

# PURBANCHAL UNIVERSITY

2017

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

Time: 03:00 hrs.

Full Marks: 60 /Pass Marks: 24.

**BIT170CO: Fundamentals of Information Technology (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 computer? List and explain the different components of the computer with its block diagram.
2. What is computer network? Explain different network topologies with its advantages and disadvantages.
3. What are the new technologies used on Information Technology? Explain with examples.

## Group B

**Answer SIX questions.**

**6×6=36**

4. What is operating system? Discuss operating system function in detail.
5. List all the input and output devices and explain keyboard and printer in brief.
6. What is DBMS? What are the different types of DBMS? Explain with example.
7. Describe the different types of multimedia tools.
8. What is computer crime? What are the different types of information protection technique?
9. What is the use of IT in Engineering and Medicine? Explain in details.
10. Explain distributed system with its characteristics.
11. Write short notes on any TWO:  
(a) OLAP                      (b) www                      (c) SRAM

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Figure in the margin indicate full marks.

## Group A

**Answer TWO questions.**

**2×12=24**

- 1(a) What is processor and microprocessor? Explain CPU and memory work. 1+5
- (b) List different types of input and output devices. Describe the factors that quality of monitor depends on. 1+5
- 2(a) What is centralized and distributed data processing? Discuss the advantages and disadvantages of distributed data processing. 2+5
- (b) What is virtual reality? How does multimedia help in achieving virtual reality? 1+4
- 3(a) Is an operating system more important for computer? If Yes/No, give causes. 6
- (b) What is database management system? Why do you need DBMS? Describe. 6

## Group B

**Answer SIX questions.**

**6×6=36**

- 4 What is printer? Write difference between impact and non-impact printer. 1+5
- 5 What is compiler and explain the compilation process? How does compiler differ from interpreter? 1+1+4
6. What is data processing and file processing? Write the difference between sequential and direct access file processing. 1+5

(2)

7. ✓ What do you mean by computer N/W, N/W topology and N/W architecture? Discuss about the two types of N/W architecture. 2+4
8. ✓ List the new technology in information system. Discuss the advantages and uses of data warehouse. 2+4
9. ✓ What do you mean by computer crime? What methods can an organization use to maintain privacy and security of its information? 2+4
10. ✓ Write short notes on any TWO. 3+3
- (a) Working of Hard disc
  - (b) Difference between SRAM and DRAM
  - (c) ✓ Need of modulation.



# PURBANCHAL UNIVERSITY

2011

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

Time: 03:00 hrs.

Full Marks: 60 / Pass Marks: 24

**BIT112CS: Fundamentals of Information Technology**

*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 data warehouse? Explain the advantages of a data warehouse. 2+5
- (b) Illustrate the components of data warehouse. 5
- 2(a) What is a database management system? How can you process the data in data management system? Give reasons. 2+4
- (b) Define communication system. Write down the characteristics of distributed system. 2+4
- 3(a) Why memory is needed in computer? List different types of memory. Illustrate the advantages of secondary storage memory over primary storage memory. 2+1+4
- (b) Discuss the two basic types of RAM. 5

## Group B:

**Answer SIX questions.**

**6×6=36**

4. Illustrate the working principle of hard disk with the help of diagram. 6
5. List the five generations of programming language. Give the differentiates between machine level language and assembly level language. 6
6. Distinguish between internet and intranet with example. 6
7. What is modulation? Why modulation is needed in telecommunication? Discuss. 6

8. What is an e-mail? How does an e-mail work? Describe.
9. Describe the word: Animation, shading, anti-aliasing and morphing in respect to multimedia.
10. What is a data warehouse? Discuss the uses of a data warehouse.
11. Write short notes on any TWO:
  - (a) SRAM and DRAM
  - (b) Function of OS
  - (c) Centralized data processing.



*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 computer network? Discuss about different types of computer networks and topologies for LAN in detail.
2. Differentiate between data processing and database processing. Discuss different types of database management systems in brief.
3. Explain different categories of digital computers and describe major components of a computer in brief.

**Group B****Answer SIX questions.****6×6=36**

4. What are multimedia tools? What is the role of multimedia in entertainment?
5. What is hypermedia and electronic commerce? Explain different types of E-commerce.
6. What is multimedia and virtual reality? Explain in brief.
7. Explain different types of memory units of a digital computer.
8. List out different types of output devices. Discuss about impact and non-impact printers.
9. Explain difference engine and turning machine and discuss Pentium fifth generation computer.
10. Explain data mining and data warehousing.
11. Write short notes on any TWO:  
(a) Information Security                      (b) OLAP  
(c) Communication system



# PURBANCHAL UNIVERSITY

**2013 (New)**

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

Time: 03:00 hrs.

Full Marks: 60 /Pass Marks: 24

**BIT170CO: Fundamentals of Information Technology**

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## Group A

**Answer TWO questions.**

**2×12=24**

1. ✓ Define analog computer and digital computer. What is memory? Explain its types. Explain about third generation of computer with advantages and disadvantages. 3+1+3+5
2. ✓ Justify the statement "internet is network of networks". What is electronic mail? Explain its working mechanism. Explain intranet. 4+2+3+3
3. Define E-commerce, data mart and data mining. Explain hypermedia and its importance. 3+3+3+3

## Group B

**Answer SIX questions.**

**6×6=36**

4. ✓ Explain Turing machine, microprocessor and VLSI in detail. 6
5. ✓ What is utility software? Explain programming language and packaged software, clearly. 6
6. What is data management system? Explain different types of database management system in briefly. 6
7. What is telecommunication? Explain basic requirements for telecommunication. 6
8. Explain multimedia tools and virtual reality. Why virtual reality is necessary for new technology? 6

9. Explain the application of computer in business and industry, medicine and engineering. 6
10. Explain cyber-crime and cyber law of Nepal. 6
11. Write short notes on any TWO: 3+3
- (a) Auxiliary storage devices
  - (b) OLAP
  - (c) Distributed system





# PURBANCHAL UNIVERSITY

**2014 (New)**

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

Time: 03:00 hrs.

Full Marks: 60 /Pass Marks: 24

**BIT170CO: Fundamentals of Information Technology**

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## Group A

**Answer TWO questions.**

**2×12=24**

1. What do you mean by computer? What are the application area of computer? Explain in details.
2. What is computer network? Explain the different types of computer network on the basis of scope.
3. What do you mean by data warehousing and data-mining? How the data-warehouse functions?

## Group B

**Answer SIX questions.**

**6×6=36**

4. What is OS? List and explain the functions of OS.
5. What are the advantages of Packet switching over circuit switching?
6. What is DBMS? Explain about the network database model
7. What do you mean by e-commerce? What are the different types of e-business model?
8. What is information security and cyber law? Explain.
9. What is the use of IT in business and industry? Explain in details.
10. What is memory? The system contains primary memory although we need secondary memory? Justify your answer.
11. Write short notes on (Any two):  
(a) OLAP                      (b) Hyper Media                      (c) Output devices

# PURBANCHAL UNIVERSITY

**2015**

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

Time: 03:00 hrs.

Full Marks: 60 /Pass Marks: 24

**BIT170CO: Fundamentals of Information Technology (New Course)**

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## Group A

**Answer TWO questions.**

**2×12=24**

- 1(a) What is peripheral device? List-out the different categories of peripheral devices. Describe the working of CRT-monitor and working of mechanical house. 1+1+3+3
- (b) Define impact and non-impact printer with example. Describe working of Laser-Printer. 4
- 2(a) What is modulation? Describe the different types of modulation and also write the need for modulation. 1+3+3
- (b) What is distributed data processing? Illustrate the advantages of distributed data processing. 1+4
3. What are the five-generation of programming languages? Discuss the advantages and disadvantages of assembly language and high-level language. 12

## Group B

**Answer SIX questions.**

**6×6=36**

4. What are the major functions of a computer? Explain how the CPU and memory works?
5. Define an OS and describe the different types of OS.
6. What is a database? List out the different classification of DBMS and also describe about relational database management system.
7. What is computer network? Discuss the classification of computer network based on the geographical area.



(2)

8. ✓ What is protocol? List the different types of protocol. Explain the working principle of FTP.
9. ✓ What is multimedia system? Discuss the application of multimedia in respect to information representation. 1+5
10. ✓ Explain business to business e-commerce with their advantages. 6
11. ✓ Write short notes on any TWO: 2×3=6
- (a) OLAP
  - (b) Electronic Mail
  - (c) Auxiliary storage devices

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

Time: 03:00 hrs.

Full Marks: 60 /Pass Marks: 24

**BIT170CO: Fundamentals of Information Technology (New Course)**

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## Group A

**Answer TWO questions.**

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- (b) What is virtual reality? How does multimedia help in achieving virtual reality? 1+4
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## Group B

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**6×6=36**

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5. List all the input and output devices and explain keyboard and printer in brief.
6. What is DBMS? What are the different types of DBMS? Explain with example.
7. Describe the different types of multimedia tools.
8. What is computer crime? What are the different types of information protection technique?
9. What is the use of IT in Engineering and Medicine? Explain in details.
10. Explain distributed system with its characteristics.
11. Write short notes on any TWO:  
(a) OLAP                      (b) www                      (c) SRAM



**PURBANCHAL UNIVERSITY****Time-bound Home Exam 2020**

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

Time: 03:00 hrs. (+2 Hrs. for Submission)

Full Marks: 60 /Pass Marks: 24

**BIT170CO: Fundamentals of Information Technology (New Course)****Instructions:***Dear Students!*

- This model of examination is for you as the end of your current semester. This examination allows you to write answer from your own place of residence. Follow the following instructions without fail.
- Do not write your name in the answer-sheet(s)
- All the answer-sheets should be sent to college through your approved email in which you have received your question paper.
- Do not write questions in the answer-sheet but mention clearly the question number.
- All the scan/photos of answer-sheets should be clearly visible. Any blur scan/photo will not be considered for evaluation. Responsibility lies with the students to make sure that scan/photos of the answer-sheet are of readable quality.
- Leave 1 inch margin on each side of the answer-sheet.
- Clearly mention your Roll no, subject, program, semester, page number at the right-top of each page as instructed by the Office of the Examination Management.
- Make sure that you send your answer-sheets within the given time. Any email received after the given time will not be acceptable.
- You are strictly advised to write with your own handwriting and that you are not using any unfair means to answer the questions.
- Do not consult during the examination period to any other person in answering the questions.
- Do not post any pictures of taking examination or your answer-sheets in any social-media. Found that may be taken action from University.

Figure in the margin indicate full marks.

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

1. Classify computers on the basis of size and functionality. 8+4
2. Define internet and intranet. What is computer network? Explain the types of network. 5+7
- 3(a) What are storage devices? Explain any two primary storage devices. 6
- (b) Write down the features of 3<sup>rd</sup> and 4<sup>th</sup> generation computers. 6

**Group B****Answer SIX questions.****6×6=36**

4. What are input and output device? Explain printer in details.
5. What is database management system? Write down its characteristics.
6. What do you mean by multimedia? What are the multimedia tools?
7. Why OS is known as master control program? Explain the application of computer in the field of engineering and technology.
8. What do you mean by information security? Write about some prevailing crimes in IT.
9. What is e-commerce? Explain OLAP.
10. Write short notes on any TWO: 3+3
  - (a) Virtual Reality
  - (b) Distributed system
  - (c) Electronic mail

