(b) (a)-(iii), (b)-(i),(c)-(ii), (d)-(iv)
(c) (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)
(d) (a)-(i), (b)-(iii),(c)-(ii), (d)-(iv)

18. Which of the following computers was developed by Tommy Flowers as the World's first programmable electronic digital computer?
(a) Colossus (b) Mark I
(c) UNIVAC-I (d) Z4

19. Which of the following statements hold(s) true about Apple Lisa Computer?
Statement 1: It was a personal computer with a GUI.
Statement 2: It featured drop-down menu and icons.
(a) Only Statement 1
(b) Only Statement 2
(c) Both Statement 1 and Statement 2
(d) Neither Statement 1 nor Statement 2

20. Identify the device given here and select the statement which is CORRECT about it.



(i) It was designed during third generation of computers.
(ii) It was designed to automatically calculate and tabulate polynomial functions.
(iii) It used magnetic disk as storage medium.
(a) Only (i) (b) Only (ii)
(c) Only (iii) (d) (i), (ii) and (iii)

HINTS & EXPLANATIONS

1. (a)

2. (b)

3. (c): Time sharing operating systems were introduced during third generation of computers.

4. (c)

5. (b)

6. (a)

7. (d) : Artificial intelligence is used to produce devices that perceives the environment and takes actions according to it. Thus, behaving intelligently as humans do.

8. (c)

9. (b) : Supercomputers are high speed computers whose performance is measured in FLOPS.

10. (b)

11. (c) : Stepped Reckoner was a digital mechanical calculator invented by Gottfried Wilhelm von Leibniz.

12. (b)

13. (d)

14. (a)

15. (c): Due to microprocessor, thousands of integrated circuits were built onto a single silicon chip.

16. (b)

17. (c)

18. (a) : It was the first large-scale electronic computer and was used against the German system of teleprinter.

19. (c) : Apple Lisa was the first computer to have drop-down menu, clickable buttons and menu like screen interface.

20. (b)