Nalanda Open University

Bachelor in Computer Application, Part-II

Final Examination, 2008

CS-05

Time: 3.00 Hrs. **Full Marks: 75**

Answer any Five Questions. All questions carry equal marks.

1. Why cost/benefit analysis is essential for any project? Discuss.

2. Discuss the problem classification and definitions.

3. What are the differences between decision table and decision tree?

4. What is input design guideline? Why it is important in system design?

5. How the data are to be placed on the file? Explain.

6. What are the objectives of Design? Explain.

7. Discuss the impact of management information system on the organization.

8. What are the techniques of system analysis?

9. Why database technology is very important in any organisation? Discuss.

10. Write short notes on the following:

    (a) 4GL

    (b) Information and Management

    (c) In-line Data Dictionary

    (d) Audit Trail

    (e) Application Output

NALANDA OPEN UNIVERSITY
Main Examination, 2008

Time:2.00 Hrs. **N-BCA-II(CS-63)**

Full Marks: 60

BCA, Part-II, Paper-CS-63

Answer any five questions. All question carry equal marks

1. What do you mean by programming language? Write the elements of a programming language.
2. Explain language Translator. Differentiate between Compiler and Interpreter.
3. What are the elements of a GUI ? List out the advantages of GUI.
4. Differentiate between the following Unix commands
   I. **diff** and **comp**
   II. **cp** and **mv**
   III. **grep** and **cat**
   IV. **head** and **tail**
5. what is a process? Define PCB with the help of a diagram.
6. what is preemptive and non preemptive scheduling? Which is better? Give reason in support of your answer.
7. Define scheduling with a suitable diagram.
8. What is internal and external fragmentation? Is there any solution to fragmentation? Explain.
9. write short notes on any two of the following;
   I. Scan scheduling
   II. Linked list disk space management method
   III. Demand paging
   IV. Virtual memory
10. Describe Multi-user OS. List out the important features of Unix.

Nalanda Open University

Bachelor of Computer Application, Part-II
Main Examination, 2008
Paper (FST-01)

Time:3.00 Hrs. **Full Marks : 75**

Answer any Five Questions. All questions carry equal marks.
किन्हीं पाँच प्रश्नों के उत्तर दीजिए। सभी के मान बराबर हैं।

1. What is Science? Delineate its history.
विज्ञान क्या है? इसके इतिहास को रेखांकित कीजिए।
2. Discuss the origin of Agriculture and civilisation.
कृषि एवं सभ्यता के उद्‌भव का विवेचन कीजिए।
3. Examine the Status of Science in Iron Age India.
लौह–युग भारत में विज्ञान की स्थिति का परीक्षण कीजिए।
4. Discuss the Social organisation in India during the Gupta Period.
भारत में गुप्तकालीन सामाजिक संगठन का विवेचन कीजिए।
5. Discuss the contributions of **either** C.V. Raman **or** S.N. Bose.
सी० वी० रमण या एस० एन० बोस के अवदानों का विवेचन कीजिए।
6. Discuss, in brief, the Planets of Solar System.
संक्षेप में, सौर मंडल के ग्रहों का विवेचन कीजिए।
7. Discuss the causes and remedies of Sound pollution.
ध्वनि प्रदूषण के कारणों एवं समाधानों की विवेचना कीजिए।
8. Write short notes on any two of the following:
अधोलिखित में से किन्हीं दो पर संक्षिप्त टिप्पणियाँ लिखिए:
   (a) Homo Habilis होमो हेबलिस
   (b) Netrogen cycle नेत्रजन चक्र
   (c) O_3 ओ$_3$
   (d) Forest Resources वन ससाधन
9. Mention, briefly, as to what advancements have been made to in the Production of the following alternate foods.
अधोलिखित वैकल्पिक खाद्य पद्धार्थों के उत्पादन में हुयी प्रगतियों का संक्षेप में उल्लेख कीजिए।
   (a) Milk (दूध)
   (b) Fish (मत्स्य)
   (c) Egg (अंडा)
10. Mention the names of the Harmones secreted by the following glands.
अधोलिखित ग्रंथियों से उत्साहित होने वाले हारमोन्स का नामों का उल्लेख कीजिए:–
8. Write short notes on any two of the following:
   (a) Hypothalamus (b) Pitutary (c) Thyroid
   (d) Adrenal Medulla (e) Pancreas (e) Adrenal Cortex

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Nalanda Open University

Bachelor of Computer Application, Part-II

Examination, 2008

Paper- X [CS-06]

Time : 3.00 Hrs. **Full Marks : 75**

Answer any five questions. All questions are of equal marks.

1. Explain secondary indexes with examples.

2. How relations of entity sets can be represented? Discuss.

3. Discuss about the structure of distributed database.

4. Differentciate 4th and 5th normalization with example.

5. Discuss about the basic operations of relational algebra.

6. Discuss about the basics of Client/Server computing paradigm.

7. What are the advantages of object oriented database over relations database?

8. What is knowledge? Discuss about the importance of knowledge.

9. Discuss about object oriented database management system and promises of object oriented system.

10. Write short notes on the following:
    (a) Rule based representation.
    (b) Object oriented technology.
    (c) Updating the database
    (d) Anomalies in a database
    (e) Multilist file organization.

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Nalanda Open University

Bachelor of Computer Application, Part-II

Final Examination, 2008

Paper -XI (CS-64)

Time:3.00 Hrs. **Full Marks : 75**

Answer any Five Questions. All questions carry equal marks.

1. What is Direct Momory Access? Explain the use of Error Detection and Correction Codes.
2. Explain Integer and Floating point Representation.
3. Explain with diagram various types of Flip-Flops and their Truth Table.
4. Explain Addressing Modes with Examples.
5. Write Assembly language program to subtract one value from another, also store borrow in another variable.
6. Explain Insturction Fetch and Execute Process. Also explain ALU organization with Block digram.
7. Explain the Following:
   (a) Decoders
   (b) Memory Hierachy
   (c) Cache Memory
   (d) I/O Processor
8. Explain various types of RAM and ROM. Explain use of Memory Address Register and Memory Buffer Register.
9. Explain Programmable Logic Array. Explain the purpose of Interrupt and interrupt handling mechanism.
10. Explain the use of Stack Pointer, Program Counter, General Purpose Registers. How Sub-Routine Calls are made.

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Nalanda Open University

Bachelor of Computer Application, Part-II
Examination, 2008
Paper- XIII [CS-66]

Time : 3.00 Hrs. **Full Marks: 75**

Answer any five questions. All questions carry equal marks.

1. Explain various applications of Multimedia in Education and Entertainment.

2. Explain the feature of any Multimedia Authoring Tool. Name some of the s/w for multimedia applications.

3. Explain various picture formats. How multimedia is useful for web sites.

4. Explain the various multimedia storage devices. Create five slides showing importance of computers.

5. What are components of Multimedia? How it is useful in E-commerce applications?

6. Explain steps for planning multimedia document preparation. How multimedia is useful for training.

7. Explain Hypermedia and various componenents of Hypertext. Explain applications where Hypertext can be useful.

8. Explain various Multimedia devices available with computers. How multimedia is suitable for advertising?

9. Explain the use of Multimedia for Medical industry. Esplain features of QUICK TIME.

10. Explain features of DVD, CD. Explain various video formats. Also explain video compression.

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