

INDIAN MARITIME UNIVERSITY
(A Central University, Government of India)

END SEMESTER EXAMINATION
MAY/JUNE 2022

Programme Name: B.Sc (Nautical Science)

Date – 22.06.2022

Semester: II

Subject Code: **UG21T5203**

Subject Title– **Computer Science**

Duration: 3Hrs

Max Marks :70

Pass Marks :35

Part –A

All questions are Compulsory MCQ 10 x 01 mark=10 marks

1. The octal equivalent of the binary number $(10\ 110\ 010\ 101)_2$ is
 - a) 4625
 - b) 2625
 - c) 0635
 - d) 1626
2. The number of characters that can be represented in 8 bit ASCII code are _
 - a) 255
 - b) 128
 - c) 127
 - d) 256
3. Which is the fastest memory among the following?
 - a) Registers
 - b) Cache
 - c) RAM
 - d) Virtual Memory
4. --- software is used when you need to create, edit and print document?
 - a) Spreadsheet
 - b) word processor
 - c) Desktop publishing
 - d) database
5. A company that manufactures cars may use the internet to purchase tyres from their suppliers. This is an example of --- transaction.
 - a) B2B
 - b) B2C
 - c) C2C
 - d) None of the above
6. A network of computer which operates world-wide using a common set of communications protocols.
 - a) Extranet

- b) Intranet
 - c) Internet
 - d) None of the above
7. -- tool is used to graphic representation of information and ideas the graphics range from list, process and complex graphics such as Venn diagrams and organization charts
- a. shapes
 - b. word art
 - c. smart art
 - d. None of the above
8. --- view gives miniature of each slide and allows you to easily rearrange your slides
- a) Outline view
 - b) Slide sorter
 - c) Slide show
 - d) None of the above
9. Which of the following is used to define a block of code in Python language?
- a) Indentation
 - b) Key
 - c) Brackets
 - d) None of the above
10. What will be the output of the following code
- ```

x = [1, 2, 3]
x[0] = 2
print(x)

```
- a) [0, 2, 3]
  - b) [1, 2, 3]
  - c) [2, 2, 3]
  - d) error

### **Part B**

**Answer all the questions**

**(05 X 02 Marks=10 marks)**

- 11. Convert  $(10110110)_2$  to equivalent decimal number
- 12. Explain assembly language and high-level language?
- 13. Explain digital cash
- 14. Explain the IF function in MS Excel with example
- 15. What is tuple? What is the difference between list and tuple?

### **Part C**

**Answer any 5 of the following 7 Questions (05 X 10 Marks=50 marks)**

- 16.

- a) Perform the subtraction of  $(10110101 - 1011100)_2$  using 2's complement method (3 marks)
- b) Perform binary division  $(1101011)_2$  by  $(111)_2$  (3 marks)
- c) Write short notes on Excess-3 BCD (XS3) and EBCDIC code (4 marks)
- 17.
- a) Explain RAM and its types (5 marks)
- b) Define system software Explain any two system software (5 marks)
- 18.
- a) What is EDI? What are the advantages of EDI? (5 marks)
- b) Define Ecommerce List out the benefits and limitations of e-commerce. (5 marks)
- 19.
- a) Explain the procedure to create table in ms word (5 marks)
- b) Explain with suitable example any 2 text functions in MS EXCEL (5 marks)
- 20.
- a) Explain the procedures of creating of charts in MS Excel with various chart options? (5 marks)
- b) Discuss slide master in PowerPoint (5 marks)
- 21.
- a) Explain the data types in python (5 marks)
- b) What is the output of the following code? Rewrite the code fragment using for loop (5 marks)
- 22.
- a) Explain file opening function "open()" with its syntax in detail. (5 marks)
- b) Write a python function to find sum of n natural numbers (5 marks)