

Introduction of Online IA Preparation Program by aThink.in **(AThink.in द्वारा ऑनलाइन सूचना सहायक प्रशिक्षण कार्यक्रम का परिचय)**

Introduction of Vacancy: - It is vacancy of Department of IT & Communication (DOIT&C), Government of Rajasthan. Exam will be conducted by Rajasthan Subordinate Board. There are about 1300+ vacancies for advertisement.

अधिसूचना का परिचय :- यह आईटी और संचार विभाग, राजस्थान सरकार की अधिसूचना है ! राजस्थान अधीनस्थ बोर्ड द्वारा परीक्षा का आयोजन किया जायेगा ! विज्ञापन के लिए लगभग 1300 पद है !

पाठ्यक्रम (Syllabus) :-

- Algorithm and flowchart.
- 'C' Programming :- C Tokens, variable, Data type, Operators & Expression, type casting, Decision making and Branching, Control Structure (For, while, do while loop), Arrays, Functions, Pointers, Structure & Union.
- Introduction of Object Oriented Programming (OOPs) Concepts:- Class, Object, Inheritance, Abstraction, Encapsulation, polymorphism, Exception Handling.
- Introduction of C++.
- Introduction of internet technology, Protocols, Internet Topologies, LAN, WAN, MAN, World wide web, web browser, client server architecture, Basic Internet Terminologies, Cyber crime, Packet Switching Technologies, Routers, Internet Addressing Scheme, E Mail Address, Structure of URL, Firewall, Services of Internet, Advantage of Internet, Limitation of Internet.
- Introduction of DBMS :- Feature of DBMS, DBMS vs Files, Schema and instance, view of Data, DBMS Language, Database users, database administrator, Data Independence, Introduction of RDBMS.
- E-Commerce Intro, properties.
- Data Processing: - File organization, Types of file organization, Sorting, Merging.
- Operating System: - Definition of OS, Properties, services, Types.
- Objective of word processing, Software of word processing.
- MS Office: - MS Word, MS Excel, MS Power Point.
- Computer Security :- Security problem and requirements, assets, threats, impacts, threats and vulnerabilities, User Authentication, security system and facilities, firewall, Proxy, Encryption, Cryptography, computer security classification, Hardening network activities (viruses, worms, Trojan horses, logic bombs, bacteria, fault tolerance, backup and UPS).
- Number System :- Binary numbers, Octal Numbers, Decimal Numbers, Hexadecimal numbers, Conversion, Binary Arithmetic :- 1's and 2's complements, Addition, Subtraction, multiplication, division, Codes(BCD, Gray code, EBCDIC, ASCII, Unicode).
- Web hosting, Web Site Maintenance.

- HTML Interactive Tools, All HTML Tags.
- Introduction of computer fundamental, Definition, data, information, program, advantage, limitation, Generation, Anatomy of computers, Computer devices :- Input devices (mouse, trackball, joystick, joystick, light pen, touch pad, digital camera, scanner, microphone, OMR, MICR, BCR) Output Devices (monitor [CRT, LCD], Printers, Plotters, Memory :- Types of memory, primary memory(RAM, ROM, PROM, EPROM, EEPROM, Secondary Memory (Floppy Disk, Hard disk, CD-ROM, DVD, Flash Drive), Cache Memory.
- Classification of computers, hardware vs software
- Analog, digital, hybrid computers, person computers, Utility programs, application programs, general purpose programs, translator.

Method of aThink.in for Preparation of IA, 2017

On Behalf of Syllabus the whole program is divided into 45 sessions, each session contains:-

1. The Theory Lectures.
2. Current lecture's short videos by our experts.
3. Question regarding the current session.
4. Test Series (10 Exam on pattern of IA 2011 & 2013) after the twenty session for Paid Students.
5. Old Papers of Previous IA Exams.

सूचना सहायक की तैयारी के लिए ahink.in की विधि पाठ्यक्रम के आधार पर पूरे कार्यक्रम को 45 सत्रों में बांटा गया है, प्रत्येक सत्र में शामिल हैं: -

1. सिद्धांत व्याख्यान (Theory Lectures)
2. हमारे विशेषज्ञों द्वारा वर्तमान व्याख्यान के छोटे वीडियो।
3. वर्तमान सत्र के बारे में प्रश्न।
4. टेस्ट सीरीज (20 सत्र के बाद सूचना सहायक 2013 एव 2011 के पैटर्न के आधार पर पेपर्स) केवल पेड स्टूडेंट्स के लिए ।
5. ओल्ड पेपर्स ।
- 6 ऑनलाइन क्लास में आने वाली प्रोब्लेम्स के समाधान के लिए ८ दिन या १५ दिन में एक बार एक्सपर्ट टीचर्स के द्वारा ऑफलाइन क्लासेज।

There are about 45 Sessions, which are as follow:-

इसमें लगभग 45 सत्र हैं, जो निम्नानुसार हैं: -

S.No.	Session	Content
1	Session 1 (Intro of Computer fundamental)	Introduction of computer fundamental, Definition, data, information, program, advantage, limitation, Generation, Anatomy of computers.
2	Session 2 (Computer Devices)	Computer devices :- Input devices (mouse, trackball, joystick, joystick, light pen, touch pad, digital camera, scanner, microphone, OMR, MICR, BCR) Output Devices (monitor [CRT, LCD], Printers, Plotters.
3	Session 3 (Memory)	Memory: - Types of memory, primary memory (RAM, ROM, PROM, EPROM, EEPROM, Secondary Memory (Floppy Disk, Hard disk, CD-ROM, DVD, Flash Drive), Cache Memory.
4	Session 4 (Classification of computer & different type of Software)	•Classification of computers, hardware vs software. Analog, digital, hybrid computers, person computers, Utility programs, application programs, general purpose programs, translator.
5	Session 5	Test of Computer Fundamental
6	Session 6 (Algorithm)	Algorithm for problem solving
7	Session 7 (Flowchart)	Flowchart for problem solving
8	Session 8 (C program, token, data type)	Introduction to C language, C Tokens, variable, Data type, Operators & Expression, type casting.
9	Session 9 (Conditions & Looping)	Decision making and Branching:- if conditions, switch Case, Control Structure:- For, while, do while loop.
10	Session 10 (Array & Functions)	Arrays :- 1D, 2D, 3D array, Functions:- Built In Function, User Defined function.
11	Session 11 (Pointer, Structures)	Pointers, Structure & Union.
12	Session 12 (OOPs)	Introduction of Object Oriented Programming (OOPs) Concepts:- class, Object, Inheritance, Abstraction, Encapsulation, polymorphism, Exception Handling,
13	Session 13 (Difference Between OOPs and POP)	Difference Between Procedure Oriented Programming (POP) & Object Oriented Programming (OOP), IDEs and its advantage.
14	Session 14	Test for programming
15	Session 15 (Web Hosting)	Web hosting, Web Site Maintenance.
16	Session 16 (HTML)	HTML Interactive Tools, All HTML Tags.
17	Session 17 (Intro of internet)	Introduction of internet technology, Introduction of internet protocols
18	Session 18 (Models)	Networking Models
19	Session 19 (Networking Types, Architecture)	Internet Topologies, LAN, WAN, MAN, World wide web , web browser, client server architecture
20	Session 20 (Internet Terminologies)	Basic Internet Terminologies.

21	Session 21 (Internet Addressing, Scheme, URL)	Cyber crime, Packet Switching Technologies, Routers, Internet Addressing Scheme, E Mail Address, Structure of URL.
22	Session 22 (Advantage & Limitation of internet)	Firewall, Services of Internet, Advantage of Internet, Limitation of Internet.
23	Session 23	Internet other Services :- Internet Phone, internet video, Multicast Backbone, videoconferencing, Multimedia, Graphics Types.
24	Session 24	Test of Computer Network
25	Session 25 (DBMS)	Introduction of DBMS :- Feature of DBMS, DBMS vs Files, Schema and instance, view of Data, Database users, database administrator, Data Independence,
26	Session 26 (SQL)	DBMS Language (SQL), Introduction of RDBMS.
27	Session 27 (Intro of Number System)	Introduction to Number System, Binary numbers, Octal Numbers, Decimal Numbers, Hexadecimal numbers, Binary to decimal, decimal to binary, Octal to binary, Binary to Octal, Octal to decimal.
28	Session 28 (Conversion 1)	Conversion :- Binary to decimal, decimal to binary, Octal to binary, Binary to Octal, Octal to decimal, Decimal to octal.
29	Session 29 (Conversion 2)	Conversion :- Hexadecimal to binary, binary to hexadecimal, hexadecimal to decimal, decimal to hexadecimal, octal to hexadecimal, hexadecimal to octal.
30	Session 30 (Binary Arithmeti)	Binary Arithmetic :- 1's and 2's complements, Addition, Subtraction, multiplication, division, Codes(BCD, Gray code, EBCDIC, ASCII, Unicode).
31	Session 31	Test of Database & Number System
32	Session 32	Computer Security :- Security problem and requirements, assets, threats, impacts, threats and vulnerabilities, User Authentication, security system and facilities,
33	Session 32 (Computer Security Pt-1)	Computer Security :- firewall, Proxy, Encryption, Cryptography, computer security classification, Hardening network activities (viruses, worms, Trojan horses, logic bombs, bacteria, fault tolerance, backup and UPS.
34	Session 34 (Computer Security Pt-2)	Objective of word processing, Software of word processing, Introduction of MS Office.
35	Session 35 (MS Word Pt-1)	MS Word :- Screen layouts, Working with documents, Word options
36	Session 36 (MS Word Pt-2)	MS Word :- Editing options Formatting the text, Macros, mail merge.
37	Session 37 (MS Excel Pt-1)	MS Excel :- Workbook, worksheet, cell, row, column, auto fill
38	Session 38 (MS Excel Pt-2)	MS Excel :- , working with row and column, functions, charts.

39	Session 39 (MS Power Point Pt-1)	MS Power Point :- Slide, create a presentation, text images and media
40	Session 40 (MS Power Point Pt-2)	MS Power Point :- animations, theme, design notes.
41	Session 41	Test of MS Office
42	Session 42 (Data Processing)	Data Processing :- File organization, Types of file organization, Sorting, Merging.
43	Session 43 (E-Commerce)	E-Commerce Intro, properties.
44	Session 44 (Operating System)	Operating System :- Definition of OS, Properties, services, Types.
45	Session 45	Test for Complete Course

