



Akshar Vidya Mandir
Janakpurdham, Nepal
Tihar & Chhath Vacation Homework.

Class 10 All Subjects.

Nepali

- रामचन्द्र लंकाको राजा हुन नचहानुको कारण के हो ?
- सन्तुष्टि कविताको को आशय पहिल्याउनुहोस।
- सपना देखे अभिभावक र विद्यार्थीलाई अघि बढ्न बाट रोक्ने शक्ति संसारमा कोहिसंग छैन भन्ने कुरालाई सन्दुक रुइतको जीवनीको आधारमा प्रष्टयाउनुहोस।
- थान्का कला र अद्यात्मको सुन्दर संयोजन हो भन्ने कुरा लाई पुष्टि गर्नुहोस्।
- जनकपुरको मोनालिसा वस्त्रालय बाट दिपावली तथा छठका लागि तयारी पोसाक मगाउदै एउटा व्यापारी चिठी लेख्नुहोस्।

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English

- Complete 2 sample papers from English 10 sets. (Province 2 : Year 2074 and 2075)

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Maths

- Complete 2 sample papers from 10 sets. (Province 2 : Year 2074 and 2075)

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Optional Maths

- Complete 2 sample papers from 10 sets. (Province 2 : Year 2074 and 2075)

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Science

- Complete minimum ten questions per chapter from 10 sets based on the total chapters covered in the class.

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Social Science

- Solve two question papers from the Ten Sets:
 1. Province 2 (2074 BS)
 2. Province 3 (2075 BS)

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Computer

See Model Questions

1) Answer the following questions.

- a) What is Topology? List its types.
- b) What is Multimedia?
- c) What is bandwidth?
- d) What is computer Network? List any 3 advantages and disadvantages of computer Network.
- e) What is computer security? Explain its types. f) Explain Star Topology with diagram.
- g) Give any two symptoms of virus attacks.
- h) Write one advantage and one disadvantage of multimedia.
- i) Write any two ways of protecting computer software.
- j) Write any two services of internet.
- k) What is computer virus? List any 4 types of computer virus.
- l) What is Backup? Why it is important?
- m) What is power protecting device? List any three examples.

2) a) Convert as indicated:

- i) $(ABD)_{16}$ into Octal
- ii) $(208)_{10}$ into Binary
- iii) $(104)_8$ into decimal
- iv) $(10101010)_2$ into Decimal
- v) $(789)_8$ into Hexadecimal Number System

b) Perform the binary calculations:

i) $1011 + 1101$

ii) 110×11

iii) $101010 + 101010 - 11111$

iv) $101011 / 100$

v) $101101 + 52_{10} + 768 + AB_{16}$

3) Match the following:

a) Radio Wave

Guided Media

b) UTP

Topology

c) UPS

Protocol

d) SMTP

Power protection device

e) HUB

Guided Media

4) State whether the following statements are true or false:

a) The wired communication media use radio signals for transmitting and receiving data.

b) Telephone is an example of full duplex mode.

c) Data transfer rate is higher in optical fiber cable than in co-axial cable.

d) The computer security refers to hardware security only.

e) Sound Card is one of the components of multimedia.

5) Write the appropriate technical terms of the following:

a) A popular wireless technology that uses radio waves to provide wireless high frequency network connections.

b) A program that can disinfect a file from virus.

c) A person who steals or destroys other's data, information, files and program.

d) A company which provides the internet facilities.

e) A computer which provides services to other computers in a network.

f) A program that destroys other programs.

g) Making duplicate copy of file for security purpose.

h) To supply regulated power to computer even at the time of power cut.

i) A secret code that gives the user to access particular program and system.

j) The scattering of the parts of same disk file over different locations.

6) Write the full forms of:

- a) URL : _____
- b) FPS : _____
- c) IPX/SPX : _____
- d) VOIP : _____
- e) UTP : _____
- f) STP : _____
- g) BNC : _____
- h) ISDN : _____
- i) NOS : _____
- j) VIRUS : _____

7) Write a QBASIC program for following using DECLARE SUB.

- a) To calculate area of Circle.
- b) To calculate area of 4 wall.
- c) To enter any number and check it is even or odd.
- d) To enter any number and check either it is prime or composite.
- e) To enter any number and check either it is palindrome or not.
- f) To enter any number and check either it is Armstrong number or not.
- g) To enter any string and display in reverse order.
- h) To enter any string and display only vowel.
- i) To enter any string and display only consonant.
- j) To enter any sentence and count number of word in sentence.
- k) To enter any number and display only the even digits.
- l) To enter any number and display only the multiple of 5
- m) To display the following pattern.

a)	b)	c)	d)	e)
5	1	55555	12345	AKSHAR
55	12	5555	1234	AKSHA
555	123	555	123	AKSH
5555	1234	55	12	AKS
55555	12345	5	1	AK
				A