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Subject Title: Fundamentals of Computer Prepared by: M.pallavi Year: I Semester: II Updated on: 13/02/2020

Unit - I: SHORT QUESTIONS

- Define computer?
- List any four characteristics of computer?
- 3. List the applications of computers?
- 4. Discuss various output devices?
- 5. Discuss in brief about cache memory
- 6. Write a short on primary and secondary memory
- Write brief note on RAM and ROM
- 8. What is USB flash drive?
- Define memory cards?
- 10. Write a short note on offline storage devices?

Unit - II

- 11. Give an overview of decimal number system
- 12. Add the following numbers in gave base without converting to decimal.(1230)4 and (23)4
- 13. Explain the one's complement and two's complement representation of a binary number
- 14. Draw the symbols of the AND ,OR and NOT Gates
- 15. What about the k-map
- Define computer software.
- 17. What is system software and application software
- Define firmware and middleware.

Unit - I: ESSAY QUESTIONS

- 19. What is computer? Explain in brief the significance characteristics of a computer
- Discuss in brief about the various generations of the computers.
- 21. Classify the computer on the basis of size and performance





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- 22. Explain the block diagram of the computer /architecture of computer.
- 23. Explain about the input devices
- 24. Explain about the output devices
- 25. Give a brief introduction on computer memory .illustrate the hierarchy of memory
- Write about the (i) Processor Register (ii) Cache memory
- 27. Explain in the detail about primary memory
- 28. Explain briefly about the ROM
- 29. Discuss about (a) secondary storage devices (b) Hard disk
- What are the uses ,advantages and limitations of optical disks

UNIT-II

- Describe the procedure of converting binary t decimal numbers .convert the following binary numbers into decimal numbers system.
 - (i) (10110111)₂
 - (ii) (10010.1011)₂
- 32. List the step to convert from decimal to binary with an example.
- 33. Explain binary addition ,subtraction ,multiplication and division with examples
- 34. Explain the ones and two's complement representation of a binary number.
- 35. Explain the subtraction of binary numbers using one's complement method with examples
- 36. Explain the subtraction of binary numbers using two's complement method with examples
- Write about the octal number system .and also conversion from octal to decimal and decimal to octal.
- 36 Write about the hexadecimal number system .and also conversion from hexadecima to decimal and decimal to hexadecimal.
- 37 Discuss in brief the ASCII codes of the character
- 38 Explain the venn diagram with the different laws
- 39 Explain the following terms
 - (i) Standard form
 - (ii) Min term
 - (iii) Max term





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- (iv) Canonical form
- 40 Explain the method to convert SOP and POS forms into their standard forms.
- 41 Explain the Logic gates. Explain about the logic gates giving their graphic symbol and truth tables.
- 42 Define logic diagram and explain about converting a Boolean expression to logic diagram and vice versa.
- 43 Define the k-map .Explain the implementation and simplification of 2- variable and 3-variable k- map
- 44. Explain about 4-variable k-map
- 45 Explain briefly about the computer software
- 46 Explain in detail about the system software
- 47 Explain in detail about the application software
- 48 Write a short notes on
 - (i)Firmware
 - (ii) Middleware
- 49 Discuss about the software development life cycle (SDLC)

