

## SECTION A (COMPULSORY) -30 marks

### QUESTION ONE (1 MARK EACH)

1. **Equality = FAIRNESS, while Equity = SAMENESS.** (True or False)?
  - A. True
  - B. False
  
2. Which one of the following is **NOT** a major ethical/legal issue in IT?
  - A. Pornography
  - B. Privacy
  - C. Intellectual property rights
  - D. Firewalls
  
3. Which of the following is **NOT** a networking device?
  - A. Switch
  - B. Hub
  - C. Server
  - D. Linear Bus
  
4. In 1976 Apple computers was started and it rolled out Apple 1. Who were the founders of Apple computers?
  - A. Bill Gates and Paul Allen
  - B. Steve Jobs and Steve Wozniak
  - C. John Mauchly and J. Presper Eckert
  - D. Herman Hollerith and Allan Turing
  
5. The Internet is the worldwide, publicly accessible network of interconnected computer networks that transmit data by packet switching using the standard Internet Protocol (IP). (True or false)?
  - A. True

C. Numri

D. Pascal

25. Which was the first search engine created in 1990?

A. Archie

B. Google

C. Yahoo

D. Ask

26. \_\_\_\_\_ is a measure of the loss resulting from a mishap.

A. Hazard severity

B. Damage

C. Accident

D. Risk

27. Which of the following statements is **FALSE**?

A. Safety is a property of a system that reflects the system's ability to operate, normally or abnormally, without danger of causing human injury or death and without damage to the system's environment.

B. Reliability is concerned with conformance to a given specification and delivery of service

C. **Security** means protection against attacks while **Safety** means freedom from unacceptable risk/harm

D. Reliable systems cannot be unsafe

28. Which of the following is **NOT** a Personal Computer?

A. a laptop computer

B. Personal Digital Assistant

C. a mainframe computer

D. a desktop computer

29. Which of the following is **NOT** a social category impacted by technology?

- A. Social and political institutions
- B. Social sector
- C. Socio-demographic groups
- D. Social Networks

A

30. Which of the following statements is **FALSE**?

- A. Pharming - Hackers lead users to bogus websites even if they've typed in their correct, intended U R Ls.
- B. BOTNET a collection of compromised computers connected to the Internet. Termed "bots," they are generally used for malicious purposes.
- C. There is limited awareness of computer security among home as well as business users. Inadequately protected computers can be easy targets for unauthorized users.
- D. Information warfare involves small-scale attacks on computers, websites, and networks. Jamming or hijacking a satellite or phone network

**SECTION B (ANSWER ANY TWO) -40 marks**

**QUESTION TWO (20 marks)**

1. Discuss and describe the various possible ways in which <sup>edu</sup> governments, institutions, <sup>co</sup> software developers and <sup>1504</sup> technology vendors and experts can bridge the digital divide within nations and globally. (10 marks)
2. What are the technological advancements both in hardware and software from the first generation electronic computers to the era of personal computers? (10 marks)

**QUESTION THREE (20 marks)**

1. What are the various ways that a disabled person benefit from computer technologies?  
... (5 marks)
2. Give a real life example of a safety critical system and how they are used and what kind of danger they would pose to the environment or humans if they fail to work. (5 marks)
3. Explain the terms mentioned below (10 marks)
  - i. Intellectual property rights
  - ii. Privacy
  - iii. Patents
  - iv. Copyrights
  - v. Trademarks

**QUESTION FOUR (20 marks)**

1. What is hacking? Describe the three types of hackers (8 marks)
2. What is a malware? Describe the various types malware (10 marks)
3. What is Cyberstalking? (2 marks)

**QUESTION FIVE (20 marks)**

1. What is Professional ethics? (2 marks)
2. What is censorship? Is censorship good or bad for a nation/society? Can a country have both free speech and censorship? Should there be a limit to free speech and/or censorship? Explain (10 marks)
3. Explain **Piracy** as a cyber-crime (4 marks)
4. Describe
  - i. A firewall (2 marks)
  - ii. Phishing (2 marks)