

Solved SAIL(MT) Exam Paper for Computer Science

Computer Science and Engineering all tech from comp science.

All Technical questions were from object oriented programming, Dbms and Computer networks & OOps.

Technical (Section 1) 100 marks, 0.25 negative for every wrong answer.

```
1. main()
{
Printf("main");
main();
}
```

What is the output ?

2. Which one is the OOP language

a. Small talk, b. Pascal. c. Basic

3. Which is not the features of OOP

a. Reflection b. Encapsulation, c. Abstraction d. Inheritance

4. What is the typed language of C++

a. Static b. Dynamic c. Link-binding

5. Which property of OOP makes let the user know only the functionality of method but not the detail how it is working

a. Abstraction b. Encapsulation c. Inheritance

6. How you define abstract class in C++

a. Using abstract mentod b. By writing keyword "abstract". c etc

7. Which one is the two way linked list

a. Circular linklist b. Node having header and trailer in the list C. Array

8. Which one uses the indexing

a. Linklist b. Arrays c. Stack d. Queue

9. Which is having many to many mapping

a. graph, b. tree, c. stack etc

10. Which one is not the behaviour of binary search

a. Deletion of any node. b. comparing with the middle value. etc

11. When data moves from lower layer to upper layer in OSI then what happens to headed

a. Removed b. Added.

12. What is called packets in network layer

a. Datagram b. Frame. etc

13. What switching is used in conventional land line

a. Packet b. Circuit. etc

14. What scheduling algo is used for real time OS

a. Round robin b. FIFO. c. Pre-emptive. etc

15. How many layers are there in OSI model

a. 7 b. 8 c. 6 etc

16. Repeaters work in which layer

a. Datalink b. physical c. Network etce

17. Process to process communication happens in layer

a. Session b. Transport c. Application d. Network

18. Which one is not in application layer

a. FTP b. TFTP. c. Virtual network terminal.

19. Which one return the acknowledgement

a. UDP. b. TCP etc

20. Which one is DDL

a. Trancate b. Delete c. Both d. None

21. Which one is true/false for using indexing in data base

a. Slow b. Fast C More space

22. Four DML given to find out the where indexing need not be used.

23. Which one create the deadlock

a. Mutex b. Semaphore c. Hold and wait

24. One numerical to find out the effective average access time where the cache and RAM memory speed given with hit/miss percentage

25. Which one do not require the context switching

a. General registers b. PC. c. Look aside table buffer

26. What is the size of address location for 8085

a. 1MB b. 128kb c. 64KB etc

27. What is the layer where the user comes in picture

a. Session b. Application c. Transport d. Network

29. Why NAND gate is called universal gate.

a. Using this, all other gates can be realised

b. This is largely used

c. etc etc

30. For 3 bits adder, what is the number of adder required

a. 2 full adder & 2 half adder b. 3 full adder and one half adder etc

31. One numerical to find out the number of address bit from the 32 segments of 1MB memory location

32. What comes previous to this 10000

a. 1111 (binary) b. FFFF (hex) c. 7777 (Oct)

33. Questions related to full binary tree to find the number of nodes in leaf

34. What does parity bit

a. Error detect b. Header c. Trailer

35. How to create and interface in C++

a. by virtual functions

b. by abstract class/method

c. by creating the class using "interface" keyword

36. What is for namespace used in C++

a. To resolve the name clashing

b. To create different name etc

Section I

1. Language which support diamond inheritance

a) C++ b) Java c) Both a and b d) None

Dbms

Some basic sql functions like trunc some questions from Oracle in C.N

All of them basic questions

Diff b/w hub and switch?

What happend to header of packet if routed from bottom to top layer etc.

Section II

Refer any Text book of Quantitative Aptitude

Read Competition Success for G.K and English

Part -1 Technical (100 Questions Computer Science)

Q(1) What will be output of the following-

```
main()
```

```
{
```

```
printf("tim");
```

```
main();
```

```
}
```

(a) tim (b) keep printing tim (c) black screen (d) none

Q(2) In which Data structure insertion and deletion is not possible in middle but at ends.

(a) Linked list (b) Pointer Array (c) Queue (d) Dqueue.

Q(3) OSI Model consist of how many Layer

(a) 2 (b)4 (c) 7 (d)9

Q(4) Why NAND gate is called universal gate?

Q(5) Which of the following not supported by C++

(a) Encapsulation (b) Abstraction (c) Reflection (d) Inheritance

Q(6) Which of the following support Diamond Inheritance

(a) C++ (b) Java (c) C (d) none

Q(7) Suppose X is a class and arg is parameter then What is syntax of passing parameter in a copyconstructor

(a) X(X arg) (b) X(X *arg) (c) X(X &arg) (d)none

Q(8) What is difference between Hub and Repeater?

Q(9) If there are 6 input to a Nand Gate the how many column will bw there in Full addre table?

Q(10) Which of the following is a DDL statement

(a) Delete (b) Truncate (c) Both a and b (d) none

Some other questions I am not remembering exactly. But approx 8 simple questions were based on OSI model layer and 7 Question based on simple SQL queries and 15 questions based on Java and C++ and 7 question on digital electronics and 15 question on Operating System and 15 on Data structure.

C++, Java, DBMS, SQL, Computer Network, Operating System and Data Structure are the subject from which questions were asked in paper.

Overall Technical section was easy but need some revision of technical question.

Part -2

Section (1) General awareness (25 Questions)

Q(1) Who have designed the Symbol of Indian Rupee?

Q(2) Where is Jim Corbett National Park in India?

Q(3) Who have got the Rajiv Khel ratan award of 2010?

Q(4) In which state of India Population density is very High?

gk question

1) olympic 2010 held in-----london

2) Currency of Bhutan-----NUGULTRAM

3) Measles is a type of-----VIRUS

4) Heart beat of Adult-----72

5) Heavy, strongest and long bone of body-----FEMUR

6) Jim Corbet national park-----Uttarnchal

7) Rupee symbol designed by-----D. UDAY KUMAR

8) Durand line is Between-----pak & afganistan

9) Winner of 20-20 world cup-----england

10) winner of Rajiv gandhi khel rattan award-2010-----saina Nehwal

11) which river falls in arbian SEA-----tapi

12) BIHU is a folk dance of-----assam

13) budh name-----sidhart

14) brahm smaaj-----raja ram mohan roi

15) company related to insurance-----IRDA

16) gadar movement telated with-----hardyal singh

17) new member of SAARA-----afganistan

18) olive branch signify-----PEACE

19) language under 8th schedual-----22

20) alpha keratin protien present in-----FIBER

21) Which state receieve winter rainfall by western disturbance-----Tamilnadu

22) equality of oppertunity of all citizen in matter of public employment come under-----ART 16

23) Kailasa temple-----ajanta

24) EX-office planning commision-----Prime minister

25) Most dense populated state.....UP

Some other questions were asked based on current gk.

Section(2) Reasoning(25 Question)

Just like R.S. Aggrawal book Questions

Section(3) English (25 Questions)

5 Question were Based on Article use, 5 on correct preposition based, and 10 Question were based on Comperihensive Passage

Section(4) Numerical ability(25 Quetions)

Most of questions were asked from Simple interest, Compound interest, Percentage, Time and work. Just follow R.S. Aggarwal.