Generated Question Paper

Question 1

• COMPUTER SCIENCE SUBJECTIVE PAPER

• SECTION - A (SHORT QUESTIONS)

• PART - 1 (6 QUESTIONS)
1. What is the difference between hardware and software? Explain with examples. (2 marks)
2. Define the term "algorithm" and give an example of a simple algorithm. (2 marks)
3. What is the purpose of a flowchart in problem-solving? Draw a simple flowchart to illustrate your answer. (2 marks)
4. Explain the concept of binary number system and convert the decimal number 25 to binary. (2 marks)
5. What is the difference between a paired tag and a singular tag in HTML? Give examples. (2 marks)
6. Define the term "cybercrime" and give two examples of types of cybercrime. (2 marks)

• PART - 2 (6 QUESTIONS)
1. What is the purpose of the control unit in a computer system? Explain with a diagram. (2 marks)
2. Define the term "data rate" and explain its importance in computer networks. (2 marks)
3. What is the difference between a protocol and a standard? Give examples. (2 marks)
4. Explain the concept of encryption and decryption. Give an example of a simple encryption technique. (2 marks)
5. What is the purpose of the "alt" attribute in HTML? Give an example of its use. (2 marks)
6. Define the term "network topology" and give two examples of different topologies. (2 marks)

• PART - 3 (6 QUESTIONS)
1. What is the difference between a client and a server in a computer network? Explain with a diagram. (2 marks)
2. Define the term "database" and explain its importance in computer systems. (2 marks)
3. What is the purpose of the "CSS" in web development? Give an example of its use. (2 marks)
4. Explain the concept of "cloud computing" and give two examples of cloud computing services. (2 marks)
5. What is the difference between a "plug and play" device and a non-"plug and play" device? Explain with examples. (2 marks)
6. Define the term "operating system" and give two examples of different operating systems. (2 marks)

• SECTION - B (LONG QUESTIONS)

• PART - 1 (16 MARKS)
1. Explain the concept of problem-solving using algorithms. Give an example of a simple algorithm and explain how it works. (8 marks)
2. Describe the different types of computer networks and explain their importance in modern computing. (8 marks)

• PART - 2 (16 MARKS)
1. Explain the concept of data security and give two examples of data security threats. Describe how these threats can be mitigated. (8 marks)
2. Describe the different types of web development technologies and explain their importance in modern web development. (8 marks)

• PART - 3 (16 MARKS)

1. Explain the concept of artificial intelligence and give two examples of AI applications. Describe how AI is different from traditional computing. (8 marks)
2. Describe the different types of computer systems and explain their importance in modern computing. Give examples of different types of computer systems. (8 marks)