

VIDYA VIHAR COLLEGE

MAULANA MAZHARUL HAQUE ARABIC & PERSIAN UNIVERSITY, PATNA

COURSE : BCA

YEAR : III

INTERNAL ASSIGNMENT

Session : 2019 - 22

PAPER : XVII

SOFTWARE ENGINEERING

[MAX MARKS : 20]

The question paper consists of 05 descriptive type questions. Each question is of **04 marks** (word limit 300 words). Attempt all questions. Use graphs, charts and diagrams to explain your answer if necessary.

Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. [5 x 4 = 20]

1. What do you mean by SDLC? Describe the different phase of SDLC in detail?
2. What is cost and benefit analysis? Explain the procedure of benefit /cost determination?
3. Unified process is represented by communication, planning, modeling, construction and deployment phase and Explain what is happening in these five phases.
4. Define Black Box testing. Define White Box testing. Apply them by hand (i.e. You don't need to use a computer) to any program and write the result.
5. What are the main shortcomings of data flow diagram (DFD) as a tool for performing structured analysis?

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COMPUTER GRAPHICS

[MAX MARKS : 20]

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1. Write the difference between vector and raster graphics?
2. What is computer graphics and what does it entails?
3. Write a short note on :
 - a. Keyboard
 - b. Mouse
 - c. Joystick
 - d. Trackball
 - e. Digitizer
 - f. Light pen
 - g. Touch panels
 - h. Scanner
 - i. Printer
4. Write the important applications of computer graphics?
5. Explain briefly the Ellipse drawing algorithm.

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PAPER : XIX

JAVA PROGRAMMING

[MAX MARKS : 20]

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Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. **[5 x 4 = 20]**

1. Write a program in Java to print ASCII value of all upper case alphabets.
2. Describe different forms of inheritance with examples.
3. Explain the important features of Java.
4. What is a Package?
5. What is Thread in Java? What are the two ways of implementing thread in Java?

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PAPER: XXI

ARTIFICIAL INTELLIGENCE

[MAX MARKS : 20]

The question paper consists of 05 descriptive type questions. Each question is of **04 marks** (word limit 300 words). Attempt all questions. Use graphs, charts and diagrams to explain your answer if necessary.

Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. **[5 x 4 = 20]**

1. What is alternate, artificial, compound, and natural key in detail?
2. Differentiate between Natural (Human) Intelligence & Artificial Intelligence.
3. Mention the differences between breadth first search and best first search in artificial intelligence?
4. Define Artificial intelligence on the basic of “System that think rationally” and “System that act like human”.
5. Explain the different domains of Artificial Intelligence.

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PAPER :XXII

COMPILER

[MAX MARKS : 20]

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Descriptive type questions (maximum limit 250 - 300 words). Attempt all questions. [5 x 4 = 20]

1. Give the structure of Compiler.
2. Define Compiler briefly?
3. Write a short notes on compiler construction tools.
4. Define the following
 - a. Preprocessor
 - b. Assembler
 - c. Loader and Linker
5. Analyze structure of compiler with an assignment statement.