

# UMMUL-QURA HIGH SCHOOL

*AROWONA BUS-STOP, AKANRAN ROAD, IBADAN*

**2020/2021 THIRD TERM EXAMINATION**

**SUBJECT:** *Information and Communication Technologies (ICT)* **CLASS:** SS3

**INSTRUCTION:** *Answer all questions.*

**SECTION A(OBJECTIVE)    TIME:1 hr**

- 1.Characteristics of a good program include following except
  - A. accuracy
  - B. generality
  - C. inefficiency
  - D. maintenance
  - E. readability
- 2.Which of the following tasks does not require large computer memory ?
  - A. Animation
  - B. Graphics
  - C. Imaging
  - D. Typing
  - E. Video editing
- 3.Which of the following is NOT among the features of presentation package ?
  - A. Animation
  - B. Insertion of range and cell
  - C. Insertion of video and audio
  - D. Slide
- 4.Which of the following is a limitation of computerized files ?
  - A. Fast to access
  - B. Irregular power supply
  - C. More secured
  - D. Neatly modified
  - E. Reduces stress
- 5.If the function LEFT is used in the main program as  
LEFT("Education", 4) it returns
  - A. ion
  - B. tion
  - C. cation
  - D. ucation
  - E. ducation
6. 1 megabyte is equivalent to \_\_\_\_\_ kilobytes .
  - A. 1000
  - B. 1024
  - C. 1034
  - D. 1204
- 7.The transfer of information from internet to your computer is called
  - A. copying
  - B. documentation
  - C. downloading
  - D. retrieving
8. A set of wires used as a communication path is called
  - A. Accumulator
  - B. Adder
  - C. Bus
  - D. Control Unit
  - E. Register
- 9.What task does Basic Function ASC(x) perform in the main program ?
  - A. Returns square of number
  - B. Returns square root of number
  - C. Returns character equivalent of ascii codes
  - D. Returns ascii codes equivalent of a characters

10. Any document saved into a disc is referred to as a / an

- A. field
- B. file
- C. icon
- D. record

11. During program execution in the central processing unit, the instruction is interpreted by the

- A. arithmetic & logic unit
- B. control unit
- C. memory unit
- D. register unit

12. The most important system software in a computer is the

- A. control programs
- B. language translators
- C. operating system
- D. utility programs

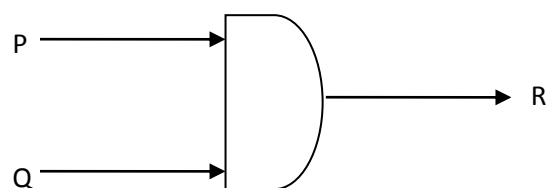
13. The basic computer operation involves the following **except**.

- A. Access
- B. Input
- C. Output
- D. Process

14. Random file organization is known as

- A. direct file organization
- B. indexed file organization
- C. serial file organization
- D. sequential file organization

**Fig 1 is a logic gate. Use it to answer question 15 – 17.**



15. The logic gate represented in fig.1 above is called

- A. OR gate
- B. AND gate
- C. NOR gate
- D. NAND gate

16. The output signal produced by the gate is HIGH when

- A.  $P = 1$  and  $Q = 1$
- B.  $P = 0$  and  $Q = 1$
- C.  $P = 1$  and  $Q = 0$
- D.  $P = 0$  and  $Q = 0$

17. The Boolean expression for the output of the gate is given as

- A. PQ
- B. QP
- C. QR
- D. PR

18. Which of the following is not a data gathering technique used in system investigation stage ?

- A. Interviews
- B. On –site observation
- C. Questionnaires
- D. Testing

19. The process of testing the logic of programs to ensure they give correct result is known as

- A. Algorithm
- B. Desk checking
- C. Flow charting
- D. Table checking

20. The process of correcting errors in the program being written using test data is called

- A. modification
- B. simulation
- C. debugging
- D. testing
- E. correction

21. The likely error that can be committed by the programmer while writing program is divided into
- two
  - three
  - four
  - five
22. The term used to refer to the Programming/program error is called
- mistakes
  - jargons
  - junks
  - bugs
  - virus
23. A site engineer intends to acquire a computer system . what factors will he consider if he must choose a notebook computer over a desktop computer ?
- Size, Cost and battery life
  - Cost , size and convenience
  - Size, convenience and battery life
  - Cost , convenience and battery life

**Use the logic truth table in fig. below to answer question 24.**

X	Y	Z
0	0	1
0	1	1
1	0	1
1	1	0

24. Given that X and Y are input variables while Z is the output. The truth table represents
- XOR gate
  - XNOR gate

- NOR gate
  - NAND gate
25. A logic gate contains three input Variables, the total combination of the input states is
- 3
  - 4
  - 8
  - 12
26. The following are guidelines for drawing flowcharts **except** that it
- must have a logical start and finish
  - should be clear, neat and easy to follow
  - should follow a direction of bottom to top
  - should follow a direction of left top to bottom.

**Use the information below to answer questions 27 – 28.**

As a computer professional, you have just been contracted by school to help them solve the problem they are facing in computing students' results. The school currently runs on manual system. Time and accuracy of the result are the major concerns.

27. What would you advice the school to do ?
- automate the system
  - close down the school
  - increase the number of staff
  - buy more calculators for the staff
28. If you are given the contract,

- what would be your first step of action ?
- analyze the results
  - design a software
  - investigate the problem
  - maintain the staff
29. One megabyte is equivalent to
- 1000 x 1024 bytes
  - 1024 x 1024 bytes
  - 1024 x 1048 bytes
  - 1000 x 1000 x 1000 bytes
30. The statement in QBasic that is used to add data at the end of existing sequential file is
- APPEND
  - CLOSE
  - INPUT
  - OUTPUT
31. Which of the following computer files can be used for updating the master file ?
- Data
  - Program
  - Reference
  - Transaction
32. By default in Microsoft word, your document prints in \_\_\_\_\_ mode .
- landscape
  - page setup
  - portrait
  - print view
33. If  $P = 1$  and  $Q = 1$ , find the value of  $\text{NOT}(P \text{ and } Q)$
- 0
  - 0 and 1
  - 1
  - 1 and 1
34. The distribution of video and audio content to a dispersed audience through electronic media is called
- Broadcasting
  - Communication
  - Information
  - Messages
35. Which of these characteristics of language is common to all computer programs ?
- it uses symbolic storage addresses
  - machine dependence
  - uses instructions that seem like English
  - uses special code
36. The \_\_\_\_\_ is added to a host computer hardware in order to expand its abilities
- input devices
  - monitors
  - peripheral devices
  - scanners
37. What is the function of control unit in the CPU ? it
- decodes program instructions
  - generates data from the field
  - performs logic functions
  - stores program instructions
38. The \_\_\_\_\_ system design duplicates files in event of disk failure .
- backup
  - CAD
  - JAD
  - redundancy
39. The characteristics of computer that allows the processing of input data to produce the desired output is its
- Accuracy
  - Automation

- C. Reliability  
D. Speed
40. In the DATA-FETCH – EXECUTE cycle, the \_\_\_\_\_ holds the program that is to be executed.  
A. accumulator  
B. instruction register  
C. memory data register  
D. program counter
41. The main functional parts of the central processing unit are  
A. ALU and CU  
B. BUS and ALU  
C. CMOS and BUS  
D. IC and CMOS
42. The form of change-over in which the old and the new system are allowed to run simultaneously for proper evaluation is called  
A. Overlap testing  
B. Parallel running  
C. Phase implementation  
D. System evaluation
43. Which of the following is not a web browser ?  
A. Apple safari  
B. Dream waver  
C. Google chrome  
D. Mozilla fire-fox
44. Which of the following control commands is used to highlight the entire document ?  
A. Ctrl + D  
B. Ctrl + A  
C. Ctrl + G  
D. Shift + Ctrl + A
45. Which of the following control commands is used to paste a copied text/object ?  
A. Ctrl + Z  
B. Ctrl + Y  
C. Ctrl + V  
D. Ctrl + Shift + V
46. Ctrl + Alt + Delete is used to  
A. restart the computer  
B. hibernate computer  
C. close the current document  
D. format a system
47. In handling computer files, which of these is not a file operation ?  
A. Copying  
B. Deleting  
C. Installing  
D. Creating
48. In computer programming, the command that carries out a group of instructions repeatedly until a set condition is reached is called  
A. Input  
B. Looping  
C. Redo  
D. Reloading
49. Programmers write programs in a form called \_\_\_\_\_ code.  
A. compiler  
B. machine  
C. object  
D. source
50. Which of the following is not a characteristic of a computer ?  
A. Accuracy  
B. Automation  
C. Intelligence  
D. Speed
- [50 marks]**

**SECTION B (THEORY) TIME: 1hr**

**Instruction : Answer all questions**

- 1a. List two operations that can be performed on computer files.
  - b. State three precautions to be taken in order to secure a computer files/ file security methods.
  - c. State three advantages of computerized files over manual files.
  - d. What is an antivirus ?
- 
- 2a. In developing computer program for either in-house or commercial use, state and explain the third stage/step a programmer must undergo ?
  - b. Write an algorithm to calculate simple interest(I)
  - c. Draw a corresponding flowchart for your algorithm .
- 
- 3a. What is a function ?
  - b. State any three examples of BASIC function and the uses of each in the main program.
  - c. Write a BASIC program that converts all alphabetic characters to upper case and display current date and time.
- 
- 4a. Briefly discuss the historical background of the internet
  - b. State and explain any four internet related terms.
  - c. Explain in detail any two of the following uses/benefits of internet:
    - i. E-commerce
    - ii. E-banking
    - iii. E-entertainment
    - i. Communication
    - ii. shopping

**[50 marks]**



