

PH-CS-OE-01 Applications of Information Technology in Research

Credits	L/T	Total	Theory	Int	Ext	Total
	2/1	3		25	50	75

Note:- Total 09 Questions are to be set by the examiner. First question will be compulsory consisting of 5 short (each 2 marks) questions covering entire syllabus uniformly. In addition eight more questions will be set two questions per unit carrying 10 marks from the given syllabus. A candidate is required to attempt five questions in all selecting one question from each unit including the compulsory question.

Unit-I

Types of Software: Application Software, System Software, Translators, System Utilities. Types of Languages: Machine Language, Assembly Language, High-Level Language -their Features, Advantages and Disadvantages.
Operating System: Definition, need, Operating System services, functions of operating system.

Unit-II

E-Governance: Needs of E-Governance, Evolution of E-Governance and its scope, Issues and Challenges in E-Governance applications.
E-Banking: Traditional Banking vs E-Banking, E-Banking transactions, Online Banking advantages and Limitations.
E-commerce: Introduction, History of E-Commerce, Advantages and Disadvantages of E-Commerce, Road map of E-Commerce in India
E-learning: Introduction to e-learning, Evolution of E-Learning, Issues and Challenges in E-learning.

Unit-III

Introduction to the Functionality of Web Browsers: Internet Explorer, Netscape Navigator Concept of WWW, surfing through web sites. Web Browsing (opening, viewing, saving a web page and book mark). Searching and downloading of different sites and software.

Unit-IV

Introduction to Social Media: Twitter, Facebook, YouTube, Whatsapp, LinkedIn. their advantages/disadvantages and issues.
Introduction to E-commerce, its history, advantages, challenges, payment issues, legal issues.

References:

1. V. Rajaraman, "Fundamentals of Computers", PHI.
2. Sanders. D.H., "Computers Today", McGraw Hill Publications.
3. R.K. Taxali: "Introduction to Software Packages", Galgotia Publications.
4. Powell, "HTML, Tata McGraw-Hill, ISBN : 0074633325
5. Khurana, R., "HTML", APH Publishing
6. E-Governance: Concepts and Case Studies, C.S.R. Prabhu, Prentice-Hall of India Private Limited
7. C.S. Rayudu, E-Business, Himalaya Publishing House
8. Bhushan Dewan, E-Commerce.

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