

Grid of Computer science 2081

SUB:- COMPUTER SCIENCE

CLASS:- 10

	First term	Second term	Third term
chapters	1,2,3,6,9	4,5,7,8	10,11

First Terminal Examination-2081

chapter	Very short(1m)	Short(2m)	Long(4m)	Total
1	2x1=2	5x2=10	-	12m
2	2x1=2	5x2=10	-	12m
3	2x1=2	4x2=8	-	10m
6	2x1=2	-	4x1=4	6m
9	2x1=2	-	2x4=8	10m
Total	10 marks	28 marks	12 marks	50m

First Terminal Examination-2081

Sub- Computer science
Class- 10

Time- 2hrs

F.M=50
P.M=20

- A. Write very short answer for the following question. (6x1=6)
1. What is search engine?
 2. What do you mean by digital citizen?
 3. What is password?
 4. What is Decimal number system?
 5. What is modular programming?
 6. What is procedure?
- B. Technical term. (2x1=2)
1. Buying and selling products through online.
 2. The moral issues that deals with the use of ICT.
- C. Full form. (2x1=2)
- AVG and PB
- D. Write short answer for the following questions. (14x2=28)
1. Difference between simplex and duplex mode.
 2. Sketch and explain about star topology.
 3. Write any 2 advantages and 2 disadvantages of computer network?
 4. Difference between guided and unguided media.
 5. List any 4 services of internet.
 6. What is the main vision of IT policy of Nepal?
 7. What is the main mission of IT policy of Nepal?
 8. Write any 4 ways to manage Digital footprint?
 9. Write any 4 commandments of computer ethics?
 10. Write any 2 objectives of ETA-2063?
 11. Why is power protection devices are needed?
 12. What is an antivirus software? Name any 2 of them.
 13. What is hardware security? List any 2 software security.
 14. What is biometric? Write any 2 uses of it.
- E. Convert or Calculate. (4x1=4)

$$(101101)_2 = (?)_{10}$$

$$10110 + 10110$$

$$101101 \times 101$$

$$101101 \div 11$$

- F. WAP in Q-basic to find circumference of a circle by using SUB-program. 4
- G. WAP in Q-basic to find area of circle by using function procedure. 4

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Second Terminal Examination-2081

Chapter	Very short(1M)	Short(2M)	Long(4M)	Total
1	2x1=2	2x2=4	-	6 M
2	1	2x2=4	-	5 M
3	1	2x2=4	-	5 M
4	1	2x2=4	-	5 M
5	1	1x2=2	-	3 M
6	1	-	4x1=4	5 M
7	1	5x2=10	-	11 M
8	1	-	-	1 M
9	1	-	2x4=8	9 M
Total	10M	14x2=28	3x4=126	50 marks

Second Terminal Examination-2081

Sub- computer science

Time- 2hrs

F.M =50

Class- 10

P.M =20

- A. Write very short answer. (6x1=6)
1. What is modular programming?
 2. What is looping?
 3. What is report?
 4. What is the base value of octal number system?
 5. What is AI?
 6. What is network architecture?
- B. Technical term. (2x1=2)
1. A computer network which is limited within a room.
 2. The policy formulated for the overall development of ICT and society.
- C. Full form. (2x1=2)
- CCTV and B2C
- D. Write short answer. (14x2=28)
1. Difference between E-commerce and M-commerce.
 2. Write any 4 advantages of E-commerce.
 3. What is software security? List any 2 hardware security.
 4. What do you mean by computer security? List any 2 reasons to keep our computer secure and safe.
 5. What is an ISP? Write any 2 popular ISP's of Nepal?
 6. Write any 2 advantages and 2 disadvantages of computer network.
 7. What is meant by digital citizen? Write any 2 elements of digital citizen.
 8. Write any 4 commandments of computer ethics?
 9. Write any 4 advantages of cloud computing?
 10. Difference between DBMS and RDBMS.

11. What is primary key? Write its importance.
 12. What do you mean by shorting data? Write the types of data shorting.
 13. Write any 2 advantages and 2 disadvantages of DBMS.
 14. Write suitable data types to store employee's name, salary and photograph.
- E. Convert or Calculate. (4x1=4)
- (11001101)₂=(?)₁₆ (524)₁₀=(?)₂
- 1011011x101 1001101÷11
- F. WAP in Q-basic to find area of rectangle using function. 4
- G. WAP in Q-basic to find volume of a room by using SUB-program. 4
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Third Terminal Examination-2081

chapter	Very short (1M)	Short (2M)	Long (4M)	Total
Computer fundamental	6x1=6 (2 QnA, 2 TT, 2 FF)	5x2=10 (5 QnA)	1x4=4 (Number System)	20 marks
DBMS	2x2=2 (2 QnA)	4x2=8 (4 QnA)	-	10 marks
Q-basic	1x1=1 (1 QnA)	3x2=6 (output, Debug, QnA)	2x4=8 (sub or Function, File handling)	15 marks
c-programming	1x1=1 (1QnA)	-	1x4=4 (WAP in c)	5 marks
Total	10 Questions	12 Questions	4 Questions	50 Marks

Note:- (QnA= Question and Answer, TT= Technical Term, FF=Full Form)

Third Terminal Examination-2081 Pre SEE

F.M =50

Sub- Computer

Time- 2hrs

P.M=20

Group'A' (10 Marks)

1. Answer the following question. (6x1=6)
 - a. What is internet?
 - b. What is cloud computing?
 - c. Which data type is used to store salary of an employee in Ms-Access?
 - d. What is the extension of Ms-Access?
 - e. What are modules in Q-basic?
 - f. Write any two data type used in C language?
2. Technical term. (2x1=2)
 - a. The rate at which data are transferred in given medium.
 - b. The use of computer technology to create a simulated environment.

3. Full Form :- SMTP and CDMA (2x1=2)
Group'B' (24 Marks)
4. Answer the following question. (9x2=18)
- Difference between bus and star topology with example.
 - What is computer crime? Give any two example of it.
 - What is hardware security? Write any two measures of software security.
 - What is E-Commerce? Write its importance.
 - What is mobile computing? Write any two importance of it.
 - Difference between DBMS and RDBMS.
 - What is primary key? List any two advantages of it.
 - What is data sorting? List any two advantages of using it.
 - Define query? Write its importance.
5. Write down the output of given program. 2
- ```

DECLARE SUB series(A)
CLS
A=20
CALL series(A)
END
SUB series(A)
FOR K=1 to 5
PRINT A;
NEXT K
END SUB

```
6. Re-write the following program by correcting the bugs. 2
- ```

CLS
Open"Student.dat" FOR OUTPUT AS#2
DO
INPUT"Enter Name";N
INPUT"Enter Class";C
INPUT"Enter Roll no";R
INPUT"Enter Address";A$
WRITE#1,N$,C,R,A
CLOSE#2
END

```
7. Study the following program and answer the given question. 2
- ```

DECLARE FUNCTION text$(N$)
CLS
INPUT"Enter any string";x$
PRINT text$(N$)
END
FUNCTION text$(N$)
FOR i= len(N$) TO 1 STEP -1
W$=W$+MID$(N$,i,1)
Next i
text$=W$
END FUNCTION

```
- What is the main objective of the program given above?

b. List all the parameters used in above program?

Group'C' (16 Marks)

8. Convert / Calculate- (4x1=4)  
(110001110)<sub>2</sub>=(?)<sub>8</sub> (111)<sub>10</sub>=(?)<sub>2</sub>  
(1000-111)<sub>2</sub> (1111010÷101)  
9. WAP in Q-basic to input Radius of circle and Calculate its Area by using FUNCTION  
PROCEDURE and Circumference by using SUB-PROCEDURE. [Area= $\pi r^2$  and  
Circumference= $2\pi r$ ]. 4  
10. A sequential data file called "Record.dat" has stored data under file heading Roll no,  
Name, Gender, English, Nepali, Math and computer. WAP to display all the information to  
those whose marks in English is more than 40. 4  
11. WAP in C-language to input two numbers and find greatest among them.

Or

WAP in c-language to display the series with their sum. 1,2,3,4 ..... up to 10<sup>th</sup> term.

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