

Previous Year Impetus Placement Paper (Aptitude & Technical)

1. Banker's algorithm is used for-
 - a). Deadlock Avoidance
 - b). Deadlock Prevention
 - c). Deadlock Handling
 - d). None of these
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-
S \rightarrow XY
X \rightarrow aX | bX | a
Y \rightarrow 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) $\log(n)$
 - c) $\log(n-1)+1$
 - d) $\log(n)+1$
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($i=1; i \leq 3; i++$)

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```
{  
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) Meterology b) Weather forecasting
c) Geology d) None

18.what is used in a recursion

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