

SYLLABUS FOR NATIONAL INFORMATION TECHNOLOGY WHIZKIDS COMPETITION 2016

1. Historical Development of Computer: Early calculating aids, modern computers, notable scientists and important dates
2. Classification of Computers by Generations: 1st Generation, 2nd Generation, 3rd Generation, 4th Generation and 5th Generation
3. The basic computer concepts of computers. Operations performed by the computer
4. Types of computer: Digital, Analog and Hybrid
5. Types of memory and storage
6. Classification of modern computers: In terms of size, type of data processed, processing power and purpose
7. General characteristics of modern computers
8. Hardware and its components on the computer system. Computing devices and computer peripherals (examples and their uses)
9. Software and its components on the computer system: Definition and types (examples and their uses)
10. Operating System (OS): Introduction, types and classifications
11. Booting process
12. Computer Ethics
13. Computer attacks and crime. Hackers, Cyber Gangs, Crackers, Virus Authors, Spies. Types of cyber attacks
14. Computer Networks: Definition, types and concepts
15. Database Concept: the meaning of data, information, Table, field, and record
16. Data representations
17. Computer laboratory management: organization, preventive measures and best practices
18. Computer Virus: Definition, types, and detection
19. The Internet: meaning, history, main aim and uses (relating to business and social activities) Computer and the society: Application of computer technology (as it affects MIS and Decision Support Systems), different fields in which computer is used, advantages and disadvantages of computer
20. Internet: Uses, protocols, resources and applications
21. Introduction to programming languages. Types and classifications of programming languages. Introduction to C programming language
22. Introduction to Web Development (html, CSS, php, javascript)