



**SRMS**

**JULY 2022**

**Vol.: 6, Issue: 7**

**CAMPUS-ANVESHAN**

**College of  
Engineering,  
Technology & Research**



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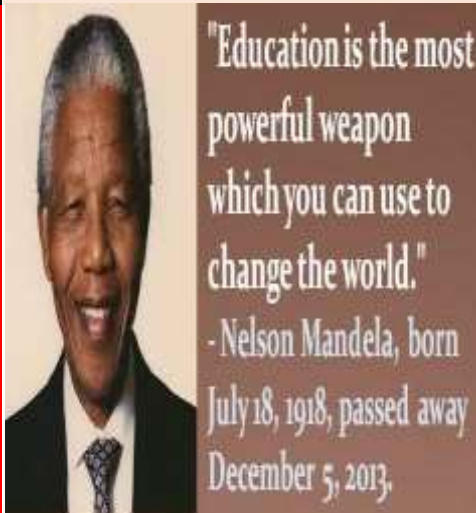
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**Principal's Desk**

Now a days, in the world of competition, any institute shall have to excel with perfection to survive. They will have to meet the high standards set by the industries as well. Our goal is to change the world through education. It may sound idealistic, but this is precisely our long term goal. It is what motivates the work of everyone at SRMS College of Engineering Technology & Research — from faculty and staff, to students and alumni. It inspires our teaching and research. It is this goal which fuels the faculty to excel.

Our approach reflects the educational needs of the 21st century. We focus on our students by providing them with a world-class outcome based education and hands-on experience through research, training, and student forum activities etc. The success of our undergraduate & postgraduate programs is supervised by our eminent faculty, who continue to set the standard for excellence. There is continuous check on the implementation of planned academic activities with desired results in grooming our future generation for employment and for higher studies in India and abroad. A research culture has taken shape in the institute through enhanced R & D activities. We believe in continuous development and strive to carry on the best efforts and endeavors towards the benefit of the students.

**Dr. L. S. Maurya**  
**Principal**



**Published by**

**SHRI RAM MURTI SMARAK COLLEGE OF ENGINEERING, TECHNOLOGY & RESEARCH**

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# HAPPENING AT THE COLLEGE

## MOU Signing Ceremony With Hexnbit Edtech Pvt. Ltd.

On Saturday, 2<sup>nd</sup> July, 2022, **Shri Ram Murti Smarak College of Engineering Technology & Research, Bareilly** organised a **Memorandum of Understanding (MOU)** signing ceremony with **Hexnbit Edtech Pvt. Ltd., Noida**, which is a reputed brand for Skill Development Programs, Project Based Trainings, Internship, FDP and Industry Mentorship. This MOU was signed in SRMS CET&R's Mini Auditorium from 11:00 A.M. onwards in the presence of all Faculty, staff members and students.

The event began with the greetings and welcoming of the Guests and Dignitaries by MOC **Er. Neha Sharma**. Lamp Lighting ceremony with Saraswati Vandana followed by Sansthan Geet took place in the event inaugural. Badges and saplings were presented to the Dignitaries according to the eco friendly culture of SRMS Trust. **Principal, SRMS CET&R, Dr. L.S. Maurya** gave the welcome address to the Guests.



**Mr. Abhishek Gupta**, Director of **Hexnbit**, addressed the students and informed thoroughly about the latest ongoing on-demand all-time booming technologies like Cloud Computing, Fog Computing, Data Science, Artificial Intelligence, Machine Learning etc., MOU offerings and its outcomes. Students can be highly benefitted in future by availing the Skill Development Programs, Project Based Trainings, Internship Support etc.



Additionally, Company will also provide Special Mentorship Facility to students to show them the pathway to success. Not just only for students, but **Hexnbit** will provide benefits to Faculties also under its “Faculty Development Program (FDP)”. An interactive Q and A session was also conducted to solve the questions and queries of the students.





# HAPPENING AT THE COLLEGE



**Trust Secretary, Shri Aditya Murti** also addressed the gathering emphasising on the need of maximum utilisation of the various offerings by the company in future, adopt such MOUs and get habitual of corporate world as early as possible. He informed that MOUs with these companies are being signed by the SRMS trust in the hope to provide maximum possible benefits to all the students in their college journey. So, In this competitive era, students should progressively search such opportunities and equip themselves for the challenges to be faced by them in their lives in future. Several such MOUs are still lined up to be the integral part of SRMS Institutions in future as well, he added.



Conclusively, hoping for more such precious MOUs with different companies in future as well, the program ended with the vote of thanks by **Trust Advisor, Er. Subhash Mehra** followed by National Anthem.



# HAPPENING AT THE COLLEGE

## Tree Plantation in College Campus

On Wednesday, 6<sup>th</sup> July, 2022, Tree Plantation was done in the campus of **Shri Ram Murti Smarak College of Engineering Technology & Research, Bareilly** with great enthusiasm. In Tree Plantation many kinds of Plants like Rosewood, Arjun, Blackberry, Neem & Teak were planted in order to make eco-friendly environment. Tree plantation is the process of transferring of seedlings from one place to another for different purposes. Furthermore, there are various reasons behind tree plantation but the most important are forestry, land reclamation, and landscaping. On this occasion **Principal SRMS CET&R, Dr. L. S. Maurya**, all faculty members, staff and students were present to make Tree Plantation successful.





## New Technology Trends for 2022

### 1. Smarter Devices

Artificial intelligence has played an essential role in making our world smarter and smoother. It is not just simulating humans but going the extra mile to make our life hassle-free and simpler. These smarter devices are here to stay in 2022 and even further, as data scientists are working on AI home robots, appliances, work devices, wearables, and so much more! Almost every job needs smart software applications to make our work life more manageable. Smarter devices are another addition to the IT industry that is of high requirement and demand as more companies transform into digital spaces. Almost every higher-level job requires a good proficiency in IT and automation these days to thrive. Here are the best jobs you can venture:

- IT Manager
- Data Scientists
- Product Testers
- Product Managers
- Automation Engineers
- IT Researchers

### 2. Datafication

Datafication is simply transforming everything in our life into devices or software powered by data. So, in short, Datafication is the modification of human chores and tasks into data-driven technology. From our smartphones, industrial machines, and office applications to AI-powered appliances and everything else, data is here to stay for longer than we can ever remember! So, to keep our data stored the right way and secure and safe, it has become an in-demand specialization in our economy.

Datafication leads to a higher need for IT professionals, data scientists, engineers, technicians, managers, and so much more. Even more useful is that anyone with a sound knowledge of technology can do a certification in data-related specializations to find a job in this space. Data jobs are more about skills than big-level qualifications, and we have so many successful leaders emerging from smaller cities and developing countries like India. Let's look at some popular data careers:

- Big Data Engineers
- Robotics Engineers
- IT Architect
- Business Intelligence Analyst
- Data Scientists

### 3. Extended Reality

Extended reality comprises all the technologies that simulate reality, from Virtual Reality, Augmented Reality to Mixed Reality and everything else in-between. It is a significant technology trend right now as all of us are craving to break away from the so-called real boundaries of the world. By creating a reality without any tangible presence, this technology is massively popular amongst gamers, medical specialists, and retail and modeling.

Regarding extended reality, gaming is a crucial area for popular careers that don't require high-level qualifications but rather a passion for online gaming. You can pursue game design, animation or even editing programs to pursue a successful career in this specialization. Meanwhile, check out the best jobs in AR, VR as well as ER:

- Extended Reality Architect
- Front Lead Engineer
- Software Developer

# STUDENT CORNER

- AR/VR Support Engineers
- Game Designers
- Pro Gamers
- Creative Directors

## 4. Digital Trust

With people being accommodated and tangled with devices and technologies, confidence and trust have been built towards digital technologies. This familiar digital trust is another vital trend leading to more innovations. With digital conviction, people believe that technology can create a secure, safe and reliable digital world and help companies invent and innovate without worrying about securing the public's confidence.

To create a safer space for digital users, cyber security and ethical hacking are the major specializations you can check out. In these two, there is an array of jobs you can discover from junior to senior levels. For ethical hacking, you might have to take up professional certifications, while for cyber security, a diploma or even a master's qualification is sufficient to aim for a high-salary role. Here are the top jobs you can find in cyber security and ethical hacking:

- Cyber security Analyst
- Penetration Tester
- Security Engineer
- Security Architect
- Security Automation Engineer
- Network Security Analyst

## 5. 3D Printing

A key trend in innovation and technology is 3D printing which is used to formulate prototypes. This technology has been impactful in the biomedical and industrial sectors. None of us thought of printing a real object from a printer, while right

now, it's a reality. So, 3D printing is another innovation that's here to stay. For companies in the data and healthcare sector that require a lot of 3D printing for their products, various jobs pay well and are international. All you need is a sound knowledge of AI, Machine Learning, Modeling, and 3D printing. Let's check out the best jobs in this specialization:

- CX Program Manager
- 3D Printer Engineer
- Emulation Prototyping Engineer
- Robotics Trainer
- AI Engineer
- Operations Manager
- Organ & Prosthetic Designer

Compiled By:  
*Abhiyansh Gupta*  
*B.Tech (First Year) CS*

## **Sir Edward Dyer, 'My Mind to Me a Kingdom Is'.**

My mind to me a kingdom is;  
Such present joys therein I find,  
That it excels all other bliss  
That earth affords or grows by kind:  
Though much I want that most would  
have,  
Yet still my mind forbids to crave ..

Compiled By:  
*Harsh Vardhan Saxena*  
*B.Tech (Second Year) CS*

## Nanotechnology: Technology for Future

### "There's Plenty of Room at the Bottom: An Invitation to Enter a New Field of Physics"

was a lecture given by physicist Richard Feynman at the annual American Physical Society meeting at Caltech on December 29, 1959

### Nanoelectronics (Contd...)

Nanorobots can be used as ancillary devices for processing different chemical reactions in the affected organs, They are useful for monitoring and controlling the glucose levels in diabetic patients, Nanodentistry are used in dentistry, nanorobots are used in desensitizing tooth, oral anesthesia, straightening of an irregular set of teeth and improvement of the teeth durability, major tooth repairs and improvement of the appearance of teeth, etc.

### Nanotechnology in Cancer treatment

Nanotechnology is the science and engineering of controlling the matter at the molecular scale to create devices with novel chemical, physical, and biological properties, it can change how we diagnose and treat cancer.

Cancer occurs when the body cells are divided continuously without controlling, the mass resulted from this division is called the tumor.

The Egyptian Scientist Dr. Mustafa El Said discovered a way to detect cancer cells and kill them by using very small molecules of gold measured by the nanometer unit, so they called Nano-molecules and this technic is called Nanotechnology that we can benefit from it in discovering cancer disease and treatment of cancer.



*Nanotechnology in cancer treatment*

Nanoscale objects have dimensions smaller than 100 nanometers, Nanotechnology is used in the biosciences, the electronics, the magnetics, the optics, the information technology, and the materials development, all of which have an impact on the biomedicine.

### Discovering cancer disease

Discovering the cells infected with cancer by using Nano-technical by loading the proteins (that have the ability to attach to the cancerous cell secretions) with Nano-molecules of gold and then injecting them into the patient.

The golden molecules pass through the blood of the patient, then the proteins attach to the cancerous cell surface to monitor it through a microscope, each cell separately.

Nanotechnology can provide rapid and sensitive detection of cancer-related targets, it helps the scientists to detect the molecular changes even when they occur only in a small percentage of cells.

### Treatment of cancer

The cancer therapies that are limited to the surgery, the radiation, and the chemotherapy, All the three methods have risk damage to the normal tissues or incomplete eradication of cancer.

Nanotechnology targets the chemotherapies directly and selectively to the cancerous cells and the neoplasms, they guide in the surgical resection of tumors, and they enhance the therapeutic efficacy of radiation-based and other treatment modalities.

The current imaging methods can only readily detect cancers once they have made a visible change to the tissue, Thousands of cells will have proliferated and perhaps metastasized, and when visible, the nature of the tumor, malignant or benign.

Two things would be necessary which are something that specifically identifies the cancerous cell and another thing that enables it to be seen, and they can be done through nanotechnology.

The antibodies that identify the specific receptors found to be overexpressed in the cancerous cells can be coated by nano-particles such as the metal oxides that produce the high contrast signal on the magnetic resonance images or computed tomography scans, the antibodies that on these nano-particles will bind selectively to the cancerous cells, and lighting them up for the scanner.

# FACULTY ARENA

The gold particles could be used to enhance the light scattering for the endoscopic techniques like the colonoscopies, Nanotechnology will help in the molecular markers visualization that identifies the specific stages and the types of cancers, allowing the doctors to see the cells and the molecules undetectable through conventional imaging.

Treatment of cancer by using Nano-molecules of gold by focusing laser with a certain degree to the molecules of gold, then they absorb the light and convert it into the heat which burns and kills the infected cell.

Treatment of cancer by using developed microscopic bombs, Using Nanotechnology, scientists have developed smart microscopic bombs that penetrate the cancer cells and explode them from inside.

Microscopic bombs were used to kill the cancer cells in experimental mice, Mice suffered from the cancer were able to live 300 days after this treatment, as for mice that did not receive treatment, and they cannot live more than 43 days.

Nanotechnology is being applied to cancer in two broad areas which are the nano-vectors development such as the nano-particles which can be loaded with the drugs or the imaging agents and then they are targeted to the tumors, and high-throughput nano-sensor devices for detecting the biological signatures of cancer, So, They could lead to earlier diagnosis and better treatment for the patients with cancer.

## **Nanotechnology in Medical field**

Nanotechnology is used in producing Nano robots that enter the body through the blood stream to remove the blood clots from the vein walls without surgical interference, It is used in the early diagnosing of diseases and picturing of the organs and tissues.

Nano robots are specialized nano machines, they have dimensions in the order of nano-meters, typically 0.5 to 3 microns large with 1-100 nm, their parts are made of chemically inert forms of carbon, they are used in dentistry, they are used in major tooth repair, they induce local anaesthesia and they avoid discomfort to the patient.

Nanotechnology is used in exactly delivering of a medicine to the infected tissues and cells which increases the chances of healing and decreasing the harmful side effects of the traditional healing methods which does not distinguish between the infected cells.

Nanotechnology is used in producing extremely small devices for dialysis that are implanted in the body of the patient who suffers from kidney failure, Dr. Mustafa El-Sayed was the first Egyptian Scientist obtained the American National Science pendant for using gold Nano molecules to treat cancer disease .



*Nano robots*

## **Agricultural field**

Nanotechnology is used in identifying bacteria that found in nutrients, So, we can use this technology in preserving the food, It is used in improving the nutrients, pesticides, and medicine for the plants and animals with special features.

## **Energy field**

Nanotechnology is used in producing solar cells by using Nano silicon which has a great ability to convert solar energy into the electrical energy and avoid the leakage of heat energy, tt is used in producing hydrogen fuel cells ,*with a high performance and low cost.*

## **Industrial field**

Nanotechnology is used in producing invisible Nano molecules which give the glass and the ceramics the property of self-cleaning, It is used in producing Nano substances to purify ultraviolet rays in order to improve sunblock, cosmetics and creams.

Nanotechnology is used in producing Nano wrapping technology in the form of paints and sprays to protect the screens of electrical devices from scratching, it is used in producing repellent tissues for the stains that are characterized by the *self-cleaning property.*

## **Communications field**

Nanotechnology is used in producing the wireless Nano devices, mobiles and satellites, it is used in decreasing the size of transistors. It is used in



producing the electric chips that are characterized by a high storage capacity.

## **Environmental field**

Nanotechnology is used in producing Nano filters which are used to purify the air and water, Nano filters are used to solve the nuclear wastes problem and they are used to eliminate the dangerous elements from the industrial wastes.

## **The possible harmful effects of Nanotechnology**

### **Environmental effects**

During the production of Nano substances, there are many wastes may be suspended in the air, then enter the water and the soil and they may easily penetrate the animal and the plant cells, this called Nano pollution, Nano pollution is the pollution caused by the wastes that are produced from preparing Nano substances.

### **Medical effects**

The very minute Nano particles may enter the body of the human or the animal through the cell membrane of the skin and the lungs causing the diseases.

### **Social effects**

The social and economic problems between the rich word countries and the developing countries may increase due to the unequal distribution of technology and the economic resources.

Compiled By:

*Dr. Rajeev Pandey*

*Chief Proctor*

## **Importance of Education in life**

Learning is the best path towards a successful and happy life, as it is conducive to a better understanding of life, and all acquired knowledge can be used towards fulfilling one's ambition. An educated person will perceive a problem in the right way and offer an adequate solution, using the knowledge they have gained.

However, children often question the importance of education in life, wondering what could possibly be the use of all that information in life. What they fail to comprehend is that learning and self-advancement do not stop at that biology lesson.

On the contrary, it is just a piece of the great puzzle of education, with all its benefits. A large portion of the knowledge and skills acquired at school are essential for a successful life and the realization of all personal goals.

## **Why is education important?**

There are countless benefits that are brought about by education, primarily regarding the quality of an individual's life and the ease of fulfillment of personal ambitions. To reach that level, one needs to invest a lot of effort, which will pay off quite handsomely. Let us take a look at some of the important effects that education brings to everyone who decides upon educating and advancing themselves:

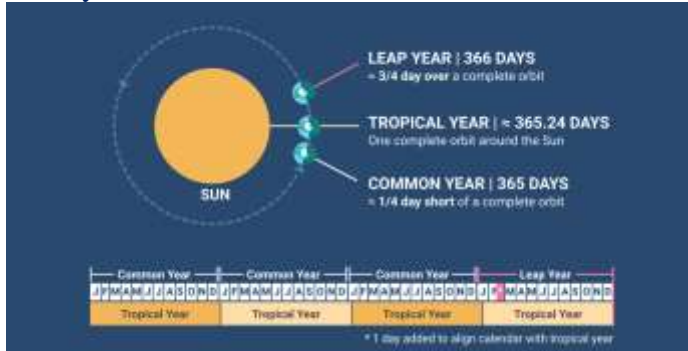
- Educated person has a better understanding of society
- Studying hard leads to a more successful career
- Education improves self-confidence
- Schooling helps develop critical thinking
- Learning is conducive to a richer life
- Education – lifelong companion of every successful person

Compiled By:

*Ms. Neha Sharma*  
*Assistant Professor*

## What Is a Leap Year?

We use leap years to keep our calendar in sync with the seasons. How do leap years' work, and how often do they occur?



### Leap Years Have an Extra Day

Leap years are years where **an extra day is added** to the end of the shortest month, February. This so-called *intercalary* day, February 29, is commonly referred to as leap day. Leap years have 366 days instead of the usual 365 days and occur almost every four years.

Is 2022 a Leap Year?

No, 2022 is not a leap year. The last leap day was February 29, 2020. The next one is February 29, 2024.

Leap Year Rules: How to Calculate Leap Years

In our modern-day Gregorian calendar, three criteria must be taken into account to identify leap years:

The year **must be evenly divisible by 4;**

If the year can also be **evenly divided by 100**, it is *not* a leap year;

Unless...

The year is also **evenly divisible by 400**. Then it is a leap year.

According to these rules, the years 2000 and 2400 are leap years, while 1800, 1900, 2100, 2200, 2300, and 2500 are *not* leap years.

Compiled By:  
*Mr. Shiv Poojan Trivedi*  
*System Administrator*

## How does the internet affect brain function?

Recent research suggests that excess use of the internet over prolonged periods of time may negatively affect some cognitive functions, particularly attention and short-term memory.

Since using the internet often involves our ability to multi-task between different settings—and somehow trains our brains to quickly shift focus to the stream of pop-ups, prompts, and notifications—this may, in fact, interfere with our ability to maintain focus on a particular cognitive task for extended times.

In other words, our ability to perform our daily activities involves a combination between our ability to multi-task and shift attention between different tasks, and our ability to maintain attention on a particular topic.

While digital multi-tasking may be a good practice for shifting focus, it may also weaken our ability to maintain focus on one area for an extended period of time. So it may make us more easily distractible because it reduces our ability to ignore distractions.

In addition to its negative effects on cognition, excess internet use has been associated with a higher risk for depression and anxiety, and can make us feel isolated and/or overwhelmed.

- Limit the time you spend on the internet. During your working and non-working hours, schedule specific times to use the internet (unless your job directly involves use of the internet or you have an important deadline.)
- Make sure your use of the internet isn't taking time away from your family.
- Set aside a certain time of the day when you check your email inbox.

Compiled By:  
*Mr. Sachin Verma*  
*Lab Assistant*

# HEALTH TIPS

1. Eat a healthy diet
2. Consume less salt and sugar
3. Reduce intake of harmful fats
4. Avoid harmful use of alcohol
5. Don't smoke
6. Be active
7. Check your blood pressure regularly
8. Get tested
9. Get vaccinated
10. Cover your mouth when coughing or sneezing

## AYURVED

### चिकित्सकों की आचार संहिता

आयुर्वेद में चिकित्सकों की आचार संहिता का विवरण चरक, सुश्रुत ने स्थान-स्थान पर किया है। चरक लिखते हैं कि जो चिकित्सक अपने स्वार्थ को एक तरफ रख केवल प्राणियों के हित की कामना से चिकित्सा-कार्य करते हैं, वे ही सर्वश्रेष्ठ चिकित्सक हैं। उन्हें समस्त व्याधिग्रस्तों को पुत्र मानते हुए रोगमुक्त करने का प्रयास करना चाहिए। चिकित्सक को आजीविका के बारे में आश्वस्त करते हुए कहा गया है—कहीं धन मिलेगा, कहीं मित्रता, कहीं पुण्य, कहीं यश, कहीं से कर्माभ्यास। अतः चिकित्सा-कार्य कभी निष्फल नहीं जाता। चिकित्सक के प्रति रोगी का विश्वास इतना होता है कि वह अपना जीवन उसे सौंप देता है। चिकित्सक को सदैव पक्षपात रहित होकर सत्यनिष्ठा से कार्य करना चाहिए।

काश! आज के चिकित्सक भी इनसे कुछ शिक्षा लेते।

अखंड ज्योति अक्टूबर २००९



# MOTIVATIONAL STORY

## बाल गंगाधर तिलक

बालगंगाधर तिलक ने जब बी० ए०, एल० एल० बी० की परीक्षा पास की तो उनके मित्र यही आशा कर रहे थे कि वे एक सफल वकील बनकर खूब पैसा कमाएँगे, पर उनने अपनी सभी सेवाएँ 'न्यू इंग्लिश स्कूल' एवं फर्ग्युसन कॉलेज की स्थापना हेतु दे दीं। इन्हीं संस्थाओं से पढ़कर निकलने वालों ने महाराष्ट्र में, जनजाग्रति की योजनाओं का प्रचार-प्रसार किया। लोकमान्य तिलक ने दो राष्ट्रीय त्योहारों का प्रचलन किया। एक था—गणपति उत्सव और दूसरा—शिवाजी जयंती। तिलक ने बंगाल की दुर्गा पूजा की तरह गणपति को एक सप्ताह तक पूजने तथा साथ ही साथ राष्ट्रीय महत्त्व के अनेकानेक कार्यक्रम सम्मिलित कर, उसे लोक-शिक्षण का माध्यम बना दिया। शिवाजी जयंती को उनने राष्ट्रीयता के विस्तार का प्रतीक बताया। इन उत्सवों से व्यापक जनजाग्रति फैली। 'केशरी' के उनके संपादकीय एवं राष्ट्रभक्ति-भावना के विस्तार से बौखलाई ब्रिटिश सरकार ने, उन पर राजद्रोह का मुकदमा चलाया और छह साल के देश निकाले का दंड दिया। वर्मा की मांडले जेल में उन्हें रखा गया। छह साल में उनने जेल में रहकर श्रीगीता का सुंदर भाष्य लिखकर रख दिया। 'गीता रहस्य' नामक इस ग्रंथ ने लाखों सत्याग्रही, देशभक्तों को प्रेरणा दी। "स्वराज्य मेरा जन्म सिद्ध अधिकार है, मैं इसे लेकर रहूँगा" की घोषणा करने वाले तिलक वस्तुतः आजादी की नींव के पत्थर बने।

अखंड ज्योति मार्च २००७

## CONGRATULATIONS



**Mr. Ajeet Kumar** (CS-2018) has performed outstanding in **NATIONAL ENGINEERING OLYMPIAD 6.0** with **AIR 7** in Final Year Computer/IT Engineering conducted in **July 2022**

# DO YOU KNOW

**1. Which of the following is the first calculating device?**

- A. Abacus
- B. Calculator
- C. Turing Machine
- D. Pascaline

**Ans: A**

**2. Who invented mechanical calculator called Pascaline?**

- A. Charles Babbage
- B. Blaise Pascal
- C. Alan Turing
- D. Lee De Forest

**Ans: B**

**3. Who among the following considered as the 'father of artificial intelligence'?**

- A. Charles Babbage
- B. Lee De Forest
- C. John McCarthy
- D. JP Eckert

**Ans: C**

**4. Which was the world's first successful electronic computer?**

- A. PARAM
- B. CRAY-1
- C. Pascaline
- D. ENIAC electronic Numerical Integrator and computer

**Ans: D**

**5. Who among the following used the term computer worm for the first time?**

- A. John Brunner
- B. Alan Turing
- C. John McCarthy
- D. JP Eckert

**Ans: A**

**6. Which was first virus detected on ARPANET, the forerunner of the internet in the early 1970s?**

- A. Exe Flie
- B. Creeper Virus
- C. Peeper Virus
- D. Trozen horse

**Ans: B**

**7. Which of the following is also called translator?**

- A. Data representation
- B. MS-DOS
- C. Operating System
- D. Language Processor

**Ans: D**

**8. How the quality of printer is measured?**

- A. Alphabet per strike
- B. Words per Inch
- C. Strike per Inch
- D. Dots per Inch

**Ans: D**

**9. 5G is the next generation of \_\_\_\_\_ communications.**

- A. Wireless
- B. Wired
- C. Both of above
- D. None of above

**Ans: A**

**10. \_\_\_\_\_ solutions are preferred for enhanced security and privacy by the users.**

- A. Public cloud
- B. Private cloud
- C. Hybrid cloud
- D. None of above

**Ans: B**