JAFFNA HINDU COLLEGE

First Term Exam - 2023

| Grade :- 10 | Information and Communication Technology | Time : 3.00 Hours |

Name / Index No : ....

PART I

Answer all the questions

01. Who invented the Analytical Engine?

    1) Joseph Jacquard   2) Blaise Pascal   3) Charles Babbage   4) Howard Aiken

02. What was the effect when vacuum tubes were replaced by transistors and later transistors were replaced by integrated circuits in the CPU?

    1) Both processing power and Electricity consumption increased.

    2) Processing power increased while electricity consumption decreased.

    3) Processing power decreased while electricity consumption increased

    4) Both processing power and electricity consumption decreased

03. In which form is data and instructions stored in a computer?

    1) Binary   2) Decimal   3) Hexadecimal   4) Octal

04. ……………………… is used in identifying and counting the number of animals in a large area.

    1) CCTV   2) RFID   3) Greenhouse   4) Robots

05. Which of the following is equivalent to the binary number 110010_2?

    1) 23_{10} 2) 52_{10} 3) 48_{10} 4) 50_{10}

06. Which of the following guided media is used in modern telephone network?

    1) Coaxial cable   2) Unshielded twisted pair

    3) Unshielded twisted pair   4) Fiber optics

07. Which of the following is nonvolatile memory?

    1) Flash drive   2) Register   3) Cache   4) RAM

08. Consider the following devices.

    A – Joystick

    B – Light pen

    C – Plotter

    Which of the above is/are pointing devices?

    1) A only   2) B only   3) A, B only   4) A, B, C all

09. Which of the following is approximately equivalent to one Terabyte (TB)?

    1) 1×10^6 MB   2) 1×10^6 GB   3) 1×10^6 KB   4) 1×10^6 bytes

10. Binary equivalent of 124_{10} is

    1) 001111_2 2) 1110110_2 3) 111100_2 4) 101010_2

11. Consider the following ports.

    These are respectively

    1) RJ 45port, Serial port   2) PS/2 port, VGA port

    3) RJ 45 port, Parallel port   4) RJ port, VGA port

12. Which input device is used to correct the MCQ answers?

    1) OCR   2) MICR   3) OMR   4) Scanner

13. Which of the following is not characteristics of quality information?

    1) Timeliness   2) Relevancy   3) Inaccuracy   4) Completeness

14. Which of the following is not G2G services?

    1) Sri Lanka Map   2) Tourist information

    3) Renewal of vehicle licenses   4) Sri Lanka custom information

15. ………………………….. machine can create digitalized images of internal organs of the body.

    1) CAT   2) ECG   3) MRI   4) EEG

16. Which of the following is the best solution to protect crops from natural disasters?

    1) Greenhouse   2) Drip irrigation

    3) Crop harvest   4) Meteorological devices

17. In ………………………… topology all the connections are established through a main cable.

    1) Star   2) Bus   3) Mesh   4) Ring

18. Which of the following example is used in Microwaves?

    1) TV remote controllers   2) Telephone network

    3) Wi-Fi   4) Satellite communication

19. Which of the following is an example for data processing?

    1) Calculating the account balance using banking software after a cash withdrawal

    2) Copying a file from a USB drive to a hard disk of a computer

    3) Installing sound editing software in personal computer

    4) Scanning a letter using a scanner

20. Consider the following statements

   A – Used for scientific and engineering function and to solve complex mathematical problems

   B – For an examiner to prepare an exam paper away from home

   C – Used in large scale business

   A, B, C respectively

   1) A: Mainframe computer   B: Personal computer   C: Super computer

   2) A: Super computer   B: Lap top computer   C: Mainframe computer

   3) A: Super computer   B: Microcomputer   C: Mini computer

   4) A: Mainframe computer   B: Microcomputer   C: Super computer

21. Which of the following technology is used in inkjet printer?

   1) Laser   2) Toner   3) Heat   4) Cartridge

22. Which of the following are true about the secondary memory of a computer system?

   A – Data is not erased even if the computer is switched off

   B – solid state devices can be used as secondary memory

   C – Secondary memory is the part of the CPU memory

   1) A and B only   2) A and C only   3) B and C only   4) All A, B and C

23. Which generation considered as birth of operating systems?

   1) 2nd generation   2) 3rd generation   3) 4th generation   4) 5th generation

24. Which is an example for simplex mode?

   1) Walkie Talkie   2) Telephone conversion   3) Watching TV   4) discussion

25. Which of the following is used in ATM to print the receipts?

   1) Thermal printer   2) Laser printer   3) Inkjet printer   4) Dot matrix printer

26. Which of the following is commonly used in architectural designs?

   1) Flatbed scanner   2) Plotter   3) Multimedia projector   4) Printer

27. Which of the following is not an example for scanner?

   1) ATM   2) Flatbed scanner   3) MICR   4) Touch screen

28. The CPU checks ………………………….. First to see whether the required data is available for processing

   1) RAM   2) Register   3) Cache   4) Secondary memory

29. Which of the following is an example for education website?

   1) www.moe.lk   2) www.edupub.gov.lk

   3) www.nenasala.lk   4) www.amazon.com

30. Which of the following characteristics is the fourth generation computers?

    1) Portable   2) high heat   3) consumes high electricity   4) High efficiency

31. Which of the following is the largest?

    1) 1001100_2 2) 1001010_2 3) 1010101_2 4) 1100000_2

32. Which of the following is correct during program execution in CPU?

    1) Instructions and data are brought from the main memory.

    2) Instructions are brought from the main memory and data are brought from the secondary memory

    3) Instructions are brought from the secondary memory and data are brought from the main memory

    4) Instructions and data are brought from the secondary storage.

33. The commands booting up instructions are stored in ………………….

    1) ROM   2) RAM   3) Register   4) Secondary memory

34. Which of the following is fastest data transmission medium?

    1) Coaxial cable   2) Fiber optics

    3) Shielded twisted pair   4) Unshielded twisted pair

35. Network Interface Card(NIC) is located on

    1) CPU   2) RAM   3) Mother board   4) Hard disk

36. Which device is acts as a data translator in computer network?

    1) Router   2) Wi-Fi   3) Telephone lines   4) Modem

37. Which of the following network is the combination of several Local Area Networks?

    1) LAN   2) WAN   3) PAN   4) MAN

38. Which one of the following is incorrect regarding Local Area Networks?

    1) Geographically distributed in a small area

    2) Generally owned by a single person or an organization

    3) Consist of many shared data communications media with various interfaces

    4) Generally consist of topologies: Bus, Star and Ring

39. Which of the following is used to control the data and instruction transmission between internet and computer network?

    1) Server   2) Firewall   3) Switch   4) Hub

40. Who is considered as the first programmer?

    1) Blaise Pascal   2) Charles Babbage   3) Lady Augusta   4) Howard Aiken