

**PAPER – XXXII – ELECTIVE – III – WAP & XML**

**UNIT – I**

Overview of WAP:WAP and the wireless World – WAP Application Architecture – WAP Internal Structure – WAP Versus the Web – Setting up WAP: Available Software products – WAP resources – The Development Tool Kits.

**UNIT – II**

WAP gateways : Definition – Functionality of a WAP gateway – The Web model Versus the WAP Model – Positioning of a WAP gateway in the Network – Selecting a WAP Gateway – BASIC WML : EXtensible Markup Language – WML structure – A Basic WML Card – Text formatting – Navigation – Advanced Display Features.

**UNIT – III**

Interacting with the user : Making a selection – Events Variables – Input parameter passing – WML script – Need for WML script – lexical structure – Variably & literals – Operators – Automatic data type conversion – Control Constructs – Functions – Using the standard Libraries – Programs – Dealing with errors.

**UNIT – IV**

XML: Introduction XML : An Eagle's Eye view of XML – XML Definition – Life of an XML Document – Related Technologies – An Introduction to XML Applications – XML Applications – XML for XML – First XML Documents Structuring Data : Examining the Data XMLizing the Data – The advantages of the XML format – Preparing a style sheet for Document Display.

**UNIT – V**

Attributes, Empty Tags and XSL: Attributes – Attributes Versus Elements – Empty Tags – XSL – Well formed XML Documents – Foreign Languages and Non- Roman Text : - Non Roman Scripts on the Web – Scripts, Character sets, Fonts and Glyphs – Legacy Character sets – The Unicode Character set – Procedure to Write XML in Unicode.

**Text Books:**

1. For Unit – I, II & III : Charles Arehart and Others, “Professional WAP with WML, WML, WML script, ASP, JSP, XML, XSLT, WTA, Push and Voice XML” Shroff Publishers and Distributors Pvt. Ltd.2000.
2. For Unit – IV & V : Elliotte Rusty Harold, “XML TM Bible”, IDG Boobs India (P) Ltd., 2000.