Code No. : 10757 E   Sub. Code : ESCS 22

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2024.

Second Semester

Computer Science

Skill Enhancement Course — UNDERSTANDING INTERNET

(For those who joined in July 2023 onwards)

Time : Three hours   Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which of the following is not considered hardware ——————?

    (a) Operating system (b) CPU

    (c) Keyboard   (d) Hard disk

2. The brain of any computer is —————— unit

    (a) Input   (b) Output

    (c) Central processing (d) None

3. —————— : a computer program that translates an entire set of instructions written in a higher-level language into machine language

    (a) Interpreter   (b) Compiler

    (c) Assembler   (d) None

4. Which one of the following is web programming language?

    (a) C   (b) JavaScript

    (c) Pascal   (d) Basic

5. Which of the following is a benefit of digital transformation in business processes?

    (a) Increased reliance on manual tasks

    (b) Enhanced complexity in work flows

    (c) Improved efficiency and reduced operational costs

    (d) None

6. The rise of big data and data analytics, which are allowing businesses to make more informed decisions by leveraging —————— sets of data

    (a) Large   (b) Medium

    (c) Small   (d) None

7. A —————— can be a hardware device or a software program that filters all the packets of data that comes through a network, the internet, etc

    (a) Firewall   (b) Antivirus

    (c) Malware   (d) Cookies

8. Which of the following malware types does not clone or replicate itself through infection?

    (a) Viruses   (b) Worms

    (c) Trojans   (d) Root kids

9. Which of the below is an internet fraud in a which a consumer is digitally persuaded to reveal personal data by cyber criminals ——————

    (a) MiTM attack   (b) Phishing attack

    (c) Website attack   (d) DoS attack

10. Which software is mainly used to help users detect viruses and avoid them?

    (a) Malware   (b) Adware

    (c) Antivirus   (d) None

PART B — (5 × 5 = 25 marks)

Answer ALL the questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Differentiate : Man versus machine.

    Or

    (b) Define the term data. How it will be useful for computer processing?

12. (a) What do you mean by translator? Write down the working principle of compilers and interpreter.

    Or

    (b) In what way office automation software is useful for real world?

13. (a) Define and describe healthcare.

    Or

    (b) Write short note on banking and financial services industry.

14. (a) What is computer security? List out the different types of computer security.

    Or

    (b) Give a short note on AAA server.

15. (a) What do you mean by cyber crime?

Or

(b) Define the term hacking and phishing.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) With neat diagram, explain the basic structure of the computer.

Or

(b) Discuss in detail about classification of computers.

17. (a) List out object oriented programming languages and explain its features.

Or

(b) What are the different types of modern programming languages available? Describe its features.

18. (a) Articulate digital transformation in business and features of digital transformation.

Or

(b) Explain in detail about virtual reality wearable medical devices.

19. (a) Write short notes on the following

   (i) Ransomware

   (ii) Worms

   (iii) Trojan horse.

Or

(b) What do you mean by access control? Describe biometric access control.

20. (a) Define computer virus. Explain its types and give a note on Antivirus protection.

Or

(b) Illustrate attack using malware and ATM skimming.

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