

2008

Bachelor in Information Technology (B.I.T.) / Seventh Semester / Final
 Time: 03:00 hrs. Full Marks: 80 / Pass Marks: 32
 BIT415CS, Artificial Intelligence

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicates full marks.

Group A: Long-answer Questions

Answer TWO questions.

2 × 12 = 24

- 1 (a) What is an expert system? Explain the architecture of expert system. 8
- (b) Discuss how expert system has been applied in the field of education. 4
- 2 (a) Define intelligence. What necessary characteristics an intelligent system should possess? Explain. 6
- (b) Explain the advantages of artificial intelligence over human performance. 6
3. Convert the following English sentences into predicate logic. 6 × 3 = 18
 - (a) Everyone likes ice-cream. → ~~∀x likes ice-cream~~
 - (b) Nobody likes taxes.
 - (c) All students either work hard or they fail exams. ←
 - (d) All purple mushrooms are poisonous.
 - (e) John only likes easy courses.
 - (f) People only try to assassinate ruler they are not loyal to.

Group B: Short-answer Questions

Answer SEVEN questions.

7 × 8 = 56

4. Define problem. Discuss how planning is used in problem solving with suitable examples.

(2)

5. Describe the process of learning by analogy.
6. What is knowledge? Explain the different types of knowledge.
7. What do you mean by inference? Discuss the inference rules with examples.
8. Discuss the basic concepts of neural networks. Briefly explain about Hopfield networks.
9. What do you understand by semantic net? Explain how frame systems resemble semantic nets. ✓ Look like
10. Discuss in brief about several processes involved in natural language processing.
11. Write short notes on [Any TWO]:
 - (a) Genetic Algorithm
 - (b) Bayesian Networks
 - (c) Back propagation

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2014

Bachelor in Information Technology (B.I.T.)/Seventh Semester/*Final*

Time: 03:00 hrs.

Full Marks: 80 /Pass Marks: 32

BIT415CS: Artificial Intelligence

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Group A:

Answer TWO questions.

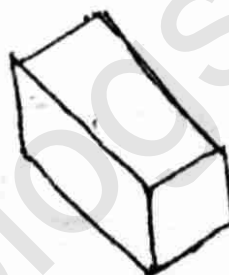
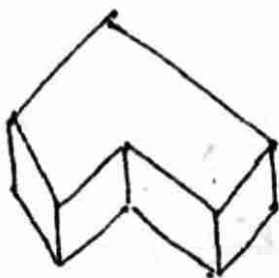
2×12=24

1(a) What is line detection? Discuss.

6

(b) Correctly label each line of the given drawings.

3+3



2(a) What is an expert system? What are the various areas of application of expert systems?

2+4

(b) Briefly describe the main components of expert systems?

6

3(a) What is a multi-layer perceptron? Give its structure.

2+4

(b) Briefly describe Khonen network.

6

Group B:

Answer SEVEN questions.

7×8=56

4. What is backward chaining? Discuss.

8

5. What is mean-ends analysis? Describe.

8

6. Distinguish between natural intelligence and artificial intelligence.

8

7. What is a semantic network? Describe it with the help of a some example.

8

(2)

8. Represent the following sentences in predicate calculus. 4+4
- (a) All Romans were either loyal to Caesar or hated him.
- (b) All pompeians were Romans
9. Describe case-based reasoning in detail. 8
10. Explain the working principle of a genetic algorithm with the help of a sample example. 8
11. Describe the Boltzmann machine in detail. 8
12. Write short notes on any TWO: 2×4=8
- (a) Madaline
- (b) Frames
- (c) Knowledge representation

goal based
leaf to root



PURBANCHAL UNIVERSITY

2024

4 Yrs. Bachelor of Computer Application (BCA)/6th Semester / Final

Time: 03:00 hrs.

Full Marks: 80 / Pass Marks: 32

BCA352CO: Software Engineering (New Course)

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group A

2×12=24

Answer TWO questions.

1. ABC is an international software house. ABC is currently working on a project that is totally new for the development team and even the client is confused about the requirements of this project. Hence this company is facing difficulties because they fail to apprehend user requirements properly. For this project, it is decided to build a sample application and show it to the client for feedback. In the context of this above scenario as a project manager what will be the choice of the software life cycle model and why? Explain all the phases of that software life cycle model with advantage and disadvantage.
2. Explain why requirement gathering is a complex activity. How does the requirement engineering process help to overcome these complexities? Briefly explain the components of a Software Requirement Specification (SRS) document. 2+4+6
3. Why test case design is important? What are the principles of testing and how do they guide the testing process? 2+5+5

Group B

7×8=56

Answer SEVEN questions.

4. What are the fundamental characteristics of software that distinguish it from other types of products or systems? Explain.
5. Explain how COCOMO can be used to estimate the effort and development time of a software project.
6. What is the importance of software architecture? Describe any two types of software architecture. 2+6
7. What is ISO 9000 software standard? Explain various metrics used in assessing the software quality. 2+6
8. Explain about some emerging trends and technology in software engineering.

Contd. ...

(2)

9. What do you mean by project scheduling? Explain SCM in detail. 2+6
10. What are design principles? Write about the process of software design. 3+5
11. Write short notes on Any TWO: 4+4
- (a) Functional and non-functional requirements
 - (b) Software verification and validation
 - (c) Design strategy
- ///
///

11. Write Short Notes on any TWO: 2+4=8

(a) UNIX Standard: POSIX

(b) Iterative Server and Concurrent Server

(c) SCTP



PURBANCHAL UNIVERSITY

2021

Bachelor in Information Technology (B.I.T.)/Seventh Semester/*Final*

Time: 03:00 hrs.

Full Marks: 80 / Pass Marks: 32

BIT475CO: Software Engineering (New Course)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Group A

Answer TWO questions.

2×12=24

1. What are the important Project scheduling Techniques in SPM? Explain COCOMO model of software cost estimation.
2. Explain software engineering as a layered technology. What are the benefits of using spiral model in developing software?
3. Explain software testing process. Write the importance of white box testing and black box testing in software engineering.

Group B

Answer SEVEN questions.

7×8=56

4. Explain the evolving role of software in today's context.
5. Write the advantages or disadvantages of waterfall model. ✓
6. Why design is important? Explain the various architecture style of designing a system. ✓
7. What are the various functional and non-functional requirements in software requirements? Explain with examples. ✓
8. Define unit testing. How software verification differs from software validation? ✓
9. What do you mean by software quality assurance? Explain SQA plan.
10. What do you mean by 4Ps in managing a software project? Explain. ✓ 2+6
11. Write short notes on any TWO: ✓ 4+4
 - (a) Boundary Value Analysis
 - (b) Software quality assurance
 - (c) Modeling with UML



2018

Bachelor in Information Technology (B.I.T.) / Seventh Semester / Final
Time: 03:00 hrs. Full Marks: 80 / Pass Marks: 32
BIT475CO: Software Engineering (New Course)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Group A**Answer TWO questions.****2×12=24**

1. What do you mean by requirement engineering? Explain the steps that are followed during requirement engineering.
2. What is software testing? Differentiate between black box and white box testing.
3. What is software prototype? Does spiral model uses prototyping technique? Explain how spiral model handles project risk.

Group B**Answer SEVEN questions.****7×8=56**

4. What is software? Explain the quality of good software.
5. What is SRS? Explain the feature of good SRS.
6. What do you mean by software design? Explain ABSTRACTION, REFINEMENT and MODULARITY with reference to software design.
7. Explain COCOMO model of software cost estimation.
8. What is software project management? Explain how projects are scheduled.
9. Explain the differences between verification and validation? What do you mean by cyclomatic complexity of a software.
10. What do you mean software quality assurance? Explain SQA plan.
11. What is object oriented software engineering, with its advantages compared to traditional software engineering approach?

2017

Bachelor in Information Technology (B.I.T.)/Seventh Semester /Final
Time: 03:00 hrs. Full Marks: 80 /Pass Marks: 32
BIT475CO: Software Engineering (New Course)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Group A

Answer TWO questions.

2×12=24

1. Explain software engineering as a layered technology? Explain the RAD model with its benefits and drawbacks. 4+8
2. Why software project management is difficult process? Explain any two of the project scheduling techniques in detail. 4+8
3. What are the characteristics of SRS Document? How prototyping techniques can help in requirement specification? 4+8

Group B

Answer SEVEN questions.

7×8=56

4. Why the importance of software is increasing? Explain the changing nature of software. 2+6
5. Why design is important? Explain the various architectural style of designing a system. 2+6
6. List all the process models and explain waterfall model in detail. 8
7. Differentiate between functional testing strategy and structural testing strategy. 8
8. Define unit testing. How software verification is different than software validation? 2+6
9. Define Coupling and cohesion. Explain in brief about the interface design, architectural design and detail design process. 2+6

(2)

10. Define software metrics and measurements. How reliability can be accessed during quality assurance. 2+6
11. Define UML. Explain in brief about the structural modeling and behavioral modeling of UML. 2+6
12. Write short notes on any TWO: 4+4
 - (a) Software design strategy
 - (b) Cyclomatic Complexity
 - (c) Risk management

2017Bachelor in Information Technology (B.I.T.)/Seventh Semester/*Final*

Time: 03:00 hrs.

Full Marks: 80 /Pass Marks: 32

BIT475CO: Software Engineering (New Course)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Group A**Answer TWO questions.****2×12=24**

1. ✓ What are the generic activities in all software process? Explain how Boehm's postulates the concept of traditional waterfall model and iterative development model into a single model. 4+8
2. What do you mean by software project management? Explain the various activities that are carried out during project planning. 4+8
3. ✓ List out the principles of software testing. Explain the top down testing strategy and bottom up testing strategy mentioning their benefits and drawback. 4+8

Group B**Answer SEVEN questions.****7×8=56**

4. ✓ What are the characteristics of software? Explain the dual role of software. 2+6
5. ✓ What do you mean by software design? Explain the software design process in brief. 2+6
6. ✓ Define requirement specification? Explain the requirement validation and requirement management process in brief. 2+6
7. ✓ Define COCOMO) A development project is estimated to be of about 49200 lines of code when complete and is believed to be of medium complexity. Calculate the effort, development time and productivity of the project. 2+6
8. ✓ What are the fundamental concepts of object oriented design? What are the role of UML in object oriented design? 2+6

(2)

9. Define test cases. Differentiate between software verification and software validation. 2+6
10. What is cyclomatic complexity? Explain how the cyclomatic complexity is calculated? 2+6
11. Define software quality and software reliability. Explain the importance of ISO quality standard. 2+6
12. Write short notes on any TWO: 4+4
- (a) Data modeling and flow diagram
 - (b) Metrics for software quality
 - (c) Software Architecture

2015

Bachelor of Computer Application (B. C. A.) / Fifth Semester / *Chance*

Time: 03:00 hrs.

Full Marks: 80 / Pass Marks: 32

BCA301CS: Software Engineering (Old Course)

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Group A

Answer TWO questions.

2×12=24

1. Explain the evolutionary software process model with its merits and demerits. Under what circumstances is it useful to construct an evolutionary software process model? Explain. 6+6
2. Explain the risk management process in software engineering. What are the milestones and deliverables? 8+4
3. What is cyclomatic complexity? Explain how the cyclomatic complexity is computed. Describe the process of top down integration testing and bottom up integration testing. 8+4

Group B

Answer SEVEN questions.

7×8=56

4. What are the characteristics of component base development? Explain the system modeling with example. 4+4
5. Why design is important? Discuss about the interface, architectural and detailed design in brief. 2+6
6. Differentiate between ERD and DFD with suitable example. 4+4
7. Explain why it is necessary to design the system architecture before specifications are written. Explain client server architecture with practical example. 4+4
8. What are the metrics for software quality? Compare between organic and embedded classes of software products as postulates by Boehm. 4+4

(2)

- 8(a) What do you mean by process of modular decomposition? 5**
- (b) Explain cohesion & coupling with example. 5**
- 9(a) What is software Engineering? Discuss professional responsibilities. 5**
- (b) Explain various software design strategies. 5**
- 10. Write short notes on any TWO: 5+5**
- (a) Software Maintenance**
- (b) Documentation**
- (c) Regression testing**

2015**B.E. (Computer) / Seventh Semester / Back****Time: 03:00 hrs.****Full Marks: 80 / Pass Marks: 32****BEG472CO: Software Engineering (Old Course)**

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Group A**Answer EIGHT questions.****8×10=80**

- 1(a) Explain the activities and Objectives of feasibility study and preliminary investigation on system analysis and design. 5
- (b) Discuss in detail waterfall and Boehm's spiral model. 5
- 2(a) Discuss briefly on the system procurement process. 5
- (b) Differentiate between an object and an object class. 5
3. What is system analysis and design? Discuss the objectives of architectural design. 10
4. Why do we need software testing? Justify it. Explain overall software testing mechanism. 10
- 5(a) What factors should be considered for making software with good quality? 5
- (b) What do you understand by availability and software reliability? 5
- 6(a) What are possible software failure and fault? Explain briefly prevention mechanism. 5
- (b) What do you mean by integration testing? 5
7. Draw a context diagram and a Level-0 Data Flow Diagram for the advance booking system of Company and state any assumptions made. 10

(2)

9. - Explain the different types of software testing strategies with example. 8
10. What is computer based system? Explain system engineering process in detail. 2+6
11. Write short notes on any TWO: 4+4
- (a) Object Oriented Design Method
 - (b) CMMI
 - (c) SRS

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2015

Bachelor of Computer Application (B. C. A.)/Fifth Semester/Chance

Time: 03:00 hrs

Full Marks: 80 /Pass Marks: 32

BCA370CO: Software Engineering (New Course)

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Group A**Answer TWO questions.****2×12=24**

1. Explain the software process model with example. 10
2. Why software design is important? Explain different levels of software design process. 4+8
3. Explain why software testing is becoming a sensitive issue in software development life cycle. Discuss Top down and bottom up testing strategies in detail. 4+8

Group B**Answer SEVEN questions.****7×8=56**

4. What are the current trends in Software Engineering? Explain Software Engineering as a layered Technology. 2+6
5. What do you mean by the feasibility study? Differentiate between Functional and Non Functional Requirements. 2+6
6. Why software project management is needed? Software development process is becoming riskier day by day. In this scenario, give your idea to minimize the increasing risk associated with software development. 2+6
7. What is System testing? What are the major differences between functional and non-functional testing? 2+6
8. Define software metrics. Explain project, process and product metrics. 2+6

Contd. ...

(2)

9. Differentiate between cloud computing and grid computing, Explain why Agile development is becoming popular these days. 4+4
10. Explain the different levels of CMMI (Capability Maturity Model Interface). 8
11. Is software reliability is same as software quality? Justify. Explain the importance of software configuration management. 4+4
12. Write short notes on any TWO: 4+4
- (a) RAD model
 - (b) Software measurement
 - (c) Verifications validation

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PURBANCHAL UNIVERSITY

2024

4 Yrs. Bachelor of Computer Application (BCA)/6th Semester

Time: 03:00 hrs.

Full Marks 80 / Pass Marks 32

BCA372CO: Management Information System (Old Course)

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group A

2×12=24

Answer TWO questions.

1. How do you define business process? Distinguish between collaboration and teamwork. Briefly describe the tools that support for linking the intra-organizational and inter-organizational teams. 2+4+6
2. Define MIS with its components. Explain role of information systems in business today and globalization challenges and opportunities in business.
3. Define strategic information system (SIS) and explain how it helps in gaining competitive advantage. Explain barriers in developing strategic information system.

Group B

7×8=56

Answer SEVEN questions.

4. Distinguish between TPS, MIS and DSS.
5. Define IT infrastructure. Explain contemporary hardware and software trends.
6. What are the characteristics of EIS? Explain DSS with its functions.
7. What is cybercrime and what are its kinds? Write about prevailing cyber law in Nepal.
8. Explain the importance of information security in an organization. Describe different security control methods used for information security.
9. What is enterprise application? Explain supply chain management system and customer relationship management system.
10. What is business-value-chain model? Explain the activities involved in this model.
11. Write short notes on Any TWO. 4+4
(a) Disaster recovery plan (b) Business intelligence
(c) Computer literacy vs information literacy

PURBANCHAL UNIVERSITY

2022

Bachelor in Information Technology (B.I.T.)/Seventh Semester / Final

Time: 03:00 hrs.

Full Marks: 80 / Pass Marks: 32

BIT476CO: Management Information System (New Course)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Group A

Answer TWO questions.

2×12=24

- 1/ What is Decision Support System (DSS) and why it is necessary? Explain the components of DSS. 4+8
2. How does Business Information System help organizations achieve their operational, tactical and strategic goals? Briefly explain HRIS and its benefits. 6+6
- 3/ Distinguish between information system and information technology. Explain why information systems are so essential in business today Discuss the features of transaction processing system with the help of suitable example. 2+5+5

Group B

Answer SEVEN questions.

7×8=56

- 4/ What is enterprise system? Explain Supply Chain Management and Customer Relationship Management. 2+6
5. Explain in detail the ethical issues which has to be handled by a MIS Manager.
- 6/ Describe the information systems supporting the major business functions: sales and marketing, finance and accounting.
7. Describe the relationship between TPS, MIS, and ESS.
- 8/ What is purpose of an information system from a business perspective? What role does it play in the business information value chain?

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PURBANCHAL UNIVERSITY

2021

Bachelor in Information Technology (B.I.T.)/Seventh Semester/ Final

Time: 03:00 hrs.

Full Marks: 80 /Pass Marks: 32

BIT476CO: Management Information System (New Course)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Group A

Answer TWO questions.

2×12=24

1. Define with objective of IRM. Explain principles and functions of IRM with proper example. 4+8
2. What is Transaction Processing System and how does it support operational decision making? Explain the six steps in processing a transaction. 6+6
3. Is computer security necessary for organization data? Justify. Explain security with different control method for any organization. 3+9

Group B

Answer SEVEN questions.

7×8=56

4. Define Information System. What are the major components of Information System? 2+6
5. What is neural network? Explain applications and components of ES. 2+6
6. What is virtual corporation? How office automation systems enhance the employee productivity? Explain with example. 2+6
7. Define strategies for developing SIS. Explain characteristics and potential barriers to developing SIS. 2+6
8. What is BIS? Explain quality information system and cross-functional system with an example. 2+6
9. Define GDSS. Explain components and functions of DSS. 2+6

Contd. ...

(2)

10. What are recent technologies in MIS? How information system is transferring business and what are their relationship in globalization? Explain. 2+6
11. Write short notes on any TWO: 4+4
 - (a) E-learning
 - (b) Cyber law
 - (c) Computer Literacy Vs Information Literacy

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2019

Bachelor in Information Technology (B.I.T.) / Seventh Semester / Final

Time: 03:00 hrs.

Full Marks: 80 / Pass Marks: 32

BIT476CO: Management Information System (New Course)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Group A**Answer TWO questions.****2×12=24**

1. Explain the use of MIS in an increasingly competitive business world. Briefly discuss why an organization need different types of information system.
2. What is functional Information System? Briefly discuss the functional areas of business. Why it is necessary to develop cross functional information system?
3. What are type of Computer security Breaches? Explain steps in Developing Disaster Recovery Plan (DRP).

Group B**Answer SEVEN questions.****7×8=56**

4. Explain characteristics of strategic Information System (SIS). Describe the strategies for developing an SIS.
5. What are the major application areas of Expert System? Describe application of Expert System.
6. What is office Automation System? What is the common office Automation System used in corporate Business?
7. What do you understand by Transaction Processing System? Explain briefly the steps in processing a Transaction.
8. Explain the significance of HRM in an organization. Explain what type of resource are managed by HRM
9. What is cyber Law? Explain different types of cyber crime occurring in today's context.

(2)

10. What is e-Governance? How does e-Governance help any state in development activities?
11. Write short notes on any TWO:
 - (a) Neural Network
 - (b) E-Learning
 - (c) Communication technology and internet



2018Bachelor in Information Technology (B.I.T.)/Seventh Semester/*Final*

Time: 03:00 hrs.

Full Marks: 80 /Pass Marks: 32

BIT476CO: Management Information System (New Course)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Group A**Answer TWO questions.****2×12=24**

- 1(a) Why does organization need different type of information system? Explain the various structure of an organization.
- (b) Why do students need to study MIS? Explain.
- 2(a) What are types of Computer Security Breaches? Explain steps in Developing Disaster Recovery Plan (DRP).
- (b) What is Expert System (ES)? Explain components of ES.
3. What is Information Resource System (IRM)? Explain IRM principle and IRM functions.

Group B**Answer EIGHT questions.****8×7=56**

4. Explain the concept of Virtual Corporation. Explain how Information Technology has changed the way of office automation with suitable examples.
5. Explain Virtual Reality, E-Governances and E-Business. Explain Security Controls.
6. Explain application of Expert System (ES). Explain the critical success factor of Expert System.
7. What is Cyber Law of Nepal? Explain types of Cyber Crimes with examples.
8. Explain characteristics of Strategic information System (SIS). Describe the strategies for developing an SIS.

(2)

9. Explain Transaction Processing System (TPS). How does it differ from other information system?
10. Explain types of GDSS. What are the critical success factors of DSS/EIS?
11. Explain the marketing information system with example.
12. What is Management Information System? Explain Information System Vs. information Technology and Computer Literacy Vs. Information Literacy
13. Write short notes on any TWO:
 - (a) Cyber Ethics
 - (b) Financial and Accounting System
 - (c) Cross-Functional System
 - (d) Communication Systems in OAS

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2017

Bachelor in Information Technology (B.I.T.)/Seventh Semester/ *Final*
Time: 03:00 hrs. Full Marks: 80 /Pass Marks: 32

BIT476CO: Management Information System (New Course)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Group A

Answer TWO questions.

2×12=24

1. What are computer security breaches? Explain different types of computer security controls. Explain how hackers create security problems and damage to the information system.
2. Explain DSS and how it differs from Executive Information System. What are the function of DSS and critical factor for the successful implementation of DSS/EIS?
3. What is information system? Define MIS and its objectives. Explain the impact of MIS on various management levels.

Group B

Answer SEVEN questions.

7×8=56

4. What is Office Automation System? What are common Office Automation Systems used in Corporate Business?
5. What are the major application areas of Expert System? Describe advantages and drawbacks of Expert System.
6. Describe about information, Show the differences between Information System and Information Technology.
7. What is Strategic Information System? How do the organization use their SIS for gaining competition advantage?
8. Explain the principles of IRM and key activities of IRM.
9. Compare and contrast E-Business and E-Commerce. How is the e-governance implementation process in Nepal?

(2)

9. What is Cyber Law? Explain the major provisions of Nepal's Cyber Law.
10. What is Functional Information System? What are the differences between Marketing and Manufacturing Information System?
11. Write short notes on any TWO:
 - (a) Virtual Corporation
 - (b) GDSS
 - (c) E-Medicine

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PURBANCHAL UNIVERSITY

2022

Bachelor in Information Technology (B.I.T.)/Seventh Semester/*Final*

Time: 03:00 hrs.

Full Marks: 80 /Pass Marks: 32

BIT475CO: Software Engineering (New Course)

Candidates are required to give their answers in their own words as far as practicable.

Figure in the margin indicate full marks.

Group A

Answer TWO questions.

2×12=24

1. What is the advantage of using prototyping model? Explain different phases involved in prototyping model.
2. What do you mean by the term modularity in the context of software design? Is modularity desirable during software design? Explain that the concept of cohesion and coupling are related to modularity.
3. Explain the meaning of 4 Ps in Software Project Management. What are project estimation techniques? Describe how emerging software risks are handled by risk engineering process.

Group B

Answer SEVEN questions.

7×8=56

4. What is COCOMO? Explain the different methods of estimation using COCOMO model?
5. Explain RAD model with its merits and demerits. Is it different from Waterfall model?
6. Differentiate between Black box and White box testing techniques.
7. Explain few metrics that are used for software quality evaluation? What is ISO 9000 software standard?
8. What is object oriented software engineering? Draw a class diagram for a online shopping system making necessary assumptions.

Contd. ...

(2)

9. "Software Engineer must be able to shift between different levels of abstraction". Justify this statement.
10. What do you mean by requirement engineering process? Explain requirement elicitation in detail.
11. Write short notes on any TWO: 4+4
 - (a) GANTT chart
 - (b) Generic view of software engineering
 - (c) Functional and non-functional requirements

PURBANCHAL UNIVERSITY

2024

4 Yrs. Bachelor of Computer Application (BCA)/6th Semester

Full Marks: 80 / Pass Marks: 32

Time: 03:00 hrs.

BCA372CO: Management Information System (Old Course)

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Group A

2×12=24

Answer TWO questions.

1. How do you define business process? Distinguish between collaboration and teamwork. Briefly describe the tools that support for linking the intra-organizational and inter-organizational teams. 2+4+6
2. Define MIS with its components. Explain role of information systems in business today and globalization challenges and opportunities in business.
3. Define strategic information system (SIS) and explain how it helps in gaining competitive advantage. Explain barriers in developing strategic information system.

Group B

7×8=56

Answer SEVEN questions.

4. Distinguish between TPS, MIS and DSS.
5. Define IT infrastructure. Explain contemporary hardware and software trends.
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7. What is cybercrime and what are its kinds? Write about prevailing cyber law in Nepal.
8. Explain the importance of information security in an organization. Describe different security control methods used for information security.
9. What is enterprise application? Explain supply chain management system and customer relationship management system.
10. What is business-value-chain model? Explain the activities involved in this model.
11. Write short notes on Any TWO: 4+4
(a) Disaster recovery plan
(b) Business intelligence
(c) Computer literacy vs information literacy