# TRIBHUVAN UNIVERSITY FACULTY OF MANAGEMENT

# Office of the Dean

### 2017

Full Marks: 40 Time: 2 hrs.

# BIM / Seventh Semester / IT 226: Management Information System

Candidates are required to answer all the questions in their own words as far as practicable.

# Group "A"

### 1. Brief Answer Questions:

Model Question

 $[10 \times 1 = 10]$ 

- i. What do you mean by information?
- ii. What is Executive Information System?
- iii. What do you mean by bargaining power of customer?
- iv. List OLAP operations.
- v. Who uses TPS?
- vi. What are attributes considered in time dimension of information?
- vii. Define distributed database.
- viii. Write an example of if-else analysis.
- ix. What is agile company?
- x. Give the meaning of value chain.

# Group "B"

### **Short Answer Questions:**

 $5 \times 4 = 201$ 

- 2. How an organization can use MIS in the employee recruitment process.
- 3. Explain data management of the store department of cement factory.
- 4. What is the role of IT for business organization?
- 5. Explain financial management system of college.
- 6. What are the reasons for failure of MIS?

# Group "C"

### Comprehensive Questions:

 $[2 \times 5 = 10]$ 

- 7. How should a business store, access, and distribute data and information about its internal operations and external environment?
- 8. Are the form and use of information and decision support systems for managers and business professionals changing and expanding? Why or why not?

(Note: The students should not limit themselves to the chapters mentioned in this Model Questions as questions can be asked from any chapter (within the syllabus) in the examination.)



# TRIBHUVAN UNIVERSITY FACULTY OF MANAGEMENT

# Office of the Dean

### 2017

Full Marks: 40 Time: 2 hrs.

# BIM / Seventh Semester / IT 227: Object Oriented Analysis and Design

Candidates are required to answer all the questions in their own words as far as practicable.

# Group "A"

#### 1. Brief Answer Questions:

Model Question

 $[10 \times 1 = 10]$ 

- i. What is Class?
- ii. What is use of Use case diagram?
- iii. Give the meaning of actor.
- What is component diagram? iv.
- What is done in the inception phase? v.
- vi. Define design pattern.
- What do you mean by creator? vii.
- viii. Why is sequence diagram created?
- ix. Define activity diagram.
- What do you mean by adapter pattern? х.

### Group "B"

Exercise Problems:  $15 \times 4 = 201$ 

- 2. Write a piece of code to explain singleton pattern.
- 3. What is the advantage of making class low coupled? Explain with example.
- 4. Explain deployment diagram with example.
- 5. Describe controller pattern with a simple code.
- 6. When will you use observer pattern? Explain.

### Group "C"

### Comprehensive Questions:

 $12 \times 5 = 101$ 

- 7. Make a class diagram from given scenario. Employees work in office. Office gets several jobs from outside organizations. Office has categorized its employees as temporary or permanent; permanent employees have provident fund but temporaries don't have. There are four departments in the office. One employee works exactly in only one department and department has 3 to 5 employees.
- 8. There are three different classes: rectangle, square, circle; shapefactory class creates any one of these three mentioned classes as per requirement. Now write full program to demonstrate shapefactory class.

(Note: The students should not limit themselves to the chapters mentioned in this Model Question as questions can be asked from any chapter (within the syllabus) in the examination. Further students can write code in any object-oriented programming language.)

# TRIBHUVAN UNIVERSITY FACULTY OF MANAGEMENT

# Office of the Dean

### 2017

Full Marks: 40 Time: 2 hrs.

# BIM / Seventh Semester / IT 228: Artificial Intelligence

Model Question Candidates are required to answer all the questions in their own words as far as practicable.

# Group "A"

#### 1. Brief Answer Questions:

 $[10 \times 1 = 10]$ 

- i. What is rational agent?
- ii. Define unsupervised learning?
- What is Plateau problem? iii.
- Why search is important in problem solving? iv.
- What do you mean by cross over in genetic algorithm? v.
- vi. Give the meaning of omniscience?
- In what type of situation fuzzy logic can be used? vii.
- viii. In which situation min-max tree is used?
- ix. What is resolution?
- What is predicate logic? х.

# Group "B"

### **Short Answer Questions:**

 $[5 \times 4 = 20]$ 

- 2. Write example to explain Hebbian learning algorithm.
- 3. Write an example to explain crypto-arithmetic.
- 4. Explain MYCIN.
- 5. Give an example to explain case-based reasoning
- Explain goal based agent with example. 6.

# Group "C"

### Comprehensive Questions:

 $12 \times 5 = 101$ 

- 7. John is student of a college. College conducts exam. Students have to appear in exam and pass the exam to get degree. Only hard working students can pass the exam. John is hard working student and appears in exam. Now write First order predicate logic for given statement and check if John passes exam or not using Resolution algorithm.
- 8. Write breadth first algorithm and explain it with example.

(Note: The students should not limit themselves to the chapters mentioned in this Model Questions as questions can be asked from any chapter (within the syllabus) in the examination.)

