

H.B.COLLEGE, VIJAY NAGAR , JABALPUR

ASSIGNMENT QUESTIONS

B.C.A. II YEAR 2019-2020

DATA STRUCTURES USING C++

- 1- Explain Principle of object oriented programming language and difference between OOP and POP?
- 2- Explain Following
 - 1- Structure of C++ Program
 - 2- Function Overloading
- 3- Describe data structure and its types?
- 4- Write note on: -
 - 1- Searching
 - 2- Sorting
- 5- What are Binary Trees and Applications of Trees?

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DATABASE MANAGEMENT SYSTEM & RDBMS

- 1- What is database Administrator? Explain Role functionality and Importance of database Administrator.
- 2- Explain following:- (a) E-R Model (b) Keys in Databases
- 3- What is SQL? Write short note about classification of SQL & Database in SQL.
- 4- Explain Following :- (a) Function Dependency
(b) Join Dependence
- 5- Write note on Following :- (a) Data Warehousing
(b) Distributed database

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SOFTWARE ENGINEERING

- 1- What are prototyping techniques? How are prototype model prepared for a Software process?
- 2- Discuss the technique of Software estimation and describe COCOMO model.
- 3- Explain the fundamental software design concept in detail?
- 4- Define validation testing. How it be achieved?
- 5- List out any two functions of CASE tool in detail.

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OPERATING SYSTEM WITH UNIX/LINUX

- 1- Describe concepts of CPU scheduling and Multiprocessor scheduling.
- 2- What is Deadlock? Write the different methods of deadlock handling.
- 3- Write short note on: - (a) Swapping (b) Virtual Memory
- 4- Write about Unix Commands and File System
- 5- Explain Unix shell and Interuser Communication commands.

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ACCOUNTING AND FINANCIAL MANAGEMENT

- 1- Explain the meaning of accounting .What are its benefits ?
- 2- Write short note: - 1- Sale book, 2- Debit Note
- 3- Explain the characteristics of Tally. Describe the method of forming a company in Tally.
- 4- Describe the method of making a ledger in Tally.
- 5- Explain the five types of vouchers in Tally.

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ASSIGNMENT QUESTION

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COMPUTER ORIENTED NUMERICAL METHODS

1- Find the real root of equation $x^3 - 2x - 5 = 0$ by bisection method.

2- Find the solution of these equation by gauss Elimination Method :-

$$X + 2Y + Z = 3$$

$$2X + 3Y + 3Z = 10$$

$$3X - Y + 2Z = 13$$

3- Prove that :- $\Delta - \nabla = \Delta \nabla$

4- Find the value of $\int_0^1 \frac{dx}{1+x^2}$ by simpson's 3/8 rule with $n=6$.

5- Using Euler's method find an approximate value of 'y' corresponding $x=0.05$ and $x=0.1$, given that $\frac{dy}{dx} = x+y$, $y(0)=1$