**B.C.A.- II year (Annual Pattern)2019-20** **Important Questions**

**Paper code-203-Operating System**

1. Define operating system and its functions.
2. In short explain different types of operating system and their features.
3. What are system calls? Explain their working principle.
4. What is a process? Explain states of a process with diagram.
5. Define process control block and its components with a diagram.
6. What is scheduling algorithm? Why is it needed?
7. Differentiate between pre-emptive and non pre-emptive scheduling.
8. Explain FCFS and SJF scheduling with features.
9. Differentiate between round-robin and priority scheduling.
10. Define the following: - critical section and semaphores.
11. Define deadlock and its categories and criteria.
12. What do you mean by memory management?
13. Explain the relation between logical and physical address space.
14. Explain the following: - swapping, relocation, compaction, contiguous allocation.
15. Explain the concept of paging with the help of a diagram.
16. What is segmentation? Define its working principle.
17. Differentiate between Internal and external fragmentation with example.
18. Explain the concept of demand paging.
19. Explain different page replacement algorithms.
20. Define file system with its functions and types.
21. Differentiate between directory structure and graph structure.
22. What are disk scheduling algorithms? Explain.
23. Write a short note on security and protection.
24. What is Unix operating system? Explain its features.
25. Explain Linux file system and kernel administration.
26. Define: - Vi editor, Gnome interface, Linux shells.
27. Explain shell control statements.
28. Write short note on AWK programming.

Note: - For the answers of above questions, kindly refer to the notes given to you in the class-room.

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**B.C.A.- II year (Annual Pattern)2019-20** **Important Questions**

**Paper code-204-Web Technology and Application Development**

1. Give introduction and historical development of HTML with its versions.
2. Explain the structure of an HTML document and define each section with example.
3. Define basic tags of HTML with the help of syntax and example.
4. What are physical formatting tags? Explain giving example.
5. Differentiate between ordered list, unordered list and definition list in HTML.
6. How can you insert images in an HTML document?
7. What is a hyperlink? Explain the process of creating hyperlink through example.
8. Explain table tag and all its attributes with the help of syntax and example.
9. Define the following: - text field, radio button, checkbox, and drop down list.
10. What is cascading style sheet? Explain its types with example.
11. Differentiate between Java and JavaScript.
12. Explain the following in JavaScript: - comments, alert box, operators and variables.
13. Define control statements and their types in JavaScript.
14. What is ASP.Net? Explain its framework.
15. Explain standard controls in ASP.Net with their coding.
16. What are file uploading controls? Explain.
17. Differentiate between client side and server side state management.
18. Explain form validation and its types.
19. What are validation controls? Explain each with the help of an example.
20. Explain the process of setting database connection.
21. Define data source controls.
22. Differentiate between connection class and data adapter class.
23. Explain the process of displaying data in data bound controls.
24. What is data grid?
25. Give introduction and features of C#.

Note: - For the answers of above questions, kindly refer to the notes given to you in the class-room.

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