

H.B.COLLEGE, VIJAY NAGAR , JABALPUR

ASSIGNMENT QUESTIONS

B.C.A. I YEAR 2019-2020

FUNDAMENTAL OF COMPUTERS AND SOFTWARE

- 1- Explain the characteristics of Computer?
- 2- What do you mean by computer language?
- 3- Explain the features of DOS?
- 4- Explain the booting process in DOS?
- 5- Explain the following in M.S. Word :-
 - 1- Menu Bar
 - 2- Text Attribute
 - 3- Formatting

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COMPUTER SYSTEM ARCHITECTURE

- 1- Explain the Architecture of 8086 microprocessor with suitable diagram.
- 2- Explain the components of Mother Board, different cards and their functions, in brief.
- 3- Explain different types of data transfer modes with example.
- 4- Explain following:-
 - 1- Address space and Memory space
 - 2- Associative and Virtual Memory
- 5- Explain in brief :-
 - 1-Write into Cache
 - 2-Page Table

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PROGRAMMING AND PROBLEM SOLVING THROUGH 'C'

- 1- Explain debugging and documentation.
- 2- Explain difference between “while” and “do-while” loop.
- 3- Explain Pointer to Pointer .
- 4- Write a program in “C” to arrange the elements of one dimensional array in ascending order.
- 5- Explain following :-
 - 1- getch () and puts ()
 - 2- palettes and colours

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INTERNET & WEB TECHNOLOGY

- 1- What is ARPANET? Explain Internet Protocol TCP/IP.
- 2- Explain different types of Network Topologies with example.
- 3- Explain the following :- Workstation, ISDN, DNS
- 4- Explain components of Web Publishing.
- 5- What is Java Script? Explain writing functions.

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CYBER SECURITY

- 1- Explain TCP/IP model.
- 2- Discuss Access Control Structure.
- 3- Explain importance of digital signature.
- 4- Discuss about protocol design principle.
- 5- Explain architecture of UNIX operating system.

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DISCRETE MATHEMATICS AND ALGEBRA

- 1- Define relation and its type with example.
- 2- Prove that $(P \wedge q) \wedge (\sim P) \wedge (\sim q)$ is a contradiction.
- 3- Show that set of all positive rational numbers forms an abelian group under composition defined by $a * b = ab/2$
- 4- Describe following with example:-
 - 1- Graph
 - 2- Connected graph
 - 3- Tree
- 5- Find the rank of matrix A where

$$A = \begin{pmatrix} 2 & 1 & -1 \\ 0 & 3 & -2 \\ 2 & 4 & -3 \end{pmatrix}$$