GOVERNMENT POLYTECHNIC, NAYAGARH

SUB   :-   INTRODUCTION TO IT SYSTEMS

PREPARED BY :- SIBA PRASAD YADAV

🌐 **Unit 1: Internet Skills and Computer Basics**

📝 **2-Mark Questions**

1. 🌍 What is Internet? Name two common applications.

2. 💻 List four applications of the Internet.

3. 🌐 Define [WWW](WWW).

4. 🔗 Define URL and TCP/IP.

5. 📊 What are the uses of a modem?

6. 🌍 List four commonly used web browsers.

7. 🌐 What is a web browser?

8. 🔍 Define a search engine. Give two examples.

9. IN What is Digital India?

10. 🧠 Define CPU.

11. ⌨️ Name two input and output devices.

12. 💾 Compare SSD and HDD.

13. 🖨️ Name two impact and non-impact printers.

14. 🔢 Define ALU.

15. 📧 What is Email? Name two providers.

16. 🧩 Compare EPROM and EEPROM.

17. 🔍 Classify types of web search queries.

18. 🧠 Compare Primary and Secondary Memory.

📚 **5-Mark Questions**

1. 🌐 Explain features of a web browser.

2. 🔍 How does a search engine work?

3. 🧠 Explain types of computer memory.

4. 💻 Explain computer system components with block diagram.

5. IN What is Digital India? Describe its key vision areas.

6. 🧠 Distinguish between RAM and ROM.

7. 💾 Distinguish between SSD and HDD.

💾 **Unit 2: Operating Systems & Shell**

📝 **2-Mark Questions**

1. 🖥️ Mention two major UNIX shells with prompt symbols.

2. 🔢 Write two shell commands with syntax.

3. 📁 Explain the 'cd' command.

4. 🗑️ Write procedure to remove a directory.

5. 📄 Distinguish between cat and touch.

6. 🔢 Count characters and words in a file (UNIX).

7. 🖥️ List four popular operating systems.

8. 🎛️ Justify: "Computing nowadays is mobile computing."

9. 🔌 Procedure to create bootable media.

10. 🧠 Purpose of an Operating System.

11. 🔧 Define Kernel.

12. 👨‍💻 Define Shell.

13. 🖥️ Write four examples of Shells.

14. ✅ List advantages of Operating Systems.

📚 **5-Mark Questions**

1. 🧠 Features of Unix/Linux shell.

2. 📂 Create & delete a directory structure (with commands).

3. 📝 Notes on cat command.

4. 🔄 Explain two modes in vi editor.

5. 🖥️ Differences: Linux vs Windows OS.

6. 🔧 Explain UNIX architecture with diagram.

7. 🖥️ Procedure to install Ubuntu OS.

🌐 **Unit 3: HTML & CSS**

📝 **2-Mark Questions**

1. 🌐 What is HTML and its purpose?

2. 🔗 How to create a hyperlink in HTML?

3. 🎨 What is CSS and why use it?

4. 🖌️ CSS to color & center-align <h1> tag.

5. 🆔 Difference between ID and class.

6. 📒 Difference: inline, internal, and external CSS.

7. 🔤 List two text formatting tags in HTML.

8. 🖼️ Which tag is used to add an image?

9. 🧠 Purpose of the <head> section?

10. 🎨 What does color: red; do?

11. 📄 Why use external CSS?

12. 🔗 HTML code for hyperlink (Click Here).

13. 🧠 Purpose of the <title> tag?

14. 🔢 Difference: <ol> vs <ul>.

15. 🖼️ Function of alt in <img> tag?

16. ⬛ Purpose of margin in CSS?

17. ⬇️ What is <br> tag used for?

18. 🦶 What is <footer> tag?

19. 📝 How to comment in HTML?

20. 🔗 How to link external CSS file.

21. 🎨 Example of inline CSS.

22. 📝 How to comment in CSS (example).

23. 📄 CSS to right-align text.

24. ⚖️ Which is more efficient: HTML or CSS?

25. ✍️ Create an HTML snippet: "My Hobby"

26. 🔗 What is a hyperlink?

📚 5-Mark Questions

1. 🧱 Structure of an HTML document.

2. 🎨 What is CSS? Types & usage.

3. 🧠 Importance of HTML in web development.

4. 💾 Structure of <table> in HTML.

5. 📋 Use of <ul>, <ol>, and <li>.

6. 📄 Use of <form> and form elements.

7. 📌 What are HTML attributes? Examples.

🛠️ Unit 4: OpenOffice Tools

📝 2-Mark Questions

1. 📄 How to open a document in OpenOffice Writer?

2. 🧭 Four ways to start a new document.

3. 🖨️ Two methods to print in Writer.

4. 🔧 Name 10 formatting toolbar buttons.

5. ✅ What is AutoCorrect?

6. 📊 Features of OpenOffice Calc.

7. ⚙️ Steps to use AutoCorrect.

8. 📋 Parts of Calc interface.

9. 📌 Steps to freeze/unfreeze rows/columns.

10. 🛠️ What is OpenOffice Tool?

11. 📝 Define OpenOffice Writer.

12. 🔎 What is AOO?

13. 📈 Steps to create a chart in Calc.

14. 🖼️ Ways to insert slide in Impress.

15. 🖨️ Options for printing presentations.

📚 5-Mark Questions

1. 💼 Features of OpenOffice.

2. 🔽 How to download & install OpenOffice.

3. 🖥️ Parts of OpenOffice Writer interface.

4. 🔍 Steps to use Find & Replace.

5. 📊 Describe Impress interface (Slides pane, Task pane, Workspace).

🔒 UNIT – 5: INFORMATION SECURITY BEST PRACTICES

📝 2-Mark Questions

1. 🔢 What is the difference between Data and Information?

2. 🛡️ What do you mean by Information Security?

3. 🦠 Define Virus. How is it different from Worms?

4. 🧬 What is a Trojan horse? How does it differ from a Virus?

5. 🔓 What is Hacking? What are its types?

6. ⚠️ Define Cyber Crime. List two common examples.

7. 🖥️ What is Phishing? How is it harmful?

8. 🔍 What are Spyware and Adware?

9. 📉 What is Malware? How does it affect computer systems?

10. 🔐 What is a Firewall? What is its use?

11. 🧠 Differentiate between Antivirus and Antispyware.

12. 📊 List any four threats to computer security.

13. 🌐 Define Cyber Ethics. Why is it important?

14. 🚨 What is Cyber Law? Mention one cyber law in India.

15. 🛡️ List out any four best practices for Information Security.

📚 5-Mark Questions

1. 🛡️ Explain the key principles of Information Security.
   (Confidentiality, Integrity, Availability – also known as the CIA Triad)

2. 🦠 Describe different types of malware with examples.
   (Include: Virus, Worm, Trojan horse, Ransomware, Spyware)

3. 🚨 What is Cyber Crime? Discuss its major categories and examples.
   (Hacking, Identity Theft, Financial Fraud, Cyberbullying)

4. 🔓 What is Phishing? How can users protect themselves against phishing attacks?

5. 🔧 What are Firewalls and how do they work? Describe types of firewalls.
   (Hardware Firewall, Software Firewall, Packet Filtering, Proxy)

6. 🧠 List and explain five best practices for ensuring Information Security.
   (e.g., Strong passwords, Regular updates, Backup, Antivirus, Safe browsing)

7. ⚖️ What is Cyber Law? Explain any two important laws related to cyber security in India.
   (IT Act 2000, Section 66A, etc.)

8. 📉 Discuss the difference between Antivirus, Firewall, and Antispyware software.

9. 💻 Describe five common cyber threats and their impact on systems.

10. 🌐 Explain the importance of Cyber Ethics and how it affects online behavior.