

SPEED e- NEWSLETTER



Main Article

Top 10 inventions

Here are the most popular inventions researched by team of about.com (a part of New York Times group).

1. The Telephone



The telephone is an instrument that converts voice and sound signals into electrical impulses for transmission by wire to a different location, where another telephone receives the electrical impulses and turns them back into recognizable sounds. In 1875, Alexander Graham Bell built the first telephone that transmitted electrically the human voice.

2. Computers



There are many major milestones in the history of computers, starting with 1936, when Konrad Zuse built the first freely programmable computer

3. Television



In 1884, Paul Nipkow sent images over wires using a rotating metal disk technology with 18 lines of resolution. Television then evolved along two paths,

mechanical based on Nipkow's rotating disks, and electronic based on the cathode ray tube. American Charles Jenkins and Scotsman John Baird followed the mechanical model while Philo Farnsworth, working independently in San Francisco, and Russian émigré Vladimir Zworykin, working for Westinghouse and later RCA, advanced the electronic model.

4. The Car



In 1769, the very first self-propelled road vehicle was invented by French mechanic, Nicolas Joseph Cugnot. However, it was a steam-powered model. In 1885, Karl Benz designed and built the world's first practical automobile to be powered by an internal-combustion engine. In 1885, Gottlieb Daimler took the internal combustion engine a step further and patented what is generally recognized as the prototype of the modern gas engine and later built the world's first four-wheeled motor vehicle.

5. The Cotton Gin



Eli Whitney patented the cotton gin on March 14, 1794. The cotton gin is a machine that separates seeds, hulls and other unwanted materials from cotton after it has been picked.

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Top 10 inventions

6. The Camera



In 1814, Joseph Nicéphore Niépce created the first photographic image with a camera obscura, however, the image required eight hours of light exposure and later faded. Louis-Jacques-Mandé Daguerre is considered the inventor of the first practical process of photography in 1837.

7. The Steam Engine



Thomas Savery was an English military engineer and inventor who in 1698, patented the first crude steam engine. Thomas Newcomen invented the atmospheric steam engine in 1712. James Watt improved Newcomen's design and invented what is considered the first modern steam engine in 1765.

8. The Sewing Machine



The first functional sewing machine was invented by the French tailor, Barthélemy Thimonnier, in 1830. In 1834, Walter Hunt built America's first (somewhat) successful sewing machine. Elias Howe patented the first lockstitch sewing machine in 1846. Isaac

Singer invented the up-and-down motion mechanism. In 1857, James Gibbs patented the first chain-stitch single-thread sewing machine. Helen Augusta Blanchard patented the first zig-zag stitch machine in 1873.

9. The Light Bulb



Contrary to popular belief, Thomas Alva Edison didn't "invent" the light bulb, but rather he improved upon a 50-year-old idea. In 1809, Humphry Davy, an English chemist, invented the first electric light. In 1878, Sir Joseph Wilson Swan, an English physicist, was the first person to invent a practical and longer-lasting electric lightbulb (13.5 hours) with a carbon fiber filament. In 1879, Thomas Alva Edison invented a carbon filament that burned for forty hours.

10. Penicillin



Penicillin was discovered by Alexander Fleming in 1928. Andrew Moyer patented the first method of industrial production of penicillin in 1948.

Compiled by -

Dr. Nitin Kulkarni
Dept. of Electronic Science,
Fergusson College, Pune
e-mail: nmkulkarni123@yahoo.com

"We love those subjects which we understand and later work on it."

-N. M. Kulkarni

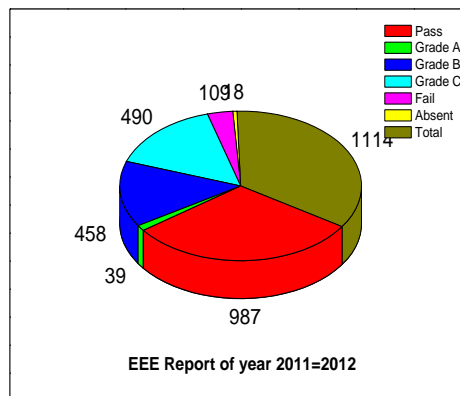
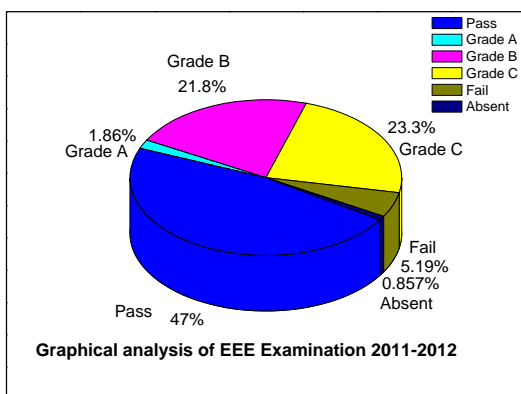
Report of Electronics Excellence Examination (EEE) for the year 2011-2012

The SPEED is conducting EEE examination every year. In the academic year 2011-2012 the (EEE) examination was conducted in various centre through all over Maharashtra . The examination was controlled at college level, whereas the Centers which are involved in the SPEED pre-examination activities. College centers process the filling of examination forms and data of the eligible candidates and also finalize exam center based allotment of roll numbers. The examination pattern was of multiple choice questions type; to be attended in 1 hour duration. Multiple choices: 50 questions 100 marks and **CERTIFICATE OF MERIT** was awarded to every successful student.

Electronics Excellence Examination (EEE) for F.Y./ S.Y.B.Sc. (General) & F.Y./ S.Y. B.Sc. (Computer Science) students) which was held on Saturday, December 3, 2011. There was a overwhelming response from all over Maharashtra, The Examination was conducted with proper planned and as per scheduled. At the beginning SPEED coordinators were identified at a various colleges where the EEE exam was planned. For the proper communication their mobile number and e-mail address were collected. The main role of these coordinators was to create the awareness among the students regarding such type of examination. The registration forms were filled up by them along with Rs. 50/- as registration charges. Roll number were allotted to the students for the Examination. Selected expert teachers with SPEED were asked to send Questions and Question Bank was formed accordingly. The Question papers were set from this Question Bank. These Question papers were sent to various centers through e-mail on 1st December 2011. Coordinators were instructed to make necessary Xerox copies of the Question papers. The expenditure incurred to conduct examination at actual along with Rs. 100/- for the conduct of examination was allowed. These expenses were done through the examination fees collected.

Actual examination was conducted on Saturday **3rd December 2011 between 1.00 pm and 2.00 pm**. On the next day i.e on 4th December 2011 Answer Key was sent to coordinators. The answer papers were assessed with taking guidelines through Answer Key. The result was declared and communicated to centers on 9th February 2012. Centre-wise number of candidates and their mark list as well as gradation was properly worked under able guidance of Prof. A.D.Shaligram. The grades were awarded as given below

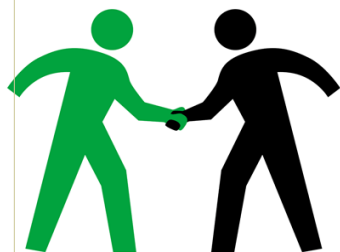
- ❖ 28 to 44 awarded as grade "C"
- ❖ 45 to 69 awarded as grade "B"
- ❖ Above 70 were awarded as grade "A"



The SPEED CERTIFICATEs of the successful candidate were sent to the concern centre after the declaration of result.

Dr M.L Dongare
Coordinator, SPEED- EEE Examination

SPEED Memberships Details



Membership Type	Fees (Rs.)
1. Patron Members	10,000
2. Life Members	2,000
3. Ordinary members	500 (per year)
4. Student	200 (per year)



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Excellence in Electronics
for the betterment of
society"*
-N. M. Kulkarni

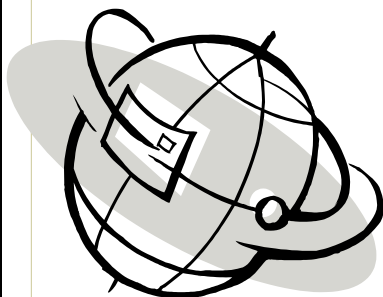
Dr. N. M. Kulkarni (Editor)	nmkulkarni123@yahoo.com	98500 72955
Prof. R. K. Nerkar	rknerkar@rediffmail.com	94235 81016
Dr. M. L. Dongare	mld47@rediffmail.com	98232 44245
Prof. D. B. Gaikwad	dbgaikead@gmail.com	98815 09515
Prof. (Mrs.) Deepa Ramane	ramanedeepa@yahoo.co.in	99210 48350
Dr. N. D. Sali	snitind7@gmail.com	94237 50368

SPEED

Dr. A. D. Shaligram (Chairman)

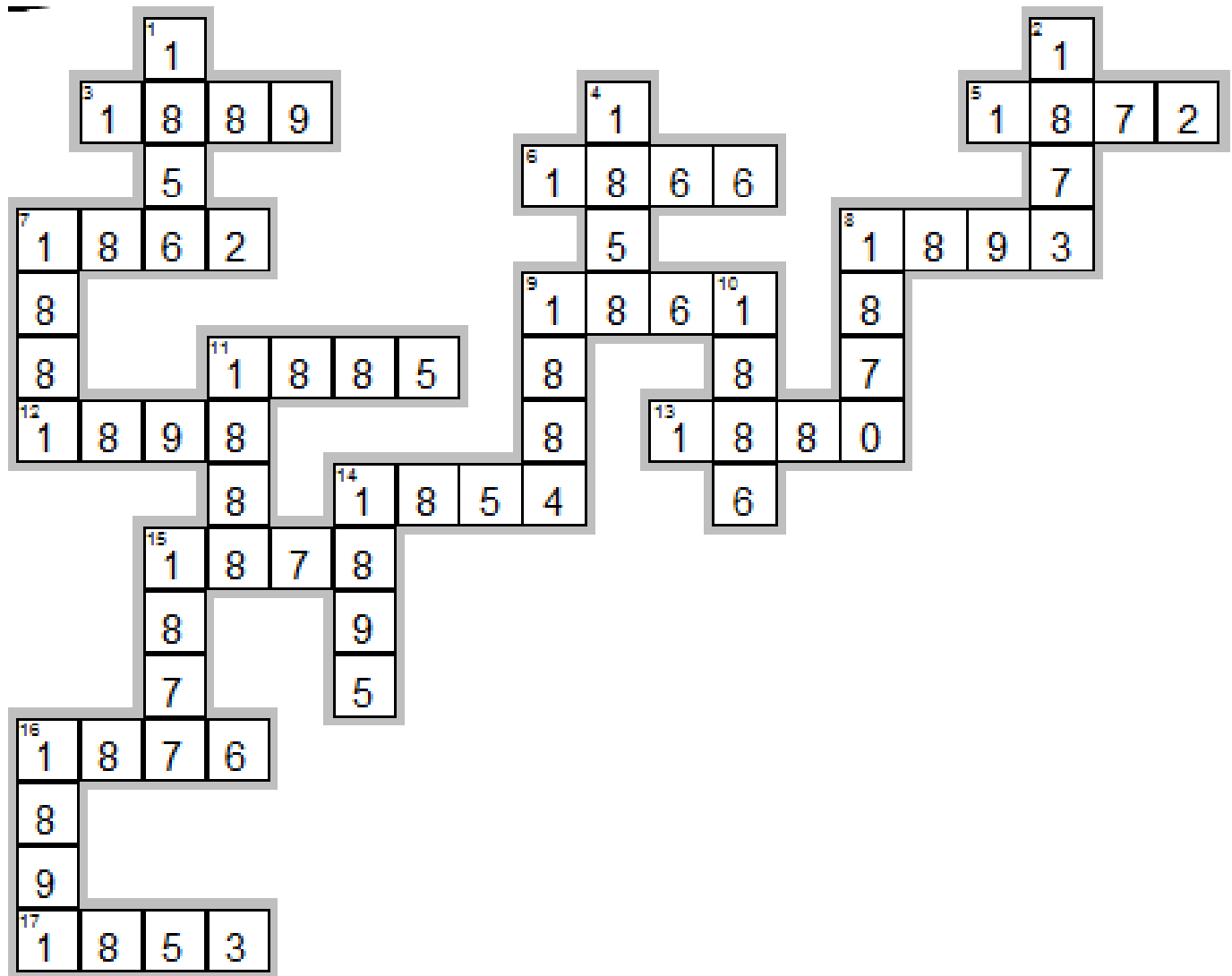
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Answers of Cross-Word Puzzle of June 2012

Crossword on 19th Century Inventions_01



19th Century Inventions_02

Hemant Yashwant Satpute

Editor

Dr. Nitin Kulkarni

Dept. of Electronic Science
Fergusson College,
Pune 411004

Phone 020 6686 6043

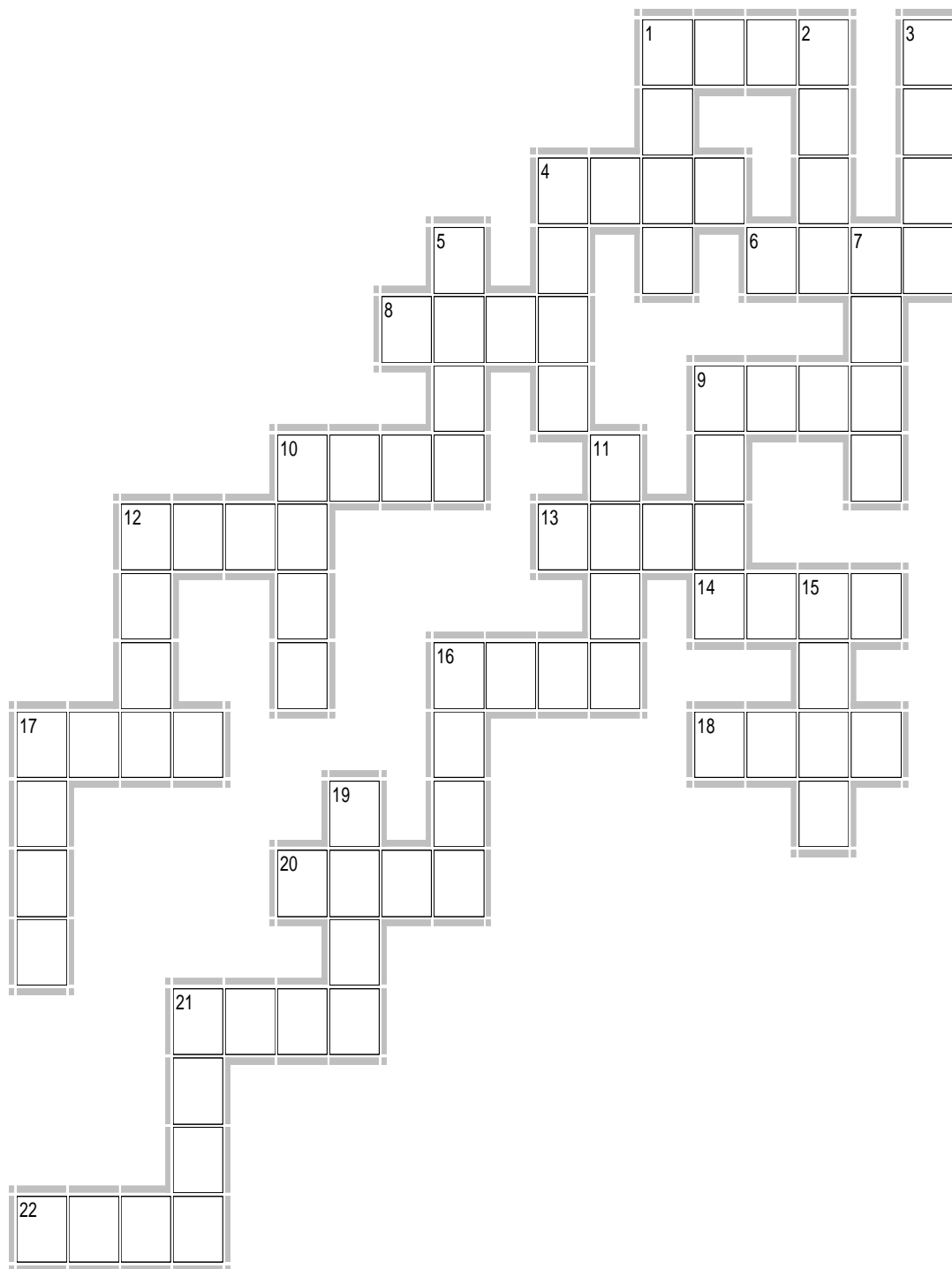
Mobile 92253 40987

E-mail

nmkulkarni123@yahoo.com

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**We will be on the Web
shortly**



EclipseCrossword.com

Student's corner: CROSS WORD PUZZLE

Across

1. In year _____, Electric motor was invented by Michael Faraday. (4)
4. In year _____, Joseph Nicephore Niepce invented Photography. (4)
6. In year _____, Steam Locomotive was invented by George Stephenson. (4)
8. In year _____, William Sturgeon invented the Electromagnet. (4)
9. In year _____, Anaesthesia was invented by Crawford Long. (4)
10. In year _____, the blueprint was invented by Englishman John Herschel. (4)
12. In year _____, Electric telegraph was invented by Charles Wheatstone and Samuel Morse. (4)
13. In year _____, Louice Braille invented Braille. (4)
14. In year _____, Samuel Fahnestock patented a Soda Fountain. (4)
16. In year _____, Sewing machine was invented by Elias Howe. (4)
17. In year _____, First Toy balloon was invented by Michael Faraday. (4)
18. In year _____, Lawn mower was invented by Edwin Beard Budding. (4)
20. In year _____, John Walker invented modern matches. (4)
21. In year _____, Safety pin was invented by Walter Hunt. (4)
22. In year _____, Charles Thurber invented the Typewriter. (4)

Down

1. In year _____, First Mechanical Computer was designed by Charles Babbage. (4)
2. In year _____, Edwin Chadwick wanted to improve the lifestyle of the poor but his priorities were a constant supply of fresh and clean water, toilets in homes and a sewage system that would carry sewage from the cities out to rural areas where it could be treated. (4)
3. In year _____, Richard Trevithick invented the Locomotive. (4)
4. In year _____, First patent for the Dishwasher was given to Joel Houghton. (4)
5. In year _____, An improved printing press was invented by the German Fredrick Koenig. (4)
7. In year _____, The first mass-produced calculator, the Arithmometer was invented by Charles Xavier Thomas de Colmar. (4)
9. In year _____, The stapler was patented by Joseph Dart. (4)
10. In year _____, Jean Bernard Leon Foucault invented the Gyroscope. (4)
11. In year _____, Stethoscope was invented by Rene Theophile Hyacinthe Laennec. (4)
12. In year _____, Charles Wheatstone invented the First patented Steroscope. (4)
15. In year _____, Morse code was invented by Samuel Morse. (4)
16. In year _____, Hungarian, Ignaz Semmelwies, invented Antiseptics. (4)
17. In year _____, Charles Goodyear invented the vulcanization of Rubber. (4)
19. In year _____, Humphry Davy invented the first Electric Light (Arc Lamp). (4)
21. In year _____, Charles Mackintosh invented a Raincoat (The Machintosh). (4)