

## Whole Testpaper Jamia Millia, New delhi - 20 June 2007

IMPETUS PAPER ON 20th JUNE AT NEW DELHI

Hi this is Raj from jamia millia New delhi. Impetus paper was very easy. only u hv to be confident.

Pattern:

10 questions:: Aptitude(so easy)

30 questions:: technical( basic funda)

Time::40 minutes

1. Banker's algorithm is used for-

- a). Deadlock Avoidance
- b). Deadlock Prevention
- c). Deadlock Handling
- d). None of these

<?xml:namespace prefix = o ns = "urn:schemas-microsoft-com:office:office" />

2. The software which run on hardware to support other programs to run is called-

- a) System software
- b) Operating system
- c) Application programs
- d) None of these

3. FSM can recognize-

- a) Any grammar
- b) Only CFG
- c) Any unambiguous grammar
- d) Only regular grammar

4. Any string of terminals that can be generated by the following CFG-

<?xml:namespace prefix = st1 ns = "urn:schemas-microsoft-com:office:smarttags" />S → XY

X → aX | bX | a

Y → Ya | Yb | a

- a) Has at least one b
- b) Should end in an a
- c) Has no consecutive a's or b's
- d) Has at least two a's

5. CSG can be recognized by a-

- a) FSM
- b) DPDM
- c) NDPDM
- d) Linearly bounded memory machine

6. The depth of a complete binary tree with n nodes is-

- a)  $\log(n+1)-1$

- b)  $\text{Log}(n)$
- c)  $\text{Log}(n-1)+1$
- d)  $\text{Log}(n)+1$

7. Which of the following traversal techniques lists the nodes of a binary search tree in ascending order-

- a) Post-order
- b) In-order
- c) Pre-order
- d) None of these

8. Odd man out-

- a) Fragrance
- b) Smell
- c) Foul smell
- d) Incense

9. What will be the output-

```
for(i=1;i<=3;i++)  
{  
    printf("%d",i);  
    continue;  
    i++;  
}
```

- a) 1,2,3
- b) 1,1,1
- c) 0,0,0
- d) Compilation error

10. Which is more important in a sql query IN or EXISTS-

- a) IN
- b) EXISTS
- c) Both
- d) Depend on the condition

11. In union which type of variables cant be used-

- a) Constants
- b) Static
- c) Extern
- d) None

12. Vendor is related to buyer, similarly consultant is related to-

- a) Firm
- b) Client
- c) Shop
- d) None

13. Compiler convert-

- a) High level language to machine language
- b) Three other options

14. What in these not in process-

- a) CPU register
- b) Counter
- c) Memory management info.
- d) None of above

15. FTP works on port no-

- a) 21
- b) 27
- c) 80
- d) 23

16. How many types of JDBC driver-

- a) 4
- b) 5
- c) 2
- d) 3

17. What is related to these: Humidity: Temperature: Pressure

- a) Meteorology
- b) Weather forecasting
- c) Geology
- d) None

18. what is used in a recursion

- a) stack
- c) queue
- d) linked list
- e) binary tree

one question was on constructor and virtual destructor in my opinion the option a) it will compile was right.

One question was like a program code was given and how many vpointers and b pointers it will use