

## 9. Computer Education

### Specification Grid (Theory Part)

Full Mark : 50

**Time : 1:30 Hours**

S.N.	Area	Topics	No. of Questions	Types of Questions			
				knowledge Base	Skill	Low Ability	High Ability
1.	<b>Fundamental Knowledge &amp; Skill Computer</b>	<ul style="list-style-type: none"> <li>• Introduction of computer</li> <li>• Introduction of Hardware</li> <li>• Introduction of Software</li> <li>• Input and output devices</li> <li>• Storage Devices</li> <li>• Introduction of word</li> <li>• Introduction of Spread sheet</li> <li>• Introduction of Presentation package</li> </ul>	b\w	1	1	1	1
2.	<b>ICT, Ethics and Cyber Laws</b>	<ul style="list-style-type: none"> <li>• Concept ICT technology</li> <li>• Computer Ethics and cyber law</li> </ul>	2	1		1	
		<ul style="list-style-type: none"> <li>• Computer virus, remedy and protection</li> <li>• Introduction data communication and Network</li> <li>• Introduction of Web design</li> <li>• Use of Website, Internet and Email</li> </ul>					
3.	<b>Number system</b>	<ul style="list-style-type: none"> <li>• Decimal to Binary and Vice versa</li> <li>• Binary calculation : addition &amp; Multiplication</li> </ul>	1		1		
4.	<b>Computer Graphics</b>	<ul style="list-style-type: none"> <li>• Introduction of Computer Graphics</li> <li>• Usages of Computer Graphics in various field</li> </ul>	2	1	1		
5.	<b>Concept of Computer Programming</b>	<ul style="list-style-type: none"> <li>• Basic concept of computer programming</li> </ul>	1				1
<b>Total</b>			<b>10</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>

**For Practical Exam**

**Full Marks: 50**

**Time: 1.00 hrs.**

S.N.	Area	Topics	No. of Questions	Marks
1	Fundamental knowledge and skill of Computer	<ul style="list-style-type: none"> <li>• Creating document by following instructions</li> <li>• Create four different types of data and show in chart</li> <li>• Insert given data according to instruction</li> <li>• To create four Power Point slides and presentation</li> </ul>	1	25
2	Computer Graphics	<ul style="list-style-type: none"> <li>• Develop simple Web page using HTML Tags</li> <li>• Develop four colour Book Design</li> </ul>	1	25

# New Model Questions, 2071

**(Based on New Curriculum & Specification Grid)**

## Computer Education

Class: 8

Full marks: 50

**All questions are compulsory.****Very Short Questions**

10

Answer the following questions:

- |   |         |
|---|---------|
| 1. Who is known as father of computer?                    | 1       |
| 2. What is the name of first electro-mechanical computer? | 1       |
| 3. Which network is known as network of networks?         | 1       |
| 4. What do you called the first page of website?          | 1       |
| 5. In which number system do the digital computer work?   | 1       |
| 6. How many numbers in binary number system? Write it.    | 1       |
| 7. Write down the any two photo editing software.         | 1       |
| 8. What types of multimedia? Write.                       | 1       |
| 9. Write the full name                                    | 4x0.5=2 |
| i) W.W.W.   |         |
| ii) G.U.I.  |         |
| iii) U.N.I.V.A.C.   |         |
| iv) Ms-Word   |         |

**Short Questions**

7x4=28

- |  |   |
|--|---|
| 1. Write is an I.P.O. cycle? Describe with figure.           | 4 |
| 2. List out the components of Ms-Excels.                     | 4 |
| 3. Write down the any five provision of cyber Ethic.         | 4 |
| 4. List out the devices requirement to connect the internet. | 4 |
| 5. Write the features of Page Layout.                        | 4 |
| 6. Write the short notes on                                  | 4 |
| i) (Photoshop)   |   |
| ii) (Adobe Indesign)   |   |
| 7. Convert decimal number into binary numbers                | 4 |
| i) 75  |   |
| ii) 100  |   |
| (Binary add)   |   |
| i) $101_2 + 111_2$   |   |
| ii) $111_2 + 100_2$  |   |

**Long Questions**

2x6=12

- What is a flow chart? Draw the symbols used in flow chart and write its work.
- What is an operating system? Write its types and describe brief

## Chapter-wise Questions Collection

### Unit 1: Fundamental Knowledge & Skill Computer

#### Very Short Questions

[1 Mark Each]

1. What is meant by Computer?
2. What is Computer Science?
3. Define the term data.
4. What do you know about instruction?
5. Define information clearly.
6. Define the term "computer literacy".
7. What does GIGO (Garbage In Garbage Out) mean?
8. Who is known as first programmer?
9. What do you know about program?
10. How many vacuum tubes were used in first electronics computer?
11. Who is known as father of computer?
12. Give any two examples of word processing package.
13. Define the term software with any two examples.
14. Define the term hardware with any two examples.
15. For what purpose presentation package is used ?
16. For what purpose spreadsheet package is used?
17. Give any two examples of operating system.
18. What is memory?
19. List the types of primary memory.
20. For what purpose pen drive is used?
21. Name the components of computer system.
22. Differentiate between primary and secondary memory.
23. What does BIT stand for?
24. List the name of any four input devices.
25. Name the component used in fourth generation of computer.

#### Short Questions

[4 Marks Each]

26. Mention any two advantages and disadvantages of computer respectively.
27. What is an IPO Cycle? Explain with examples.
28. Why computer is known as diligent machine? Explain.
29. Why computer is known as versatile device? Explain with examples.
30. Explain any two features of computer as you know.
31. Why Charles Babbage is known as "father of computer"? Explain.
32. Differentiate between hardware and software with any two examples of each.
33. What is generation of computer? List the generation of computer with devices used.
34. Write any four features of second generation of computer.
35. Write down any four features of spreadsheet package.
36. What are the advantages of word processing package?
37. Differentiate between digital and analog computer.
38. What are the features of super computer?
39. What are application area of micro computers?
40. What are meant by IBM PC and IBM Compatible Computer?
41. Classify the computer on the basis operation and explain any one of them briefly.
42. Differentiate between application and a system software.
43. What do you know about GUI and CUI based OS? Explain.

## **Long Questions**

[6 Marks Each]

52. List out the characteristics of a computer. Explain each of them briefly.
  53. Explain different generation of computer briefly.
  54. Classify the computer on the basis of brand. Explain each of them briefly.
  55. What is a software? Explain the types of software with examples.
  56. What is a computer system? Explain the components of a computer system
  57. What do you know about computer memory? Explain different types of memory briefly.

## **Unit 2: ICT, Ethics and Cyber Laws**

## **Very Short Questions**

**[1 Mark Each]**

1. What is data communication?
  2. What is meant by index page?
  3. What do you know about Home Page?
  4. Define the term web page and web site.
  5. What is web browser?
  6. Give any four examples of web browser.
  7. Give any two examples of search engine.
  8. What is called network of network?
  9. Define computer network.
  10. Write the example of LAN.
  11. Give example of WAN.
  12. What do you mean by markup language?
  13. Define the term Internet.
  14. What is meant by E-mail?
  15. Give any two examples of social networking site.
  16. What is meant by computer antivirus?
  17. Define the term tag in HTML.
  18. What is meant by web chat?
  19. Define cyber law.
  20. Define the term Computer Ethics.
  21. What does URL mean?

### **Short Questions**

**[4 Marks Each]**

22. Mention the advantages of computer network.
  23. Explain the uses of Internet.
  24. List the disadvantages of Internet.
  25. What are the requirements to connect the Internet?
  26. Mention the advantages of Email.
  27. Explain the importance of social network in present days.

28. Write down the symptoms of computer virus.
29. Write the precautions to protect the computer from virus.
30. List the causes of making virus.
31. How does virus transfer from one computer to another?
32. Mention any five points of Computer Ethics
33. List the features of LAN.
34. What is transmission media? Explain its type with examples.
35. Define the term antivirus and give any three examples of it.
36. Write down the structure of HTML. Explain clearly.
37. Explain different types of HTML tag..
38. Mention any two advantages and disadvantages of bus topology respectively.
39. What is topology? Sketch drawing of star topology.
40. What is network? Classify its type and explain any one type of it.
41. Write down any two advantages and disadvantages of star topology.

**Long Questions**

**[6 Marks Each]**

42. Define the term computer network. Explain different types of computer network with examples.
43. Explain different types of topologies with their merits and demerits.
44. What are the services provided by the Internet? Explain briefly.
45. Differentiate between LAN and WAN.

**Unit 3: Number system**

**Very Short Questions**

**[1 Mark Each]**

1. What is a number system?
2. What is the base of decimal number system?
3. What is the range of the value of octal number system?
4. Which digits are known as binary digit?
5. What is hexa-decimal number system?
6. Which number system is also known as denary number system?

**Short Question**

**[4 Marks Each]**

7. Explain different types of number system with examples.

**Mathematical calculations:**

8. A. Convert Binary to Decimal number system.  
a.  $(1101)_2$       b.  $(101101)_2$       c.  $(00110)_2$       d.  $(11100)_2$
9. Perform the following decimal number into binary number.  
a.  $(43)_{10}$       b.  $(450)_{10}$       c.  $(65)_{10}$
10. Convert octal to decimal number.  
a.  $(764)_8$       b.  $(7470)_8$       c.  $(246)_8$
11. Convert decimal to octal number.  
a.  $(70)_{10}$       b.  $(165)_{10}$
12. Convert binary to octal  
a.  $(11101)_2$       b.  $(1010110)_2$
13. Convert octal to binary equivalent.  
a.  $(7341)_8$       b.  $(765)_8$
14. Convert hexadecimal to decimal number.  
a.  $(2A7)_{16}$       b.  $(2AC)_{16}$
15. Convert decimal to hexadecimal number.  
a.  $(684)_{10}$       b.  $(679)_{10}$

16. Convert hexadecimal to binary number.  
 a.  $(CAFÉ)_{16}$       b.  $(FACED)_{16}$       c.  $(5A7)_{16}$
17. Convert binary to hexadecimal number.  
 a.  $(11011)_2$       b.  $(111001)_2$
18. Convert from hexadecimal to octal number.  
 a.  $(5A3)_{16}$       b.  $(67B)_{16}$
19. Convert octal to hexadecimal number.  
 a.  $(7470)_8$       b.  $(764)_8$
20. Convert as indicated.  
 a.  $(7341)_8$  into binary      b.  $(684)_{10}$  into hexadecimal
21. Perform binary addition:  
 a.  $110 + 10$       b.  $101101 + 1001$       c.  $1011 + 0111$
22. Perform the binary subtraction  
 a.  $1101 - 111$       b.  $10101 - 1010$       c.  $1010 - 100$       d.  $1001 - 101$
23. Perform the binary multiplication:  
 a.  $(10101)_2 \times (110)_2$       b.  $(11)_2 \times (11)_2$       c.  $(1011)_2 \times (11)_2$       d.  $(1010)_2 \times (101)_2$
24. Perform the following binary calculations.  
 a.  $10010 + 111 + 1000$       b.  $11011 + 11101 \times 11$       c.  $10101 - 101 + 1000$

## Unit 4: Computer Graphics

### Very Short Questions

[1 Mark Each]

1. What is computer graphics?
2. Name any two photo editing software.
3. Explain the importance of computer graphics in web page design.
4. Is computer graphics software used for making cartoon?
5. Define the term "computer animation".

### Short Question

[4 Marks Each]

6. Explain the uses of computer graphics in desktop publishing.

### Long Question

[6 Marks Each]

7. Explain the uses of computer graphics in different area.

## Unit 5: Concept of Computer Programming

### Long Questions

[6 Marks Each]

1. Define the term program. Explain computer programming with examples.
2. What is a flowchart? List the symbols used to draw flowchart.
3. What are the advantages and disadvantages of flowchart?
4. Define the term algorithm. Mention the advantages of it.
5. Write the algorithm and draw a flowchart to display the greatest number among any two different numbers.
6. Write a qbasic program to find sum of any 10 different numbers.
7. Write a qbasic program to read the value of P, T and R, find simple interest and total amount.
8. Write a qbasic program to find sum of first 10 natural number. Also find its average.
9. Write a qbasic program to display following series: 1, 4, 9, 15, ..., 100.
10. Write a qbasic program to print the word "Hellow" 10 times.

# 10 Sets Model Questions

## Model Question Set 1

Time: 1:30 hrs

Full Marks: 50

*Students are required to answer in their own words as far as practicable.*

All questions are compulsory.

### Group 'A'

#### Very short questions

10

#### Answer the following questions:

1. What is a computer program? 1
2. How many vacuum tubes were used in first electronic computer? 1
3. Give the example of LAN. 1
4. What is web site? 1
5. List the types of Computer software. 1
6. What is binary number ? 1
7. For what purpose Photoshop is used? 1
8. What is multimedia? 1
9. Write the full forms of the followings: 4x0.5=2
  - i) GUI
  - ii) EDSAC
  - iii) Internet
  - iv) IT

### Group 'B'

#### Short questions:

7x4=28

1. What are the functions of computer? Explain briefly. 4
2. Mention the features of word processing package. 4
3. Write down any 5 uses of Internet. 4
4. What are the symptoms of computer virus? 4
5. What are the advantages of multimedia? 4
6. Write the short notes on: 4
  - i) MS Excel
  - ii) Cyber law
7. Convert decimal number into binary numbers. 4
  - i) 65
  - ii) 1010

Binary add

  - i)  $1111_2 + 1001_2$
  - ii)  $10111_2 + 1100_2$

### Group 'C'

#### Long questions

2x6=12

1. What is an algorithm? How does it differ from flowchart? Explain.
2. What is an operating system? Give any four examples of it. Explain GUI and CUI based OS with any two examples of each.

## Model Question Set 2

Time: 1:30 hrs

Full Marks: 50

*Students are required to answer in their own words as far as practicable.*

All questions are compulsory.

**Group 'A'****Very short questions**

10

**Answer the following questions:**

1. Name the component used in fourth generation of computer. 1
2. What is a decimal computer system? 1
3. Write the example of WAN. 1
4. Define the term system software. 1
5. Give any two example of multi-user operating system. 1
6. What is a memory? 1
7. Name the extension of MS Word. 1
8. Who destroys all the data, programs, files etc. of a computer? 1
9. Write the full form of the followings: 4×0.5=2
 

i) Windows XP	ii) EDVAC	iii) CD ROM	iv) NAV
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**Group 'B'****Short questions:**

7×4=28

1. What are the characteristics of computer? Explain any two of them. 4
2. Write down the features of spread sheet package. 4
3. Explain the advantages of computer network. 4
4. How virus can be removed from the computer? 4
5. Explain the uses of computer graphics in various sectors. 4
6. Write the short notes on: 4
 

i) Internet	ii) Computer Ethics
-------------	---------------------
7. Convert decimal number into binary numbers. 4
 

i) 110	ii) 77
--------	--------

Binary Calculation

i) $1101_2 \times 1001_2 + 1001_2$	ii) $10111_2 + 100_2 + 111_2$
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**Group 'C'****Long questions**

2×6=12

1. a. Define the term flowchart. Mention any two advantages of it. 3+3  
b. Write a QBASIC program to find area and perimeter of a room.
2. a. Explain the following terms: 3×1=3  
Hyperlink, Browser, Web Page  
b. Write an HTML code to display following output: 3

**Khanu Piunu Restaurant**

Collect formation for

- Menus
- Reservation
- Catering
- Tours

Menus Available are

1 INDIAN
2 ITALIAN
3 CONTINENTAL
4 THAI



For further enquiries and reservations **Contact Us.**

## **Model Question Set 3**

**Time: 1:30 hrs**

**Full Marks: 50**

**Students are required to answer in their own words as far as practicable.**

**All questions are compulsory.**

### **Group 'A'**

#### **Very short questions**

**10**

#### **Answer the following questions:**

- |   |                                |
|---|--------------------------------|
| 1. What does versatile mean?  | 1                              |
| 2. Define the term "generation of computer".  | 1                              |
| 3. Is e-mail faster than postal mail?   | 1                              |
| 4. Name the first electronic computer.  | 1                              |
| 5. Name any two markup language.  | 1                              |
| 6. What does graphics package mean?   | 1                              |
| 7. Which software is known as presentation package?                                     | 1                              |
| 8. What is computer virus?  | 1                              |
| 9. Write the full forms of the followings:<br>i) DOS<br>ii) IRC<br>iii) HTML<br>iv) MAN | <br><br><br><br><b>4x0.5=2</b> |

### **Group 'B'**

#### **Short questions:**

**7x4=28**

- |  |                          |
|--|--------------------------|
| 1. What is an OS? Write down the advantages of windows based OS over DOS based OS.   | 4                        |
| 2. How does system software differ from application software? Explain.   | 4                        |
| 3. What is a super computer? Mention the features of it.   | 4                        |
| 4. What is data communication? In what way does it differ from computer network? Explain.  | 4                        |
| 5. How does virus can be transmitted from one computer to another? Explain.  | 4                        |
| 6. Write the short notes on<br>i) Multimedia<br>ii) Computer graphics  | 4                        |
| 7. Convert decimal number into binary numbers<br>i) 1101<br>ii) 41<br>Binary Calculation<br>i) $1101_2 \times 101_2 + 1011_2 \times 101_2$<br>ii) $1101_2 + 1011_2 \times 101_2$ | <br><br><br><br><b>4</b> |

### **Group 'C'**

#### **Long questions**

**2x6=12**

- |   |        |
|---|--------|
| 1. a. Define the term algorithm. Mention any two characteristics of algorithm.<br>b. Write a QBASIC program to find area and perimeter of a circle. | 3+3    |
| 2. a. What is a web browser? Give any four examples of it.<br>b. Write an HTML code to display the following output on the screen.                  | 2<br>4 |

### **NAME OF SAARC COUNTRIES ARE:**

- A. MALDIVES
- B. BHUTAN
- C. NEPAL
  - o Kathmandu
  - o Bhaktapur
  - o Lalitpur
- D. INDIA
- E. SRI LANKA
- F. PAKISTAN
- G. BANGLADESH

## Model Question Set 4

**Time: 1:30 hrs****Full Marks: 50***Students are required to answer in their own words as far as practicable.***All questions are compulsory.****Group 'A'****Very short questions****10****Answer the following questions:**

1. Mention any two characteristics of computer. 1
2. Why Charles Babbage is known as father of computer? 1
3. What is meant by Operating System? 1
4. Name any two example of first generation of computer. 1
5. What is data ? 1
6. What is a cell in spreadsheet package? 1
7. What is the function of 'Save as' in word processing package? 1
8. What is the function of antivirus software? 1
9. Write the full forms of the followings: 4×0.5=2
 

i) WWW      ii) VCD      iii) MAN      iv) BIT

**Group 'B'****Short questions:****7×4=28**

1. Explain the function with example of followings in spread sheet package: 4  
SUM (), AVERAGE (), MAX (), MIN ()
2. What are the precautions of computer virus?. 4
3. Explain the importance of multimedia in education sector. 4
4. How does social media affects our society? 4
5. Differentiate between super computer and micro computer. 4
6. Write the short notes on 4
 

i) web page and web site      ii) Search engine
7. Convert decimal number into binary numbers 4
 

i) 10111      ii) 26

Binary Calculation

i)  $11012 + 1012 \times 1002$       ii)  $1112 \times 1012 + 112$

**Group 'C'****Long questions****2×6=12**

1. a. Define the term pseudo code. Mention any two features of it. 3+3  
b. Write a QBASIC program to find area and volume of a cube.
2. a. What do you mean by formatting a document? 2  
b. How can we create hyperlink? Explain 2  
c. What do you know about workbook and worksheet? Explain. 2

## Model Question Set 5

Time: 1:30 hrs

Full Marks: 50

*Students are required to answer in their own words as far as practicable.*

All questions are compulsory.

**Group 'A'****Very short questions**

10

**Answer the following questions:**

1. What is meant by information? 1
2. What is analog Computer? 1
3. What is a software? 1
4. What is octal number system? 1
5. What is an output device? 1
6. What is the extension of HTML file? 1
7. Name the component of a computer system. 1
8. How many types of system software are? 1
9. Write the full forms of the followings: 4x0.5=2
  - i) HTTP
  - ii) IE
  - iii) AVG
  - iv) OS

**Group 'B'****Short questions:**

7x4=28

1. What do you know about editing and formatting text in word processing package? Explain. 4
2. What is meant by spread sheet package? Mention features of it. 4
3. Explain the uses of multimedia in the area of business and fine arts. 4
4. How can a Nepalese student get the information about US based college from Nepal? 4
5. What is computer graphics? Explain the role of computer animation. 4
6. Write the short notes on: 4
  - i) Computer network
  - ii) HTML
7. Convert decimal number into binary numbers. 4
  - i) 1011
  - ii) 25

Binary Calculation

  - i)  $1101_2 \times 1001_2$
  - ii)  $111_2 \times 11_2 + 101_2$

**Group 'C'****Long questions**

2x6=12

1. a. Explain program and programming with any two example of each. 3  
b. Write a QBASIC program to read the value of marks in any five different subjects. Find total and percentage of a student. 3
2. What is an operating system? Explain different types of operating system as you know. 6

## Model Question Set 6

**Time: 1:30 hrs Full Marks: 50**

**Students are required to answer in their own words as far as practicable.**

**Some questions are compulsory.**

### Group 'A'

**Answer any short questions** **10**

**Answer the following questions:**

What does 'BIT' mean? 1

What is an input device? 1

Name the type of OS on the basis of user. 1

For what purpose algorithm can be used? 1

How many bits are in a byte? 1

What does URL mean? 1

What is a system software? 1

When was cyber law introduced in Nepal? 1

Write the full forms of the followings: **4x0.5=2**

i) RAM

ii) E-mail

iii) FTP

iv) ISP

### Group 'B'

**Answer any four short questions:** **7x4=28**

List out any four services provided by the Internet. 4

List any four safety measures to protect computer from virus. 4

What are the causes of making computer virus? 4

Name the components of multimedia. Explain any two of them. 4

Explain the importance of computer graphics. 4

Write the short notes on 4

i) Star topology

ii) Storage device

Convert decimal number into binary numbers: 4

i) 10011

ii) 101

Binary Calculation

i)  $1110_2 \times 101_2 + 111_2$

ii)  $1110_2 \times 101_2$

### Group 'C'

**Answer any two long questions** **2x6=12**

Write an algorithm and draw a flowchart to find greater number among any three different numbers. 6

Define hybrid computer. How do you differentiate analog computer from digital computer? 6

## Model Question Set 7

Time: 1:30 hrs

Full Marks: 50

*Students are required to answer in their own words as far as practicable.*

All questions are compulsory.

**Group 'A'****Very short questions**

10

**Answer the following questions:**

- |   |         |
|---|---------|
| 1. List any two merits of computer.   | 1       |
| 2. Define the term information.   | 1       |
| 3. Name the component used in first generation of computer.                             | 1       |
| 4. What is an application software?   | 1       |
| 5. How many bytes a character 'y' stored?   | 1       |
| 6. Give any two examples of output device.  | 1       |
| 7. Are function of 'Close' and 'Exit' same in MS Word?                                  | 1       |
| 8. Who is known as first programmer?  | 1       |
| 9. Write the full forms of the followings:<br>i) ICT<br>ii) HTTP<br>iii) GIF<br>iv) CUI | 4x0.5=2 |

**Group 'B'****Short questions:**

7x4=28

- |   |   |
|---|---|
| 1. Differentiate between GUI and CUI based OS.  | 4 |
| 2. What do you mean by video conferencing and virtual reality? Explain.   | 4 |
| 3. What are the symptoms of computer virus?   | 4 |
| 4. Mention any five points of computer ethics.  | 4 |
| 5. Define the term HTML. Explain the importance of HTML in web page design.   | 4 |
| 6. Write the short notes on:<br>i) LAN<br>ii) Second generation computer  | 4 |
| 7. Convert decimal number into binary numbers.<br>i) 10101<br>ii) 117<br>Binary Calculation<br>i) $1111_2 + 1001_2 \times 111_2$<br>ii) $1111_2 \times 101_2 + 100_2$ | 4 |

**Group 'C'****Long questions**

2x6=12

- |   |   |
|---|---|
| 1. a. Write an algorithm to print the word "Nepal" ten time.<br>b. Write a QBASIC program to read the value of pen in paisa and convert it into the nearest rupees and paisa. | 3 |
| 2. Distinguish between word processing package, spreadsheet package and presentation package with any two examples of each.   | 6 |

## Model Question Set 8

Time: 1:30 hrs

Full Marks: 50

*Students are required to answer in their own words as far as practicable.*

All questions are compulsory.

### Group 'A'

<b>Very short questions</b>	<b>10</b>
<b>Answer the following questions:</b>	
1. What is a web page?	1
2. What is multimedia?	1
3. Define the term computer system.	1
4. Who developed punch cards?	1
5. In which generation microprocessor was developed?	1
6. Name the type of computer use in hospital.	1
7. Which is multi-tasking OS ?	1
8. Give any two examples of word processing package.	1
9. Write the full forms of the followings:	4×0.5=2
i) IT	
ii) PDF	
iii) JPG	
iv) GUI	

### Group 'B'

<b>Short questions:</b>	<b>7×4=28</b>
1. How computer network reduces cost of operation? Explain..	4
2. What are the advantages of using E-mail?.	4
3. Differentiate between RAM and ROM.	4
4. What do you know about software piracy and digital signature?	4
5. Define operating system. Explain the types of operating system on the basis of user.	4
6. Write the short notes on:	4
i) Page Layout in graphics	ii) ABC
7. Convert decimal number into binary numbers.	4
i) 1011	ii) 52
Binary Calculation	
i) $1001_2 + 1001_2 \times 110_2$	ii) $1101_2 \times 1101_2 + 1101_2$

### Group 'C'

<b>Long questions</b>	<b>2×6=12</b>
1. a. Draw a flowchart to find the sum of any five non negative numbers.	3
b. Write a QBASIC program to read the value of base and height of a triangle, find area of it.	3
2. Classify the computer on the basis of size, explain each of them shortly.	6

**Model Question Set 9**

Full Marks: 50

**Time: 1:30 hrs**

*Students are required to answer in their own words as far as practicable.*

**All questions are compulsory.**

### **Group 'A'**

## **Very short questions**

**Answer the following questions:**

1. What is a web site?
  2. What is a search engine?
  3. What is computer literacy?
  4. What does digital computer mean?
  5. What is storage media?
  6. Define the term "anti-virus".
  7. Name any two OS used in mobile phone.
  8. How many bytes are in 1GB?
  9. Write the full forms of the followings:

10

$$4 \times 0.5 = 2$$



### **Group 'B'**

7x4=21

### **Short questions:**

1. What are the uses of multimedia?
  2. Explain the advantages of email.
  3. List any four safety measure to protect computer.
  4. Differentiate between single user and multi-user OS.
  5. Define MS Excel. Explain any three feature of spread sheet package.
  6. Write the short notes on:
    - i) HTML
    - ii) Computer animation
  7. Convert decimal number into binary numbers.
    - i) 1111
    - ii) 77

Binary Calculation

$11101_2 + 1001_2$

Group 'C'

3×6=12

## **Long questions**

1. a. Write a Qbasic program to find temperature in centigrade  
b. Explain the functions of the following statements:  
**PRINT, LET, INPUT**
  2. Explain all the electronic computer in chronological order.

1

**Model Question Set 10**

Time: 1:30 hrs

**Full Marks: 50**

*Students are required to answer in their own words as far as practicable.*

**All questions are compulsory.**

### **Group 'A'**

### **Very short questions**

10

**Answer the following questions:**

- |      |   |         |
|------|---|---------|
| 1.   | What is removable storage media?                    | 1       |
| 2.   | What does accuracy mean in computer?                | 1       |
| 3.   | What do you mean by communication channel?          | 1       |
| 4.   | What is network operating system?                   | 1       |
| 5.   | What is ICT?  | 1       |
| 6.   | What does browsing software mean?                   | 1       |
| 7.   | What is a computer virus?                           | 1       |
| 8.   | Which program is known as heart of computer system? | 1       |
| 9.   | Write the full forms of the followings:             | 4×0.5=2 |
| i)   | bps   |         |
| ii)  | GHZ   |         |
| iii) | RAM   |         |
| iv)  | VSAT  |         |

### **Group 'B'**

**Short questions:**

$$7 \times 4 = 28$$

1. Define the term multimedia. Explain the importance of multimedia in business. 4
  2. What is an email? How does email differ from postal mail? 4
  3. How do you know that your computer is infected from virus? Explain. 4
  4. Define Computer Software with any four examples. List the types of software in tree structure. 4
  5. Explain the importance of input and output device with any two examples of each. 4
  6. Write the short notes on:
    - i) Micro Computer
    - ii) Memory4
  7. Convert decimal number into binary numbers.
    - i) 1101
    - ii) 194
  - Binary Calculation
    - i)  $11101_2 + 1011_2 \times 101_2$
    - ii)  $11011_2 + 1001_2 + 101_2$4

### **Group 'C'**

### **Long questions**

$$2 \times 6 = 12$$

1. Explain the importance of algorithm and flowchart in program design with any one example of each. 6

2. Explain the evolution of computer describing the technologies used in different generation of computer. 6

- c. ..... tag is used to break line.  
 i. <ol> ii. <br> iii. <bl> iv. None  
 d. ..... is software that is used to see the information in the web.  
 i. Browser ii. Photoshop iii. MsWord iv. All  
 e. The extension of HTML document is .....  
 i. .html ii. .doc iii. .exe iv. .pptx  
 f. There are ..... types of heading tags in HTML.  
 i. 3 ii. 5 iii. 6 iv. 7

**Group 'C' [QBasic = 15 Marks]**

- 11. Answer the following questions:** 2x1.5=3  
 a. What is Variable ?  
 b. Define Algorithm.
- 12. Draw a flowchart that calculates simple interest.** 2
- 13. Write the output of following QBasic program:** 2
- ```
CLS
LET R = 10
Area = 3.14*R*R
PRINT "The area of circle is: "; Area
END
```
- 14. Identify the error in the following program and correct it:** 2
- ```
CLS
REM Program to add two numbers
INPUT "Enter first number" :a
PRINT "Enter second number" ;b
Sum = a+b;
PRINT Sum
STOP
```
- 15. a. Write a program to check if the given number is odd or even.** 3  
**b. Write a program to calculate the volume of cylinder. [Volume =  $22/7 \times r^2 \times h$ ]** 3

**2****Kathmandu (2074) – (b)****Group 'A' [Computer Fundamentals (24 Marks)]**

- 1. Answer the following questions:** 5x2=10  
 a. What is computer hardware? List any two hardware components.  
 b. What is cybercrime?  
 c. What is computer virus? List any two symptoms of it.  
 d. What is LAN? Write its any two advantages.  
 e. Write any two importance of multimedia.
- 2. Choose the best answer:** 4x0.5=2  
 a. ..... is the type of software which is known as word processing software.  
 i. Ms-Word ii. Windows 7 iii. Google Chrome iv. Ms-Excel  
 b. ..... used to avoid unauthorized users.  
 i. Password ii. Virus iii. UPS iv. None of above  
 c. The computer which contains ..... is called microcomputer.  
 i. Bio-chip ii. Microprocessor iii. Vacuum tube iv. All of above  
 d. The content of ..... is erased when computer is turned off.  
 i. RAM ii. ROM iii. All of above iv. None
- 3. State True or False:** 4x0.5=2  
 a. Lady Augusta is considered as the first programmer.  
 b. Ms-Excel is a word processing software.  
 c. ICT scan can be used in Bank.  
 d. We can share hardware using computer network.

- c. .... tag is used to break line.  
 i. <ol>      ii. <br>      iii. <bl>      iv. None  
 d. .... is software that is used to see the information in the web.  
 i. Browser      ii. Photoshop      iii. MsWord      iv. All  
 e. The extension of HTML document is .....  
 i. .html      ii. .doc      iii. .exe      iv. .pptx  
 f. There are ..... types of heading tags in HTML.  
 i. 3      ii. 5      iii. 6      iv. 7

**Group 'C' [QBasic = 15 Marks]**

- 11.** Answer the following questions: 2x1.5=3  
 a. What is Variable ?  
 b. Define Algorithm.
- 12.** Draw a flowchart that calculates simple interest. 2
- 13.** Write the output of following QBasic program: 2
- ```
CLS
LET R = 10
Area = 3.14*R*R
PRINT "The area of circle is:";Area
END
```
- 14.** Identify the error in the following program and correct it: 2
- ```
CLS
REM Program to add two numbers
INPUT "Enter first number" :a
PRINT "Enter second number" ;b
Sum = a+b;
PRINT Sum
STOP
```
- 15.** a. Write a program to check if the given number is odd or even. 3  
 b. Write a program to calculate the volume of cylinder. [Volume =  $22/7 \times r^2 \times h$ ] 3

**2****Kathmandu (2074) – (b)****Group 'A' [Computer Fundamentals (24 Marks)]**

- 1.** Answer the following questions: 5x2=10  
 a. What is computer hardware? List any two hardware components.  
 b. What is cybercrime?  
 c. What is computer virus? List any two symptoms of it.  
 d. What is LAN? Write its any two advantages.  
 e. Write any two importance of multimedia.
- 2.** Choose the best answer: 4x0.5=2  
 a. .... is the type of software which is known as word processing software.  
 i. Ms-Word      ii. Windows 7      iii. Google Chrome      iv. Ms-Excel  
 b. .... used to avoid unauthorized users.  
 i. Password      ii. Virus      iii. UPS      iv. None of above  
 c. The computer which contains ..... is called microcomputer.  
 i. Bio-chip      ii. Microprocessor      iii. Vacuum tube      iv. All of above  
 d. The content of ..... is erased when computer is turned off.  
 i. RAM      ii. ROM      iii. All of above      iv. None
- 3.** State True or False: 4x0.5=2  
 a. Lady Augusta is considered as the first programmer.  
 b. Ms-Excel is a word processing software.  
 c. ICT scan can be used in Bank.  
 d. We can share hardware using computer network.

- 4.** Write appropriate technical term for the following: 4×0.5=2
- First calculating device made by Chinese.
  - Selling of goods and services online.
  - Illegal program that harms computer.
  - Program that removes virus from computer.
- 5.** Match the following: 4×0.5=2
- | <b>Column A</b>      | <b>Column B</b>           |
|----------------------|---------------------------|
| a) Making correction | i) Electronic Spreadsheet |
| b) To add cells      | ii) Document Security     |
| c) Excel             | iii) SUM ()               |
| d) Password          | iv) Formatting            |
|                      | v) Editing                |
- 6.** Write the full form of the following: 4×0.5=2
- LAN
  - CPU
  - ROM
  - ATM
- 7.** Convert the following numbers as indicated: 2×1=2
- $(1101)_2$  into decimal
  - $(128)_{10}$  into binary
- 8.** Perform the binary operations: 2×1=2
- $1101_2 + 111_2$
  - $1100_2 \times 11_2$
- Group 'B' [HTML (10 Marks)]**
- 9.** Answer the following questions: 2×2=4
- What is web browser? State any two popular web browser.
  - What is HTML?
- 10.** Select the correct answer: 6×0.5=3
- ..... tag is used to make the text italic.
    - <i>
    - <b>
    - <italic>
    - <u>
  - The extension of HTML is .....
    - .exe
    - .gif
    - .html
    - None of above
  - ..... tag is used to break line.
    - <OL>
    - <B>
    - <BR>
    - <Break>
  - ..... is the software that is used to see the information in the web.
    - WORD
    - EXCEL
    - BROWSER
    - Tag
  - The smallest heading tag is .....
    - <H1>
    - <H3>
    - <H6>
    - <H7>
  - ..... tag used to scroll the text in webpage.
    - <SCROLL>
    - <MARQUEE>
    - <ROTATE>
    - NONE
- 11.** Write the HTML tag for the following: 3×1=3
- School Name using heading tag.
  - Scroll your name
  - Write  $\text{CO}_2$  [using subscript tag]
- Group 'C' [QBasic (16 Marks)]**
- 12.** Answer the following questions: 2×2=4
- What is algorithm?
  - Define variable.
- 13.** Identify the error in the following program and correct it: 2
- ```

CLI
PRINT "ENTER VALUE OF A="; A
PRINT "ENTER VALUE OF B="; B
PRINT MULT=A X B
PRINT "PRODUCT"
END

```
- 14.** Write the output of the following program: 2
- ```

CLS
L=20
B=30
A=L + B
PRINT "A = "; A
END

```

## 15. Read the following program and answer the following questions:

2

```

CLS
L=10
B=6
H=2
VOL=L*B*H
PRINT "VOLUME ="; VOL
END

```

- Write the variable used in above program.
- What will be the output if value of H =1?

## 16. Write QBasic program for the following:

2x3=6

- Print the series using loop: 5 10 15 12 25 30
- Find the area of rectangle

**3****Bhaktapur (2074)****समूह 'क' (Group 'A')****बति छोटो प्रश्नहरू : Very short questions:**

10

- कम्प्युटरका पिता भनेर कसलाई चिनिन्छ ? Who is known as the father of computer?
- सामाजिक सञ्जालको कुनै एक उदाहरण देऊ। Give any one example of social network.
- पञ्च कार्डको विकास कसले गरेको हुन् ? Who developed the punch cards?
- Microprocessor कुन पिढीमा विकास गरिएको थियो ? In which generation microprocessor was developed?
- Ms-Word को एक्स्टेन्शन लेख। Name the extension of Ms-Word.
- डेसिमल सङ्ख्या प्रणालीमा कति अङ्क प्रयोग गरिन्छ ? How many digits are used in decimal number system?
- एन्टीभाइरस प्रोग्राम भनेको के हो ? What is an antivirus program?
- नेपालमा कहिलेबाट साइबर कानुन प्रचलनमा आएको हो ? When was cyber law introduced in Nepal?
- तलका पूरा रूप लेख। Write the full form of the following:
  - HTTP
  - IE
  - MODEM
  - CAD

**समूह 'ख' (Group 'B')****छोटो प्रश्नहरू : Short questions:**

7x4=28

- कम्प्युटर सुरक्षित राख्ने कुनै चार सावधानीका उपायहरूको सूची बनाऊ। List any four safety measures to protect computer.
- OS भनेको के हो ? DOS मा आधारित OS को तुलनामा Windows मा आधारित OS को फाइदाहरू लेख। What is an OS? Write down the advantages of Windows based OS over DOS based OS.
- अल्गोरिदम र फ्लोचार्टबीचका भिन्नताहरू के-के हुन् ? What are the differences between algorithm and flowchart?
- कुनै तीन फाइदासहित कम्प्युटर सञ्जालको परिभाषा देऊ। Define computer network with its any three advantages.
- फ्लोचार्ट भनेको के हो ? फ्लोचार्टमा प्रयोग हुने सङ्केतहरू बनाई तिनका कार्यहरू लेख। What is flowchart? Draw the symbols used in flowchart and write its work.
- वर्ड प्रोसेसिङ प्याकेजको कुनै चार विशेषताहरू व्याख्या गर। Explain any four features of word processing package.
- दशमलब सङ्ख्यालाई द्विआधारमा परिवर्तन गर। Convert decimal number into binary numbers.
  - 926
  - 968

**समूह 'ग' (Group 'C')****लामा प्रश्नहरू : Long questions:**

2x6=12

- a) तिमो व्यक्तिगत विवरण दिने एउटा HTML कोड लेख। Write an HTML code to give your personal information.
  - तीनओटा सङ्ख्याहरूमध्ये सबभन्दा ठूलो सङ्ख्या पत्ता लगाउने अल्गोरिदम लेखी फ्लोचार्ट बनाऊ। Write an algorithm and draw a flowchart to find greater number among any three different numbers.
- त्रिभुजको आधार र उचाइ पद्धने प्रोग्राम लेख र यसको क्षेत्रफल पनि पत्ता लगाऊ। Write a QBASIC program to read the value of base and height of a triangle and find its area.

**District Level Examination, 2073****1****Kathmandu (2073)****Group 'A' (Computer Fundamental) (25 Marks)**

1. तलका प्रश्नहरूको उत्तर देखु : Answer the following questions: 5x2=10
  - a. कम्प्युटर सफ्टवेयर भनेको के हो ? What is computer software?
  - b. साइबर कानून भनेको के हो ? What is cyber law?
  - c. कम्प्युटर भाइरसका कुनै दुईओटा लक्षणहरू उल्लेख गर । List any two symptoms of computer virus.
  - d. कम्प्युटर नेटवर्कको कुनै दुईओटा फाइदाहरू लेख । Write any two advantage of computer network.
  - e. शिक्षामा मल्टिमीडियाको कुनै दुईओटा महत्व उल्लेख गर । Write any two importance of multimedia in education.
2. ठीक उत्तर छानी लेख : Choose the best answer: 4x0.5=2
  - a. .... is a type of software that manages and controls the overall operation of computer.  
(i) Word processing      (ii) Operating system      (iii) Excel      (iv) Virus
  - b. .... should be used to avoid accessing by unauthorized users.  
(i) Password      (ii) UPS      (iii) Antivirus      (iv) None of these
  - c. The computer which contains ..... is called microcomputer.  
(i) biochip      (ii) microprocessor      (iii) vacuum tube      (iv) All of this
  - d. When a computer is turned off, the contents of RAM get .....  
(i) saved      (ii) printed      (iii) erased      (iv) both (i) and (ii)
3. ठीक र बोठिक छुट्याऊ । State true or false: 4x0.5=2
  - a. चार्ल्स ब्याविजलाई कम्प्युटर विज्ञानको पिता भनिन्छ । Charles Babbage is considered as the father of computer science.
  - b. MS Word एउटा वर्ड प्रोसेसिङ सफ्टवेयर हो । MS Word is a word processing software.
  - c. इ-बैंकिङ ICT को उपयोग हुँदैन । ICT is not used in e-banking.
  - d. हबले सबै कम्प्युटरहरूलाई भौतिक रूपमा जोड्छ । A hub provides physical connections between all computers.
4. उपयुक्त प्राविधिक शब्द लेख : Write appropriate technical term for the following: 4x0.5=2
  - a. William Oughtred ले आविष्कार गरेको गणनायन्त्र । The calculating device developed by William Oughtred.
  - b. अनलाइनबाट गरिने सामानहरूको खरिद बिक्री र सेवा । Selling of goods and services online.
  - c. प्रयोगकर्तालाई मनोरञ्जन प्रदान गर्ने कम्प्युटर मार्फत बनाइएको कृत्रिम वातावरण ।  
The artificial environment created by the computer to entertain the user.
  - d. कम्प्युटर नेटवर्कमा रहेको मुख्य कम्प्युटर । A main computer in the computer network.
5. जोडा मिलाऊ : Match the following: 4x0.5=2

Group 'A'	Group 'B'
a. Making correction	- Electronic spreadsheet
b. To add cells	- Document security
c. EXCEL	- SUM ()
d. Password	- Editing
	- Formatting
6. विस्तारित रूप लेख । Write the full form of the following: 6x0.5=3
  - (a) HTML      (b) UPS      (c) WAN      (d) CPU      (e) RAM      (f) BIOS
7. निर्देशनमा दिइएनुसार रूपान्तरण गर । Convert the following numbers as indicated. 2x1=2
  - (a)  $(1011)_2$  into Decimal      (b)  $(125)_{10}$  into Binary
8. बाइनरी हिसाब गर । Perform the following binary operations: 2x1=2
  - (a)  $(1001)_2 + (1011)_2$       (b)  $(1100)_2 \times (11)_2$

**Group 'B' (HTML) (10 Marks)**

9. तलका प्रश्नहरूको उत्तर देऊ : Answer the following questions: 2x2=4
- HTML भनेको के हो ? यसका आविष्कारक को हुन् ? What is HTML? Who invented HTML?
  - दुई उदाहरण सहित वेब ब्राउजरलाई परिभाषित गर ! Define web browser with any two examples.
10. सही उत्तर छान ! Select the correct answer: 6x0.5=3
- ..... tag is used to make a text bold.
  - (i) <OL> (ii) <B> (iii) <DL> (iv) None of the above
  - Which format of image files can be inserted in HTML?
  - (i) .DOC (ii) .GIF (iii) .PSD (iv) All of these
  - ..... tag is used to break the line.
  - (i) <OL> (ii) <BR> (iii) <BL> (iv) None of the above
  - ..... is a software that is used to see the information in the web.
  - (i) Browser (ii) Tag (iii) MS Word (iv) All of these
  - The extension of HTML document is .....
  - (i) .html (ii) .doc (iii) .exe (iv) .ppt
  - Which attribute can be used with BODY tag to set background color green?
  - (i) <background="green"> (ii) <bgcolor="green"> (iii) <vlink="green"> (iv) None of these
11. तलको लागि HTML Tag लेख ! Write the HTML tag for the following: 6x0.5=3
- School Name [use heading tag]
  - Insert horizontal line
  - Insert image of your school
  - Scroll your name
  - Link your page with <http://deokathmandu.gov.np>
  - Write H<sub>2</sub>O [use subscript tag]

**Group 'C' (Q-BASIC) (15 Marks)**

12. तलका प्रश्नहरूको उत्तर देऊ : Answer the following questions: 2x1.5=3
- भेरियबल भनेको के हो ? What is variable?
  - फ्लोचार्टलाई परिभाषित गर ! Define flowchart.
13. निम्नलिखित प्रोग्राममा भएका गलतीहरूलाई सच्चाएर पुनः लेख ! Identify the error in the following program and correct it. 2
- ```

REM To accept two numbers and find their sum
CLI
PRINT "Enter 1st number";num1
INPUT "Enter 2nd number";num2
PRINT SUM=num1 + num2
PRINT "Sum"
END

```
14. दिइएको प्रोग्रामको आउटपुट लेख ! Find the output of the following program: 2
- ```

CLS
LET R = 10
LET AREA = 3.14 * R^2
PRINT "The area of circle is : ", AREA
END

```

15. दिइएको प्रोग्राम अध्ययन गरी सोधिएका प्रश्नहरूको उत्तर देउ।

**Read the following program and answer the following questions:**

CLS

LET L=10

LET B=6

LET H=2

LET Volume=L\*B\*H

PRINT "Volume=";Volume

END

a. माथिको प्रोग्राममा प्रयोग भएका बेरियबलहरू कुन कुन हुन् लेख।

Write the variables used in the above program.

b. माथिको प्रोग्रामको आउटपुट के हुन्छ ?

What is the output of the above program?

16. निम्नलिखितको लागि QBasic मा प्रोग्राम लेख। Write QBasic program for the following:

2x3=6

a. दिइएका तीनओटा सङ्ख्याहरूको औसत निकाल्ने प्रोग्राम लेख। To accept three different numbers and print average of numbers.

b. आयातको क्षेत्रफल निकाल्ने प्रोग्राम लेख। To find the area of rectangle. [A=LxB]

2

## Bhaktapur (2073)

### Group 'A'

#### Very short questions:

10

1. Lady Augusta Ada Lovelace लाई अर्को कुन नामले चिनिन्छ ? By what name is Lady Augusta Ada Lovelace known?

2. Search Engine को कुनै दुइओटा उदाहरण देउ। Give any two examples of Search Engine.

3. Web page मा home page भन्नाले के बुझिन्छ ? What does home page mean in web page?

4. 1 byte मा bits कति हुन्छ ? How many bits make one bytes?

5. LAN topology कति प्रकारको हुन्छ ? What are the types of LAN topology?

6. Computer program मा प्रयोग हुने Language Translator को नामहरू लेख।

Write the name of the Language Translators used in computer program.

7. Smart phone मा प्रयोग हुने Android OS कुन कम्पनीले विकास गरेको हो ?

Which company developed Android OS used in Smart phone?

8. Antivirus software ले कम्प्युटरको लागि के काम गर्दछ ? What does antivirus software do for our computer?

9. पूरा रूप लेख। Write the full form of the following:

4x0.5=2

i. PROM

ii. EMAIL

iii. ISP

iv. BASIC

### Group 'B'

#### Short questions:

7x4=28

10. कम्प्युटरको पुस्ता भनेको के हो ? कम्प्युटरको पुस्तालाई कति भागमा विभाजन गरिएको छ ?

What is meant by computer generation? How many types of computer generations are there?

11. LAN र MAN बीचको फरक छुट्याऊ। Differentiate between LAN and MAN.

12. Computer virus भनेको के हो ? Computer virus सङ्कमित कम्प्युटरका लक्षणहरू के के हुन् ?

What is computer virus? Write its symptoms in computer system?

13. छोटकरीमा लेख। Write the short notes on:

a. HTML

b. Cyber Law

14. तल दिइएका shortcut key हरूको कार्य के के हुन् ? What are the function of following shortcut keys?

a. ctrl + A

b. F5 key

c. ctrl + B

d. ctrl + P

15. शिक्षणमा ICT को के भूमिका हुन्छ ? What is the role of ICT in education?

16. a. निर्देशन अनुसार बदल। Convert as indicated below:

i.  $(45)_{10} = (?)_{16}$       ii.  $(111101)_2 = (?)_{10}$

b. बाइनरी हिसाब गर। Perform binary operation:

i.  $1111 + 11011$       ii.  $101000 - 10011$

**Group 'C'**

**Long questions:**

5x2=10

17. a. Operators भन्नाले के बुझिन्छ ? यसका प्रकारहरू उदाहरण सहित उल्लेख गर।

What are operators? List their types with an example of each.

b. कुनै दुईओटा अङ्क लिई ठुलो अङ्क देखाउन प्रोग्राम लेख।

Write a program to input any two numbers and print the greater number.

c. के.जी. लाई ग्राममा परिवर्तन गर्ने प्रोग्राम लेख। Write a program to convert kilogram into gram. ( $1\text{kg} = 1000 \text{ gm}$ )

18. a. Operating system software भन्नाले के बुझिन्छ ? यसका प्रकार लेख।

What is operating system software? Give any two examples.

b. कम्प्युटर सिस्टममा booting भन्नाले के बुझिन्छ ? यसका प्रकार लेख। What is booting in computer system? Write its type.

**3**

## Morang (2073)

**1. Answer the following questions.**

8x3=24

a. What is network architecture? What are its types?

b. Write any two advantages and two disadvantages of multimedia.

c. What is computer graphic? Write two examples.

d. Differentiate between high level language and low level language.

e. Define the term Algorithm and Flowchart.

f. Write any four features of QBASIC.

g. What is looping and control statement?

h. Mention any four rules for naming variable.

**2. Fill in the blanks.**

5x1=5

a. The address of a website is called .....

b. ..... numbers system uses ten digits and six alphabets.

c. Two image file for the web are GIF and .....

d. The alternative form of print statement is .....

e. There are two types of flowchart: system flowchart and .....

**3. Write True and False:**

5x1=5

a. If ..... then is looping statement.

b. We can store string data in numeric variable.

c. AND is relational operator.

d. Adobe InDesign is page layout software.

e. The octal number system uses ten digits.

**5. Convert the following:**

4x1.5=6

(i)  $11011_2 = ?$  Decimal      (ii)  $225_{10} = ?$  binary

(iii)  $316_8 = ?$  Decimal      (iv)  $1064_{10} = ?$  Octal

5. Write an algorithm and draw the flowchart to check the inputted number is Odd or Even.

4

6. WAP to display the series: 4, 16, 36, 64, 100.

3

7. WAP to check odd or even.

3