

# National Testing Agency

**Question Paper Name:** Information Storage and Retrieval  
**Subject Name:** Information Storage and Retrieval  
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## Information Storage and Retrieval

**Group Number :** 1  
**Group Id :** 41652948  
**Group Maximum Duration :** 0  
**Group Minimum Duration :** 120  
**Revisit allowed for view? :** No  
**Revisit allowed for edit? :** No  
**Break time:** 0  
**Group Marks:** 50

## Information Storage and Retrieval

**Section Id :** 41652948  
**Section Number :** 1  
**Section type :** Online  
**Mandatory or Optional:** Mandatory  
**Number of Questions:** 50  
**Number of Questions to be attempted:** 50  
**Section Marks:** 50  
**Display Number Panel:** Yes  
**Group All Questions:** No

**Sub-Section Number:** 1  
**Sub-Section Id:** 41652949  
**Question Shuffling Allowed :** Yes

**Question Number : 1 Question Id : 4165293926 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

ISO 23950 stands for:

- a. SRU
- b. SRW
- c. CQL
- d. Z39.50

**Question Number : 2 Question Id : 4165293927 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

ANSI stands for:

- a. American National Standard Institute
- b. American National Society of Information
- c. Australian National Society of Information
- d. Australian National Standard Institute

**Question Number : 3 Question Id : 4165293928 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following is not an expert system of cataloguing:

- a. QUALCAT
- b. MAPPER
- c. AUTOCAT
- d. SCISOR

**Question Number : 4 Question Id : 4165293929 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following is/are not a network protocol:

- a. Z39.50
- b. SRU
- c. Both (a) and (b)
- d. Neither (a) nor (b)

**Question Number : 5 Question Id : 4165293930 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The prime difference between SRU and SRW is that the former uses..... as the transport mechanism and the latter is based on ..... protocol and uses XML streams for both the query and the results.

- a. SOAP, HTTP
- b. HTTP, SOAP
- c. SMTP, HTTP
- d. SOAP, SMTP

**Question Number : 6 Question Id : 4165293931 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Fuzzy logic is usually represented as

- a. IF-THEN-ELSE rules
- b. IF-THEN rules
- c. Both IF-THEN-ELSE rules & IF-THEN rules
- d. None of the mentioned

**Question Number : 7 Question Id : 4165293932 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

RoboVerdict software is used for:

- a. Stemming
- b. Lemmatization
- c. Semantic Analysis
- d. Tokenization

**Question Number : 8 Question Id : 4165293933 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Tokenizer is used for:

- a. Checking meaning of statements
- b. Generating Tokens
- c. Symbol table maintenance
- d. None of the above

**Question Number : 9 Question Id : 4165293934 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Top-Down parsing strategy starts from:

- a. Root node
- b. Valid string and moves upward
- c. Intermediate node
- d. None of the above

**Question Number : 10 Question Id : 4165293935 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Context-free grammar technique was developed by:

- a. Marvin Minsky
- b. Noam Chomsky
- c. Michel Foucault
- d. Sergey Brin

**Question Number : 11 Question Id : 4165293936 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

..... model is an algebraic model:

- a. Boolean
- b. Vector Space
- c. Binary Independence
- d. None of the above

**Question Number : 12 Question Id : 4165293937 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Robertson and Jones developed ..... Model of IR:

- a. Vector space
- b. Probabilistic Relevance
- c. Relevance Ranking
- d. Boolean

**Question Number : 13 Question Id : 4165293938 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In TF-IDF model IDF stands for:

- a. Inverted Document Frequency
- b. Interpolated Document Frequency
- c. Inverse Document Frequency
- d. Involved Document Frequency

**Question Number : 14 Question Id : 4165293939 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Stop words are

- a. Non semantic words
- b. Semantic Words
- c. Repetitive Words
- d. None of the above

**Question Number : 15 Question Id : 4165293940 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Cosine similarity measurement involves:

- a. Document and Index terms
- b. Document and query terms
- c. Document and query matrix
- d. Index terms and query terms

**Question Number : 16 Question Id : 4165293941 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

What do you mean by Hypertext Documents?

- a. Documents with different media
- b. Documents with links
- c. Documents without links
- d. Both b and c

**Question Number : 17 Question Id : 4165293942 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which one of the following does not come under media of information.

- a. Graphics
- b. Animation
- c. Text
- d. None of the above

**Question Number : 18 Question Id : 4165293943 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Who was the first person to solve the problem of searching a catalogue?

- a. Rudolph
- b. Emanuel Goldberg
- c. B.C. Vickery
- d. Eliot and Rose

**Question Number : 19 Question Id : 4165293944 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Who coined the term "information retrieval"?

- a. Calvin Moores
- b. H.P Luhn
- c. Vannevar Bush
- d. Ralph Shaw

**Question Number : 20 Question Id : 4165293945 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which model was proposed by Gerald Salton in the early 1960's for information retrieval

- a. Boolean Model
- b. Probabilistic Model
- c. Vector-space Model
- d. Statistical language Model

**Question Number : 21 Question Id : 4165293946 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Who proposed World Wide Web(WWW) ?

- a. Ted Nelson
- b. Steve Jobs
- c. Tim Berners-lee
- d. Bill Gates

**Question Number : 22 Question Id : 4165293947 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

What does ACID stands for ?

- a. Atomic Control Immediate Derivation
- b. Atomic Center for information Distribution
- c. Atomicity Consistency Isolation Durability
- d. Automatic Control of Industrial Denomination

**Question Number : 23 Question Id : 4165293948 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following gives a logical structure of the database graphically ?

- a. Architectural representation
- b. Entity diagram
- c. Database diagram
- d. Entity-relationship diagram

**Question Number : 24 Question Id : 4165293949 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which DBMS language provides a set of procedural commands to process the data ?

- a. Data Manipulation language
- b. Data Definition language
- c. Data Control language
- d. Transaction control language

**Question Number : 25 Question Id : 4165293950 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which one the following is not the function of SQL commands

- a. Insert
- b. Modify
- c. Delete
- d. Classify

**Question Number : 26 Question Id : 4165293951 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

A procedural language uses .....

- a. Commands
- b. Tables
- c. Algorithm
- d. steps

**Question Number : 27 Question Id : 4165293952 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

..... queries are more structured and for IRS these queries are unambiguous when compared to natural language queries

- a. Procedural
- b. Natural Language
- c. Command language
- d. None of the above

**Question Number : 28 Question Id : 4165293953 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

'Euclidean distance' is what kind of similarity measure

- a. Distance based
- b. Feature based
- c. Probabilistic based
- d. None of the above

**Question Number : 29 Question Id : 4165293954 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

What will be the output of the OR operation in fuzzy logic  $\max(X, Y)$  where  $X = 0.1$   $Y = 0.5$

- a. 0.1
- b. 0.5
- c. 0.4
- d. 0.6

**Question Number : 30 Question Id : 4165293955 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

..... is the process of choosing the best solution for query execution

- a. Query optimization
- b. Query formulation
- c. Query manipulation
- d. None of the above

**Question Number : 31 Question Id : 4165293956 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following is not a data models?

- a. Entity Relationship (E-R) Model
- b. Relational Model
- c. Object Oriented Model
- d. Document Model

**Question Number : 32 Question Id : 4165293957 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

..... is not an information retrieval system.

- a. OPAC
- b. Dialog
- c. Ubuntu
- d. EBSCO

**Question Number : 33 Question Id : 4165293958 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which is not the example of secondary sources?

- a. Dictionaries
- b. Journal articles in peer reviewed
- c. Encyclopaedias (also considered tertiary)
- d. Textbooks Monograph

**Question Number : 34 Question Id : 4165293959 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

What are the different types of search engines?

- a. Crawler based
- b. Human powered directories based
- c. Hybrid based
- d. All of the above

**Question Number : 35 Question Id : 4165293960 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

..... is meant for searching terms in a meaningful manner

- a. Semantic search
- b. Invisible search
- c. Reverse image search
- d. General search

**Question Number : 36 Question Id : 4165293961 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In 1966, who identified six criteria for the evaluation of an information retrieval system?

- a. Aniston
- b. Benton
- c. Cleverdon
- d. Devidson

**Question Number : 37 Question Id : 4165293962 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Vickery (1970) identifies six criteria for the evaluation of an information retrieval system and grouped into two sets. Choose the appropriate two sets from the options below?

- a. Set 1: Coverage, Recall, Response time Set 2: Uniformity, Need, Presentation
- b. Set 1: Coverage, Recall, Response time Set 2: Precision, Usability, Presentation
- c. Set 1: Coverage, Recall, Arrangement Set 2: Precision, Usability, Need
- d. Set 1: Time lag, Recall, Arrangement Set 2: Precision, Usability, Effectiveness

**Question Number : 38 Question Id : 4165293963 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In 1971, Lancaster proposed how many evaluation criteria?

- a. 6
- b. 9
- c. 2
- d. 5

**Question Number : 39 Question Id : 4165293964 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

What is the general formula for calculation of Recall?

- a. Recall = (Total number of relevant items in the collection / Number of relevant items retrieved) × 100
- b. Recall = (Number of relevant items retrieved / Total number of relevant items in the collection) × 100
- c. Recall = (Number of relevant items retrieved / Total number of items retrieved) × 100
- d. Recall = (Total number of items retrieved / Number of relevant items retrieved) × 100

**Question Number : 40 Question Id : 4165293965 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

What is the general formula for calculation of Precision?

- a. Precision = (Total number of relevant items in the collection / Number of relevant items retrieved) × 100
- b. Precision = (Number of relevant items retrieved / Total number of relevant items in the collection) × 100
- c. Precision = (Number of relevant items retrieved / Total number of items retrieved) × 100
- d. Precision = (Total number of items retrieved / Number of relevant items retrieved) × 100

**Question Number : 41 Question Id : 4165293966 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

MEDLARS stands for:

- a. Medical Limitation Analysis and Restoring System
- b. Medical Literature Analysis and Restoring System
- c. Medical Literature Analysis and Retrieval System
- d. Medical Literature Analysis and Retrieval Science

**Question Number : 42 Question Id : 4165293967 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In 1985, Blair and Maron (1985) published a report on a large scale experiment aimed at evaluating the retrieval effectiveness of a full-text search and retrieval system. This Study is known as:

- a. STAIRS
- b. SMART
- c. TREC
- d. None of the above

**Question Number : 43 Question Id : 4165293968 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Hidden Markov Models (HMM) form the backbone of automatic speech recognition (ASR) systems. The HMM is a:

- a. Telecommunications device that permits two or more users to conduct a conversation when they are too far apart to be heard directly.
- b. Transducer that converts sound into an electrical signal.
- c. Statistical representation of a speech event like a word.
- d. Electronic amplifier that reproduces low-power electronic audio signals.

**Question Number : 44 Question Id : 4165293969 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

What cannot be recognized by many ASR systems?

- a. Out-of-vocabulary words, such as proper nouns.
- b. High pitch sounds
- c. Both (a) and (b)
- d. None of the above

**Question Number : 45 Question Id : 4165293970 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**



What interface can be used for querying images?

- a. What interface can be used for querying images?
- b. Query interface
- c. Both (a) and (b)
- d. None of the above

**Question Number : 46 Question Id : 4165293971 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In Text Information Retrieval the keywords received through the search bar are processed using various techniques of:

- a. Spell check
- b. Tokenization
- c. Both (a) and (b)
- d. Alphabet omitters

**Question Number : 47 Question Id : 4165293972 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Taylor (1968) has explored the information need from the perspective of:

- a. Types of information sources.
- b. Psychology of human behaviour.
- c. Degree of information availability.
- d. All of the above.

**Question Number : 48 Question Id : 4165293973 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Anomalous State of Knowledge (ASK) was proposed by:

- a. Maurice Line
- b. Pauline Atherton
- c. T D Wilson
- d. N.J.Belkin

**Question Number : 49 Question Id : 4165293974 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Researchers require information for:

- a. To formulate a scientific or technical solution
- b. To make product oriented market strategies
- c. To enable full interpretation of the collected data
- d. Both (a) and (c)

**Question Number : 50 Question Id : 4165293975 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Reasons for conducting user studies:

- a. Identifying the actual systems and weaknesses of library resources and services.
- b. Identifying the limitations or problems which seem to discourage the use of the system.
- c. Identifying the system architecture to increase user collaboration.
- d. Both (a) and (b)