

Dear Students!!

In this e-book of **8th class**, study material of computer science is being sent to you as per new syllabus (2023-24). You can easily prepare your test / papers by reading these notes and watching the video lectures given below. Following are the links of the video lectures in blue colour. Watch these video lectures by clicking on the relevant link of chapter to have better understanding of various concepts.



8th Class - Computer Science Syllabus & Video Lecture Links (Pbi)

8ਵੀਂ ਜਮਾਤ ਦੇ ਕੰਪਿਊਟਰ ਸਾਇੰਸ ਦੇ ਪਾਠਾਂ ਨਾਲ ਸੰਬੰਧਤ ਵਿਡੀਓ ਲੈਕਚਰਾਂ ਦੀ ਪਲੇਅਲਿਸਟ ਦਾ ਲਿੰਕ:

<https://youtube.com/playlist?list=PLja3EaJFAjmb2GmtO1tR1b9LSAvgl21AA>

ਪਾਠਾਂ ਅਨੁਸਾਰ ਵਿਡੀਓ ਲੈਕਚਰਾਂ ਦੇ ਲਿੰਕਸ:

ਪਾਠ-1 ਟਾਈਪਿੰਗ ਟਿਊਟਰ-ਪੰਜਾਬੀ ਦੀ ਵਿਆਖਿਆ ਦਾ ਵਿਡੀਓ ਲੈਕਚਰ

<https://youtu.be/30yncS5iCKY>

ਪਾਠ-1 ਟਾਈਪਿੰਗ ਟਿਊਟਰ-ਪੰਜਾਬੀ ਦੇ ਅਭਿਆਸ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਹੱਲ

<https://youtu.be/5gALeNhznM>

ਪਾਠ-2 ਇੰਟਰਨੈਟ ਫੰਡਾਮੈਂਟਲਜ਼ ਦੀ ਵਿਆਖਿਆ ਦਾ ਵਿਡੀਓ ਲੈਕਚਰ

<https://youtu.be/leyWAOQI0PY>

ਪਾਠ-2 ਇੰਟਰਨੈਟ ਫੰਡਾਮੈਂਟਲਜ਼ ਦੀ ਵਿਆਖਿਆ ਦੇ ਅਭਿਆਸ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਹੱਲ

<https://youtu.be/Co1ZIFtuG1l>

ਪਾਠ-3 ਸੂਚਨਾ ਟੈਕਨੋਲੋਜੀ ਨਾਲ ਜਾਣ-ਪਛਾਣ ਦੀ ਵਿਆਖਿਆ ਦਾ ਵਿਡੀਓ ਲੈਕਚਰ

<https://youtu.be/JohHSCBjv30>

ਪਾਠ-3 ਸੂਚਨਾ ਟੈਕਨੋਲੋਜੀ ਨਾਲ ਜਾਣ-ਪਛਾਣ ਦੇ ਅਭਿਆਸ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਹੱਲ

<https://youtu.be/gpHzkJyr1hA>

ਪਾਠ-4 ਐਮ.ਐਸ. ਪਾਵਰਪੁਆਇੰਟ ਭਾਗ-1 ਦੀ ਵਿਆਖਿਆ ਦਾ ਵਿਡੀਓ ਲੈਕਚਰ

<https://youtu.be/0l4hvRnO-vs>

ਪਾਠ-4 ਐਮ.ਐਸ. ਪਾਵਰਪੁਆਇੰਟ ਭਾਗ-1 ਦੇ ਅਭਿਆਸ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਹੱਲ

<https://youtu.be/tX5rMvZXRxM>

ਪਾਠ-5 ਐਮ.ਐਸ. ਪਾਵਰਪੁਆਇੰਟ ਭਾਗ-2 ਦੀ ਵਿਆਖਿਆ ਦਾ ਵਿਡੀਓ ਲੈਕਚਰ

<https://youtu.be/mdgBGzo9hfw>

ਪਾਠ-5 ਐਮ.ਐਸ. ਪਾਵਰਪੁਆਇੰਟ ਭਾਗ-2 ਦੇ ਅਭਿਆਸ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਹੱਲ

<https://youtu.be/juNk4gEc6Mg>

PLEASE DO NOT FORGET TO LIKE, SHARE AND SUBSCRIBE OUR YOUTUBE CHANNEL

 **YouTube** <http://youtube.com/c/computersciencepunjab>

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Please use the following link to download the study material/e-books/e-contents for 6th to 12th classes:

<http://cspunjab.nirmancampus.co.in/study.php>

Que:1 Multiple Choice Questions:

1. Second generation used the _____ as their basic component.

- a) Vacuum Tubes b) VLSI c) ULSI [d\) Transistor](#)

2. The _____ generation of computers used VLSI circuits.

- a) First b) Second c) Third [d\) Fourth](#)

3. The third generation of computer used _____ in place of transistors.

- [a\) Integrated Circuits](#) b) Vacuum Tubes c) ULSI d) VLSI

4. _____ is an upcoming branch in computer science which interprets means and methods of making computers think like human beings.

- a) Robotics b) ULSI [c\) Artificial Intelligence](#) d) Integrated Circuits

5. ULSI technology is used in _____ generation of computers.

- a) Second b) Third c) Fourth [d\) Fifth](#)

Que:2 Write the Full forms:

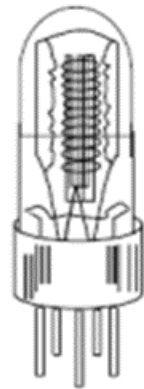
1. ENIAC : Electronic Numerical Integrator and Computer
2. IBM : International Business Machines
3. IC : Integrated Circuits
4. VLSI : Very Large-Scale Integration
5. ULSI : Ultra Large-Scale Integration
6. AI : Artificial Intelligence

Que:3 Short Answer Type Questions

Q:1 Write the main features of First-Generation computers.

Ans: The main features of first-generation computers are:

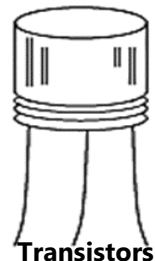
- Vacuum tubes were used as basic processing components.
- Machine and Assembly languages were used in these generations.
- Size of these computers is very large.
- These computers produced a lot of heat.
- These computers were very expensive and difficult to use.



Q:2 Which technology was used for Second Generation of Computers?

Ans: Following technologies were used in this generation of computers:

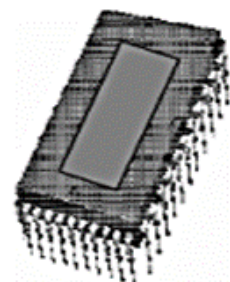
- Transistors were used as basic processing components.
- The magnetic core was used as the primary memory.
- Magnetic tapes and disks were used as secondary storage devices.



Transistors

Q:3 What is IC?

Ans: IC stands for Integrated Circuits. A single IC contains several transistors, registers, and capacitors. IC was invented by Jack Kilby. These circuits were used to make third generation computers.



IC-Integrated Circuit

Q:4 Write about Fourth Generation of computers.

Ans: The time interval of fourth-generation computers was from 1975 to 1989. Computers of this generation used VLSI circuits. These circuits made it possible to build fourth-generation's Microcomputers. Computers of this generation were very powerful, small, and reliable.



VLSI Chip

Q:5 What is AI? Write the areas which are included in AI.

Ans: AI stands for Artificial Intelligence. It is a new branch of computer science that enables computers to think and act like humans. AI includes some of the key areas:

- Robotics
- Game Playing
- Expert System
- Systems for understanding Natural Languages



Q:6 Write the examples of First Generation of Computers.

Ans: Some of the main Computers of First Generations are as follows:

- ENIAC
- EDVAC
- EDSAC
- UNIVAC I
- IBM 701

Que: 4 Long Answer Type Questions

Q:1 What do you mean by Generation of Computers? How are they classified?

Ans: In the technical terminology of computers, a Generation means the change in computer technology. Till now, Computer Generations have been classified into total five generations which are as follows:

- First Generation Computers (1942-1955)
- Second Generation Computers (1955-1964)
- Third Generation Computers (1964-1975)
- Fourth Generation Computers (1975-1989)
- Fifth Generation computers (1989 - present)

Q:2 Explain Fifth Generation of Computers.

Ans: The time period of fifth generation computers is from 1989- till date. Fifth Generation computers use ULSI (Ultra Large-Scale Integration) technology. These ULSI Microprocessor chips contain tens of millions of electronic components. Computers of this generation works on the basis of Parallel Processing hardware and Artificial Intelligence (AI) software. All high-level languages like: C, C ++, Java, .Net, etc. are used in the computers of this generation.



ULSI Chip