

VIDYA VIHAR COLLEGE
MAULANA MAZHARUL HAQUE ARABIC & PERSIAN UNIVERSITY, PATNA

BCA 3rd YEAR

INTERNAL ASSIGNMENT

SESSION : 2021-24

PAPER : XVII **SOFTWARE ENGINEERING**

[MAX MARKS : 20]

The question paper is in consists two sections A & B. Section - A consists 05 short answer type questions. Each question is of 02 marks (word limit 100 words). Attempt all questions. Section - B consists of 02 descriptive type question. Each question is of 05 marks (word limit 300 words). Attempt all questions. Use graphs, charts and diagrams to explain your answer if necessary .

Section : A

1. Short answer type questions (maximum limit 100 words). Attempt all questions. [05 x 2 = 10]

- 1> What is Software Paradigms?
- 2> Explain Software Evolution?
- 3> What is Software Sizing?
- 4> What is the Role of Metrics and Measurement?
- 5> What is SRS and also explain component od SRS?

Section : B

2. Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. [02 x 5 = 10]

- 1> Explain software process model. And also explain Waterfall Model, Iterative Model with diagram in detail?
- 2> What is Testing? Explain the all types of Testing (Unit, Alphe, Beta, Acceptance, Functional, Integration, System, White Box, Black Box Testing in detail?

OR

Explain the terms in detail:- i> Prototyping Model

ii> V-Model

iii> Cost Estimation Model

iv> Fourth Generation Technique

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PAPER : XVIII

COMPUTER GRAPHICS

[MAX MARKS : 20]

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Section : A

1. Short answer type questions (maximum limit 100 words). Attempt all questions. [05 x 2 = 10]

- 1> What is Computer Graphics?
- 2> Explain any three Input Devices?
- 3> What is 2D Graphics?
- 4> What is CRT?
- 5> Explain Raster Scan System?

Section : B

2. Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. [02 x 5 = 10]

- 1> Explain the Bresenham's Line using Algorithm in detail?
- 2> Discuss 3D Graphics from Computer perspective in detail?

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PAPER : XIX

JAVA PROGRAMMING

[MAX MARKS : 20]

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Section : A

1. Short answer type questions (maximum limit 100 words). Attempt all questions. [05 x 2 = 10]

- 1> Explain OOPS concept?
- 2> Define JDK vs JRE vs JVM?
- 3> Define Package in java?
- 4> Explain about Interfaces in Java?
- 5> What is the purpose of throw keyword? How to handle the user defined exception in Java?

Section : B

2. Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. [02 x 5 = 10]

- 1> What are the different ways to create a Thread? Explain Start() run() methods with example?
- 2> Write a program to search a word from a text file.
 - (a) If the word is found then print a message that “The word is found” along with the position of the word in the file.
 - (b) If the word is not found, print a message that “The word is not found” along with the total number or word in the file.

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PAPER : XXI

ARTIFICIAL INTELLIGENCE

[MAX MARKS : 20]

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Section : A

1. Short answer type questions (maximum limit 100 words). Attempt all questions. [05 x 2 = 10]

- 1> What are the limit of AI in term of Development?
- 2> What is the basic elements of AI?
- 3> What do you mean by ES-Shells?
- 4> Explain Semantic Analysis?
- 5> Define PROLOG?

Section : B

2. Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. [02 x 5 = 10]

- 1> Explain BFS and DFS in detail and also draw the suitable algorithm?
- 2> What do you mean by Expert system and Architecture of Expert system in detail with its benefits and advantages?

BCA 3rd YEAR

INTERNAL ASSIGNMENT

SESSION : 2021-24

PAPER : XXII

COMPILER

[MAX MARKS : 20]

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Section : A

1. Short answer type questions (maximum limit 100 words). Attempt all questions. [05 x 2 = 10]

- 1> What is Compiler Design?
- 2> Explain Finite Automata with example?
- 3> Define problem in Code Generation in compiler design?
- 4> Explain Postfix translation in compiler design?
- 5> What is Parameter passing in Compiler design?

Section : B

2. Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. [02 x 5 = 10]

- 1> What is DAG? Solve this question using DAG representation

T1:= 4* J
T2:= a[T1]
T3:= 4* J
T4:= b[T3]
T5:= T2*T4
T6:= prod + T5
Prod:= T6
T7:= i + 1
i:= T7
IF i<= 20 goto (1)

- 2> Define Phase Tree and also its types with example?