<u>⚠ BCS-011 №</u> COMPUTER BASICS & PC SOFTWARE

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Most Important Viva questions

- 1. What is a browser? What are its features? How does a browser communicate with web server?
- 2. What is the role of video card of a computer?
- 3. What is an Integrated circuit? What are the advantages of using Integrated circuits?
- 4. Explain the term batch processing in the context of operating system.?
- 5. What is cloud computing? Discuss key features of cloud computing.?
- 6. Explain the role of the following network devices :
 - (i) Network Interface Card
 - (ii) Modem
 - (iii) Hub
 - (iv) Router
 - (v) Spidering or Web Crawling
 - (vi) Indexing
 - (vii) Searching Looping Statement
 - (viii) Kernel of an Operating System
 - (ix) Linker and Text Editors
 - (x) Hub and Switches (Networking devices)
 - (xi) WIKI
 - (xiiRepeater
 - (xiii) Bridge
- 7. What is an open source software? Explain open source development model.?
- 8. What are the characteristics of optical fiber cable? What are the advantages and disadvantages of optical fiber?
- 9. Draw a flow chart to input three numbers and find the largest amongst them.?
- 10. What is the role of DNS? Explain with the help of an example?
- 11. Explain the role of any two folders that are part of your e-mail account.?
- 12. Convert the following as asked:
 - (i) (0.375)into equivalent binary.
 - (ii) (1010 1101)2 to equivalent decimal
 - (iii) (F2B)16 to equivalent binary
 - (iv) (1001 1401)2 to equivalent

hexadecimal

- 13. Explain the characteristics of I/O devices that will be needed for the following:
 - (i) A printed page is to be converted to electronic form without retyping it.
 - (ii) A printed bill has bar-code, which is to be read to get all the payment details.

- (iii) A device that xvill print very high quality and high precision graphs and pictures of different sizes.
- (iv) A device that is required to record voice.
- 14. Compare and contrast any five of the following:
 - (a) SRAM and DRAM
 - (b) Parallel port and. Serial port
 - (c) Subroutines and Functions
 - (d) Word processing and Spreadsheet software
 - (e) Primary search engines and Meta search engines
 - (f) Microwave transmission and Infrared transmission
 - (g)Parallel port and. Serial port
 - (h) Subroutines and Functions
 - (i) Word processing and Spreadsheet software
 - (j) Primary search engines and Meta search engines
 - (h) Microwave transmission and Infrared transmission
- 15. What is the role of compiler in a computer system?
- 16. Which of the following are valid IPv4 address? Give justification: 3
 - (i) 256.0.0.0
 - (ii) 192.168.1.27
 - (iii) 10.0.5.7.5
- 17. What is meant by the term 'Network Topology' ? Explain the bus topology with the help of a diagram. List the advantages and disadvantages of bus topology.
- 18. What are utility software? Explain the use of disk checker and disk defragmenter utility software.
- 19. Explain the concept of memory hierarchy with the help of a diagram.
- 20. Draw a flowchart to find if the given number is odd.
- 21. What is Unicode? Where and how is it used?
- 22. Explain the four different types of computer monitors?
- 23. What is an unguided media channel?
- 24. Explain the characteristics of the different kinds of unguided media channels?
- 25. What is perverse software and what are its effects? Describe briefly any three types of perverse software?
- 26. Draw the graph for the following:
 - (i) Analog signal
 - (ii) Digital signal
- 27. List five security measures one should take while browsing?