

Brakes India Technical Interview Questions And Answers

SET _ 1

Q1. Why is a gateway used?

ANS: To connect incompatible networks.

Q2. What is a semaphore?

ANS: A method synchronization of multiple processes.

Q3. Preorder of $A*(B+C)/D-G$

ANS: $*+ABC/-DG$

Q4. What is meant by polymorphism?

ANS: Redefinition of a base class method in a derived class.

Q5. In the transport layer, TCP is what type of protocol?

ANS: Connection oriented.

Q6. What is the essential feature of inheritance?

ANS: All properties of existing class are derived.

Q7. How is linked list implemented?

Brakes India Technical Interview Questions And Answers

ANS: By referential structures.

Q8. What does the protocol FTP do?

ANS: Transfer a file b/w stations with user authentication.

Q9. What method is used in Win95 in multitasking?

ANS: Non preemptive check.

Q10. What is the precedence order from high to low of the symbols () ++ /?

ANS: () , ++, /

Q11. What is the efficiency of merge sort?

ANS: $O(n \log n)$

Q12. Which of the following sorting algorithm has average sorting behavior --

- a) Bubble sort
- b) merge sort
- c) heap sort
- d) exchange sort

ANS: Heap sort

Brakes India Technical Interview Questions And Answers

Q13. In unix .profile contains

ANS: Start up program

Q14. What is fork command in unix?

ANS: System call used to create process

Q15. In unix ,ls ,stores contents in

ANS: inode block

Q16. What is make command in unix?

ANS: Used for creation of more than one file.

Q17. What are device drivers used for ---.

ANS: To provide software for enabling the hardware.

Q18. In binary search tree which traversal is used for getting ascending order values

- a) Inorder
- b) post order
- c) preorder

ANS: Inorder

Brakes India Technical Interview Questions And Answers

Q19. In which layer, packets are formed?

ANS: In network layer.

Q20. A program on swapping (10,5) was given. In which layer routers are used?

ANS: In network layer

Q21. What is meant by dense index?

ANS: index record appears for every search -key in file.

Q22. In unix, echo is used for ---.

Q23. What is meant by functional dependency?

SET _ 2

1. In V belt drive contact is made on
1) bottom 2) sides 3)bottom and sides

2. Section modulus of hollow shaft
 $PI/32*(D^4-d^4)/D$

3. Down milling is also called Climb milling

4. Drilling is an example of Oblique cutting

5. Section view of 'C' washer

Brakes India Technical Interview Questions And Answers

- 6. Deflection of simple supported beam carrying UDL $\frac{5}{384} \cdot \frac{Wl^4}{EI}$**
- 7. Flexible coupling is used because**
- 8. Washer is used to provide bearing area**
- 9. Initial tension is considered in**
 - 1) tension springs 2) Compression springs 3) Both**
- 10. Kelvin plank law deals with**
 - 1) Conservation of work into heat 2) conservation of heat into work**
- 11. Soldering alloy consists of Tin and lead**
- 12. Why chromium is used in steel alloys? Corrosive resistance**
- 13. High cutting speed is obtained while machining**
 - 1) HSS 2) carbide 3) CBN**
- 14. Metal forming is an example of chipless machining**
- 15. Top rake angle is provided for Easy removal of chip**
- 16. Alloying is done for increased strength and application**
- 17. Transformer is used welding**
 - 1) to convert AC to AC**
 - 2) AC to DC 3) DC to AC**
- 18. Spheroidal cast iron is getting from Grey cast iron by adding Mg**
- 19. In throttling process Enthalpy constant**
- 20. 70 cc of engine means swept volume**
- 21. $\tan(\alpha) = \text{co efficient of friction}$**

Brakes India Technical Interview Questions And Answers

- 22. Geneva mechanism is used for Intermittent motion**
- 23. In NC system for profile machining**
1)point to point 2) contour motion 3)paraxial m
- 24. In centreless grinding, the grinding wheel and the regulating wheels rotate in the same direction.**
- 25. Centridal distance of a semi circle $4*r/3*pi$**
- 26. Highest packing factor: FCC**
- 27. Which chart takes care of control attributes : Pchart, C chart, R chart**
- 28. Fixture is used for holding the workpiece without disturbing the tool path**
- 29. Code for circular interpolation G 02**
- 30. Order of transmission in a car: EFCPD (Engine Flywheel Clutch propeller shaft Differential)**
- 31. Reverse gear has less speed because**
1.More speed is not necessary in reverse gear 2.Steering is difficult in the reverse direction 3.less space availability 4.Design simplification
- 32. Which of the following has no unit: specific gravity**
- 33. Use of annealing : to relieve stresses**
- 34. Question on stress concentration**
4 figures: one with the notch is the answer
- 35. How many squares are there in this figure: 14**

Brakes India Technical Interview Questions And Answers

36. Pulley question: $w=f/2$

37. Equivalent stiffness of springs in series: $k_1k_2/(k_1+k_2)$

38. Deflection=5 mm.stiffness= k ,.then applied load is 5 k

39 bevel gear is used in differential