**SATYAWATI SECONDARY SCHOOL**

**VYAS-2, DAMAULI**

**Class: -** X  **Learning Achievement Examination 2081 F.M: 50 Subject: CHERM Time***: 2 Hrs.*

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

***Group A***

***Choose the best answer for the following questions (9\*1=9)***

1. Kirchhoff's first and second law are respectively based on conservation of

a. Energy and charge b. Mass and charge

c. Charge and energy d. Mass and energy

2. What type of semiconductor is used in LED electronic circuits?

a. Degenerated semiconductor b. intrinsic semiconductor

c. Compound semiconductor c. Compensated semiconductor

3. Which is the least expensive type of monitor?

a. CRT monitors b. TFT monitors

c. LED monitor d. LCD monitor

4. Which kind of device is a digital camera?

a. Output b. Input

c. Input and Output d. Software

5. What is POST?

a. Post-operative self-test. b. PC operating system test.

c. Power on self-test. d. Personal overall starter test.

6. What is the easiest way to correct a problem on a user's workstation?

a. Reboot the computer

b. Reinstall the OS

c. Reconfigure the workstations hardware settings

d. Create a new user profile

7. Which of below mentioned reason don't satisfy the reason why people create virus?

a. Protection

b. Identity theft

c. Pranks

d. Research purpose

8. Which of following is not the computer virus?

a. Macro virus

c. Rhino virus

b. Boot sector virus

d. File virus

9. Which of the following can be used for reducing recovery time?

a. Automatic failover

b. By taking backup on a faster device

c. Taking multiple backups-one in same location, another at different location

d. All of above

**Group B**

**Give short answers for the following questions. [5×5=25]**

1. Explain PN junction with reverse and forward biased.

2. Define system BIOS with its function.

3. Explain display unit with monitor resolution, color and refresh unit

4. What are advantages of partitions? Write its type.

5. State methods of cooling and ventilation in computer.

**Group C**

**Give long answers for the following questions. [2×8=16]**

1. Explain different power related problems and its solutions.

2. Give detail explanation of troubleshooting boot problems.