



Council for Technical Education and Vocational Training

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Back/Scholarship Exam – 2081 Chaitra/Baishakh

Program: Engineering All

Full Marks: 40

Year/Part: I/I (2021) © Arjun

Pass Marks: 16

Subject: Computer Application

Time: 1½ hrs.

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



[www.arjun00.com.np](http://www.arjun00.com.np)

Attempt any **FIVE** questions.

1. a. Draw an architecture of computer. Explain the ALU, CU and I/O devices. [5]  
b. Differentiate between 3<sup>rd</sup> generation and 4<sup>th</sup> generation computer. [3]
2. Define operating system. Explain briefly the types of OS. [2+4+2]  
Write any four DOS commands with their functions.
3. Write the features of spreadsheet package. List out any four MS-Excel formulae with their syntax and uses. [4+4]
4. Define internet and network. Explain the networking devices HUB, switch and router. [3+5]
5. a. How can we get protected from computer viruses? [3]  
b. Describe about various cables used in computer networking? [5]
6. Write short notes on: (any **TWO**) [2×4]
  - a. Multimedia
  - b. Flat panel monitors
  - c. Types of software

Good Luck !



Council for Technical Education and Vocational Training  
**Office of the Controller of Examinations**  
Sanothimi, Bhaktapur

**Regular/Back/Scholarship Exam - 2080/2081, Chaitra/Baishakh**

**Program: Diploma in Engineering All**

**Full Marks: 40**

**Year/Part: I/I (2021)**

**Pass Marks: 16**

**Subject: Computer Application**

**Time: 1 hr. 30 min.**

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



[www.arjun00.com.np](http://www.arjun00.com.np)

**Attempt any FIVE questions.**

1. a. What is computer generation? Write the features of fifth generation of computers. [4]  
b. Differentiate SRAM and DRAM. [4]
2. What is digital computer? Draw the block diagram of computer and write the different types of computer according to function/processing. Describe any one of them. [2+2+2+2]
3. a. Write the differences between CUI and GUI. [3]  
b. Explain MS-DOS system files. [5]
4. What is database management system? Discuss about the features of presentation package. [2+6]
5. a. What is topology? Write the different types of topology. Explain any two of them. [4]  
b. Define hub, switch, modern and router. [4]
6. Write short notes on: (any TWO) [2×4]
  - a. Computer virus
  - b. CRT monitor
  - c. Linux

**Good Luck !**



*Council for Technical Education and Vocational Training*

**Office of the Controller of Examinations**

Sanothimi, Bhaktapur

**Regular/Back/Scholarship Exam-2080, Baishakh / Jestha**

**Program: Engineering All**

**Full Marks: 40**

**Year/Part: I/I (2021)**

**Pass Marks: 16**

**Subject: Computer Application**

**Time: 1 hrs. 30min**

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

**Website:- [www.arjun00.com.np](http://www.arjun00.com.np)**

**Attempt Any Five questions.**

**[5 x 8 = 40]**

1. What is computer? Draw the block diagram and explain about digital computer. [2+6]
2. i) What is primary memory? Explain about ROM and its types in brief. [2+2]  
ii) What is CPU? Explain with its internal diagram. [2+2]
3. Explain the types of operating system. Describe the function of operating system. [4+4]
4. Define database management system. Point out the features of word processor. [2+6]
5. How do we remove viruses from PC? What are the characteristics of computer virus? Calculate how many bytes are there in 128Gb of Solid State Drive (SSD). [1+3+4]
6. Write short notes on: (Any Two) [2x4=8]
  - a) Linux
  - b) Flash Memory
  - c) Switch

***Good Luck!***

Website :-<https://www.arjun00.com.np>

Council for Technical Education and Vocational Training

**Office of the Controller of Examinations**

Sanothimi, Bhaktapur

**Regular Exam-2079, Ashad**

**Program: Diploma in Engineering All**

**Full Marks: 40**

**Year/Part: III (2021 New Course)**

**Pass Marks: 16**

**Subject: Computer Application**

**Time: 1.5 hrs**

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

**Attempt Any Five questions.**

**Website:- [www.arjun00.com.np](http://www.arjun00.com.np)**

1. a) What is computer software? Describe the system software in brief. [2+2]  
Website :-<https://www.arjun00.com.np>  
b) Differentiate between 3<sup>rd</sup> and 4<sup>th</sup> generation computer with examples. [4]
2. a) Draw a neat block diagram of a digital computer and explain how data is processed in a computer. [4]  
b) What is memory?. Write the differences between RAM and ROM. [4]  
Website :-<https://www.arjun00.com.np>
3. a) Describe the functions of operating system. [4]  
b) Write any four internal DOS commands and its function. [4]
4. a) Differentiate between HUB and Switch. [4]  
b) Discuss about various cables used in networking. [4]  
Website :-<https://www.arjun00.com.np>
5. a) Write the features of spreadsheet package. [4]  
b) What is computer Viruses? Write the different technique to remove the computer viruses from the computer. [4]
6. Write short notes on : **(Any Two)** [2x4=8]
  - i) Web browser
  - ii) CRT
  - iii) Harddisk
  - iv) Topology

**Good Luck !**

Website :-<https://www.arjun00.com.np>



Website :- <https://www.arjun00.com.np>

Council for Technical Education and Vocational Training  
**Office of the Controller of Examinations**  
Sanothimi, Bhaktapur

**Regular/Back Exam-2078, Magh/Falgun (Schlorship+Regular)**

**Program:** Diploma in Geomatics/Civil/Hydro/ Architecture Engg. **Full Marks: 40**

**Year/Part:** I/II (2018, 2013, 2017, 2014) **Pass Marks: 16**

**Subject:** Computer Application **Time: 1.5 hrs.**

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

**Website:- [www.arjun00.com.np](http://www.arjun00.com.np)**

**Attempt Any Four questions.**

1. a) Differentiate between computer Hardware and Software. [5]  
b) Draw a well labelled block diagram of digital computer. [5]
2. a) What do you mean by an Operating System? What are its functions? [2+3]  
b) Differentiate between GUI and CLI with examples. [5]
3. a) Differentiate between a word processing package and a spreadsheet package. Why do we use MS Powerpoint? [3+2]  
b) Define Database. Explain DBMS. [1+4]
4. a) Define computer virus. List its removal techniques. [1+4]  
b) Explain the concept of client and server with a suitable figure. [2+3]
5. Write short notes on: **(Any Five)** [5x2=10]
  - i) NIC
  - ii) LAN
  - iii) Disk Operating System
  - iv) Web Browsers
  - v) Auxiliary Memory
  - vi) Optical Storage

**Good Luck !**

Website :- <https://www.arjun00.com.np>

Website :- <https://www.arjun00.com.np>

Council for Technical Education and Vocational Training  
**Office of the Controller of Examinations**

Sanothimi, Bhaktapur

**Regular/Back Exam- 2077, Mangsir (Special Scholarship)**

**Program: Diploma in Civil Engineering**

**Full Mark: 40**

**Year/Part: I/II (2013)**

**Pass Mark: 16**

**Subject: Computer Application**

**Time: 1.5 hrs.**

Website :- <https://www.arjun00.com.np>

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

Website:- [www.arjun00.com.np](http://www.arjun00.com.np)

**Attempt All questions.**

1. Write down importance and uses of operating system. Explain any two of its functions. [4+4]
2. Explain various generations of computers with their technologies and characteristics. [8]
3. Draw block diagram of digital computer and explain memory in brief. [8]
4. What is spreadsheet package? Describe the features of spreadsheet package. [8]

Website :- <https://www.arjun00.com.np>

Or

Explain various topologies used in computer Networking.

5. Write short notes on: (Any Two) [2x4=8]
  - a) Multimedia
  - b) Internet and Email
  - c) Monitor
  - d) Impact and Non-impact printers.

**Good Luck!**

Website :- <https://www.arjun00.com.np>

## COMPUTER APPLICATION

Examination 2078 R/B

Time:  $1\frac{1}{2}$  hrs.

Website:- [www.arjun00.com.np](http://www.arjun00.com.np)

Full marks: 40

Pass marks: 16

*Candidates are required to give their answers in their own words as far as practicable.  
Attempt any Five questions.*

1. Differentiate between analog and digital computer. List out the features of computer. [6+2]
2. Explain the major block diagram of a digital computer. [8]
3. What is operating system? Write down the function of operating system in brief. Difference between RAM and ROM. [1+3+4]
4. Explain client server concept in networking. Explain different types of network topologies with diagram. [4+4]
5. Explain database management system. What are the features of MS excel in engineering field. [3+5]
6. Write short notes on: (any Two) [2×4]
  - a) Generation of computer
  - b) Storage device
  - c) Advantages of email and internet
  - d) Computer virus and its precaution



## COMPUTER APPLICATION

Examination 2077 R/B

Full marks: 40

Time:  $1\frac{1}{2}$  hrs.

Website:- [www.arjun00.com.np](http://www.arjun00.com.np)

Pass marks: 16

*Candidates are required to give their answers in their own words as far as practicable.  
Attempt any Five questions.*

1. a) Define hardware and software. Explain various input devices briefly. [1+1+3]  
b) Explain RAM and ROM and their sub types. [5]
2. a) Explain file management and memory management by operation system. [2.5+2.5]  
b) Explain about Microsoft excel in brief with example. [5]
3. a) Define network topology. Explain any two LAN topologies. [1+4]  
b) Why internet is needed in present context of day to day life? [3+1+1]  
Explain client and server concept.
4. a) Explain LINUX. Why it is known as open source operating system? [3+2]  
b) Define database management system. Explain about LAN and WAN in detail. [2+1.5+1.5]
5. Write short notes on: (any Four) [4×2.5]
  - a) Antivirus programs
  - b) Microsoft power point
  - c) Central processing unit
  - d) MS-DOS internal commands
  - e) Auxiliary storage devices



# COMPUTER APPLICATION

Examination 2076 R/B

Time:  $1\frac{1}{2}$  hrs.

Website:- [www.arjun00.com.np](http://www.arjun00.com.np)

Full marks: 40

Pass marks: 16

Candidates are required to give their answers in their own words as far as practicable.  
Attempt any Five questions.

1. a) What is computer? Explain the characteristics of computer. [5]  
b) Describe the different generation of computer. [5]
2. a) Explain input and output devices [5]  
b) Explain importance and use of operating system (OS). [5]
3. a) Explain word processing package and its features? [5]  
b) Explain the following DOS commands: [5]  
i) DIR ii) RD iii) CD  
iv) MSAV v) COPYCAN
4. a) Explain briefly about LAN, MAN and WAN. [5]  
b) What is computer virus? What are the major points we have to keep in mind to prevent programs and data from virus infections? [5]
5. Write short notes on: (any Two) [2×4]  
a) Microsoft Excel  
b) Database management package  
c) Internal and external commands of MS-DOS

# COMPUTER APPLICATION

Examination 2074 R/B

Time:  $1\frac{1}{2}$  hrs.

Website:- [www.arjun00.com.np](http://www.arjun00.com.np)

Full marks: 40

Pass marks: 16

*Candidates are required to give their answers in their own words as far as practicable.  
Attempt any Five questions.*

1. Classify the computer on the basis of use, capacity and operation. [8]
2. Draw clear block diagram of a computer system and explain each block with its function. [8]
3. State the function of OS. [8]
4. Explain the features of different database packages along with its uses. [8]
5. Describe the operating principles of CD-R/W. Also clear the concept of backup. [8]
6. Write short notes on: (any Two) [2×4]
  - a) Scanner
  - b) Internet
  - c) Compiler



# COMPUTER APPLICATION

Examination 2074 R/B  
Special Scholarship

Time:  $1\frac{1}{2}$  hrs.

Website:- [www.arjun00.com.np](http://www.arjun00.com.np)

Full marks: 40  
Pass marks: 16

1. Write brief history of computers. Differentiate between computer hardware and software. [3+5]
2. Define operating system. Explain about windows operating system briefly. [2+6]
3. List out different input and output devices with their functions. [8]
4. Define database management system. Explain about memory management by operating system. [2+6]
5. List the various application packages. Explain briefly about LAN, MAN, WWW and WAN. [2+6]
6. Write short notes on: (any Two) [2×4]
  - a) Email/internet
  - b) Computer virus and antivirus programs
  - c) CPU
  - d) Microsoft PowerPoint

## COMPUTER APPLICATION

Examination 2073 R/B

Time:  $1\frac{1}{2}$  hrs.

Website:- [www.arjun00.com.np](http://www.arjun00.com.np)

Full marks: 40

Pass marks: 16

*Candidates are required to give their answers in their own words as far as practicable.  
Attempt any Five questions.*

1. Define computer. Draw and explain the block diagram of a digital computer. [2+6]
2. What do you mean by CPU? List the various input and out devices. Explain the function of keyboard. [2+4+2]
3. What are the types of operating system? Describe about file management by operating system. [2+6]
4. Define database management system. Explain about spreadsheet package and word processing package. [2+6]
5. What do you mean by computer virus? Explain about network topologies. [2+6]
6. Write short notes on: (any Two) [4×2]
  - a) WAN
  - b) Memory unit
  - c) Network cabling
  - d) Graphial user interface



# COMPUTER APPLICATION

Examination 2072 R/B

Time:  $1\frac{1}{2}$  hrs.

Website:- [www.arjun00.com.np](http://www.arjun00.com.np)

Full marks: 40

Pass marks: 16

*Candidates are required to give their answers in their own words as far as practicable.  
Attempt any Five questions.*

1. Explain about history, generation and types of computer in detail. [2+4+2]
2. What is input, output and auxiliary memory devices, explain in detail with examples. [4+4]
3. What are the functions and importance of operating system (O.S.). Also explain about its types. [3+3+2]
4. Explain about word processing package and spreadsheet package on windows O.S. [4+4]
5. What are utility programs, explain in detail. What are computer virus and its removal programs? Explain with examples. [4+2+2]
6. What are network topologies and protocols? Define Hub switch and modem. [5+3]
7. Write short notes on: (any Two)
  - a) Central processing unit (CPU)
  - b) Search engines
  - c) Internet and world wide web

# COMPUTER APPLICATION

Examination 2070 Back

Full marks: 40

Time:  $1\frac{1}{2}$  hrs.

Website:- [www.arjun00.com.np](http://www.arjun00.com.np)

Pass marks: 16

*Candidates are required to give their answers in their own words as far as practicable.  
Attempt any Four questions.*

1. Explain analog and digital computer with example. Discuss the generation of computer in brief. [5+5]
2. Define computer hardware and software. Explain types of software. [5+5]
3. What is memory? Explain RAM and ROM with their types. [2+8]
4. What is operating system? Explain briefly operating system. [2+8]
5. Write short notes on: (any Five)
  - a) System files
  - b) Topology
  - c) Database package
  - d) Protocol
  - e) Email and internet
  - f) Unix



# COMPUTER APPLICATION

Examination 2070 R/B

Time:  $1\frac{1}{2}$  hrs.

Website:- [www.arjun00.com.np](http://www.arjun00.com.np)

Full marks: 40

Pass marks: 16

*Candidates are required to give their answers in their own words as far as practicable.  
Attempt any Four questions.*

1. Define computer. Explain different types of computers on the basis of its work. [5+5]
2. Differentiate between computer hardware and software. Explain the major building blocks of a digital computer. [5+5]
3. What is memory? Differentiate between RAM and ROM. [4+6]
4. What is operating system? Explain major functions of an operating system. [2+8]
5. Write short notes on: (any Five)
  - a) Super computer
  - b) Command.com
  - c) Email and internet
  - d) Database
  - e) Word processor
  - f) Unix

# COMPUTER APPLICATION

Examination 2067 Mangshir

Full marks: 40

Time:  $1\frac{1}{2}$  hrs.

Website:- [www.arjun00.com.np](http://www.arjun00.com.np)

Pass marks: 16

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

Attempt Any Four questions.

1. a) What is computer? Write down the features of computer. [2+3]  
b) Explain about third and fourth generation of computer. [5]
2. a) Define input and output peripherals. Explain any three output peripherals. [2+3]  
b) Define term computer memory. Differentiate between RAM and ROM. [2+3]
3. a) Why operating system is called interface between user and computer? Compare and contrast between packaged and tailored software. [2+3]  
b) Write down the significance of command.com, autoexec.bat and config.sys files in DOS. [5]
4. a) Write down the use of given commands with syntax.  
i) MD                      ii) COPY CON                      iii) TYPE  
iv) DATE                      v) DEL  
b) How do viruses attack the computer? How can we remove it? Explain. [5]
5. Write short notes on (any Two): [2×5]  
a) Word processing package                      b) CPU  
c) History of computer in Nepal

# Old - Question Bank

## COMPUTER APPLICATION

Examination 2066

Full marks: 40

Time:  $1\frac{1}{2}$  hrs.

Website:- [www.arjun00.com.nps](http://www.arjun00.com.nps) marks: 16

*Candidates are required to give their answers in their own words as far as practicable.  
Attempt Any Five questions.*

1. Draw a neat diagram of functional components of a computer and explain each part in brief. [2+6=8]
2. Define computer software and hardware. Describe about input unit, processing unit and output unit. [2+6=8]
3. What is memory? Write down the differences between RAM and ROM. [2+6=8]
4. What are the functions of operating system? Describe each of them in brief. [3+5=8]
5. Define the term virus. Name any four types of viruses. Write any four destructive activities of viruses and also mention any four precautions to avoid viruses. [4+4=8]
6. Write short notes on (any Two): [2×4=8]
  - a) Internal and external commands of DOS
  - b) AUTOEXEC.BAT
  - c) Hard disk drive
  - d) System files