



Vidya Vikas Education Trust's

Universal College of Engineering

Gujarati Linguistic Minority Institution

CURRENT WAVES

AN INITIATIVE BY EXTC DEPARTMENT

MAGAZINE

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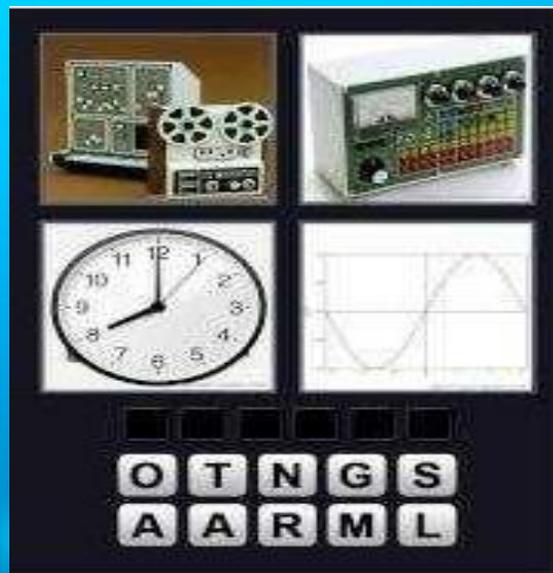
FUN TIME!

Brain teasers!

- There are 50 bikes with a tank that has the capacity to go 100 km. Using these 50 bikes, what is the maximum distance that you can go?
- There are 20 different gulp bait packs of two types, glow and chartreuse, in a tackle box in a completely dark room. What is the minimum number of packs you should grab to ensure you have a matching pair?

Answers 1. 350 km 2. 11

4 PICTURE ONE WORD!!!



ANSWER:- ANALOG

Tips on e-waste management

○ Why Is Electronics Recycling Important?

- Rich Source of Raw Materials Internationally, only 10-15 percent of the gold in e-waste is successfully recovered while the rest is lost. Ironically, electronic waste contains deposits of precious metal estimated to be between 40 and 50 times richer than ores mined from the earth, according to the United Nations.
- Solid Waste Management Because the explosion of growth in the electronics industry, combined with short product life cycle has led to a rapid escalation in the generation of solid waste.
- Toxic Materials Because old electronic devices contain toxic substances such as lead, mercury, cadmium and chromium, proper processing is essential to ensure that these materials are not released into the environment. They may also contain other heavy metals and potentially toxic chemical flame retardants.
- International Movement of Hazardous Waste The uncontrolled movement of e-waste to countries where cheap labor and primitive approaches to recycling have resulted in health risks to residents exposed to the release of toxins continues to an issue of concern.

*****Electronic quiz***-**

q.1) ONE of the examples of active electronic component

- a- capacitor**
- b-transistor**
- c-transformer**
- d-inductor**

q.2) an ac voltage can be converted into a unidirectional voltage by using

- a- Multivibrator circuits**
- b-power amplifier circuits**
- c- rectifier circuit**
- d-potential divider circuits**

q.3) transistor in common- base mode is one

- a- field effect transistor**
- b -ideal voltage source**
- c- none of these**
- d-ideal current source**

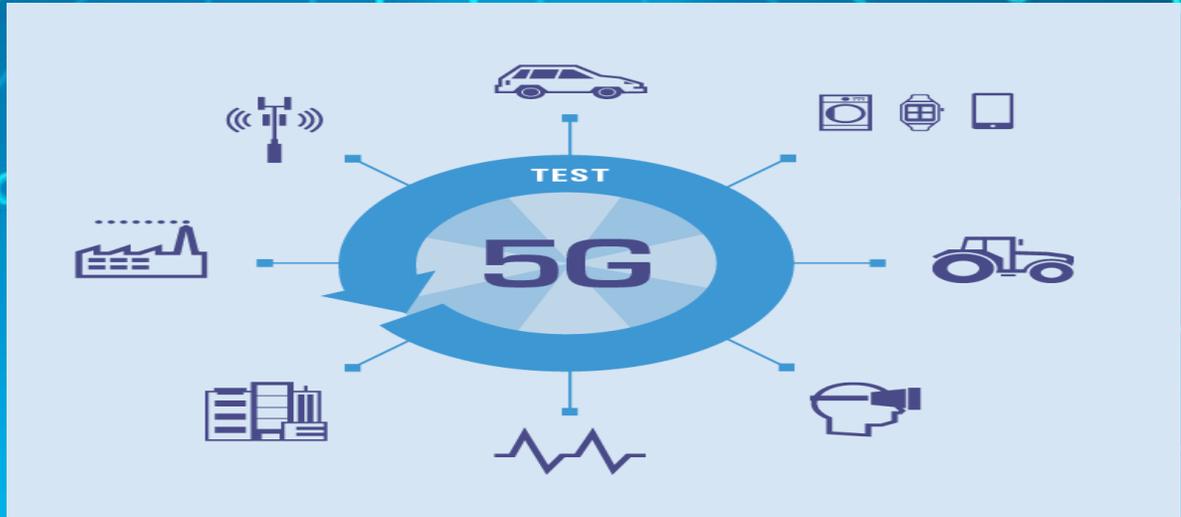
q.4) an ideal voltage source has
a-very low internal resistance
b-zero internal resistance
c-infinite internal resistance
d-very high internal resistance

q.5) an example of a solid-state device
a-vacuum triode
b- field effect transistor
c- pentode

q.6) a zener diode is used as a
a- a multivibrator
b- a voltage regulator
c- an amplifier
d- a rectifier

q.7) what resistor type is found in sips and dips?
a- wirewound
b- metal film
c- thick film
d- metal oxide

FACTS



5G has three primary use cases associated with it—enhanced mobile broadband, massive internet of things connectivity and ultra-reliable, low-latency communications for mission critical services. In the U.S. carriers are racing to commercialize fixed wireless 5G to deliver consumer home broadband services and evolve from there to mobile services. Both Verizon and AT&T plan commercial launches in multiple cities this year. This decided focus on consumer services stands in contrast to the view on 5G elsewhere in the world where industry leaders are looking toward industrial enablement as a key revenue source.

In an interview with RCR Wireless News during 5G Americas' 5G New Horizons Wireless Symposium in Austin, Texas, Colin Willcock, chairman of the 5G Infrastructure Association, said Europe might not be first to deploy the next generation of wireless because ecosystem interests are more focused on enablement of vertical transformation rather than standing up enhanced consumer-facing services.

“In other parts of the world,” Willcock said, “we see perhaps the first systems being deployed earlier, but those systems are typically concentrating more on massive broadband whereas in Europe what we see is maybe not so much first deployment now, but a very broad range of trials...to try out a lot of these important ideas with the vertical industries which will actually be the test of whether 5G is successful or not.”

This is in step with what major global vendors are discussing. Caroline Chan, Intel VP and GM of the 5G Infrastructure Division, said during a recent panel discussion hosted by Cradlepoint, “We all know that 5G, the way that we talk about, is going to take a lot investment. Where are we going to get the return on investment?”

ACHIEVEMENTS

Batch (2014 - 2018)



GOLD Medalist

Shivangi Chavan



SILVER Medalist

Kavitha Nair

EVENT

Presentation Around the World (PATW)

(in association with IET)



LIGHTING OF LAMP



Siddhesh Nakashe (Student Coordinator)

Universal college of Engineering is hosted an event PATW (University Level) on **9th March** under IET for students of aa departments providing a platform to young minds to explore and showcase their skills.



Rajesh Patwardhan (IET Chairman)



Prof. Neelam Bhoi (Faculty Coordinator)

Topic: Mixed Reality in Health care



While presenting **Mr. Ayush Shetty (Computer Engineering)**
(Runner - up)

Topic: Pavement application of NO - Fines Concrete



Mr. Rudra Chavan (Civil Engineering)
WINNER

Industrial Visit (SE EXTC)



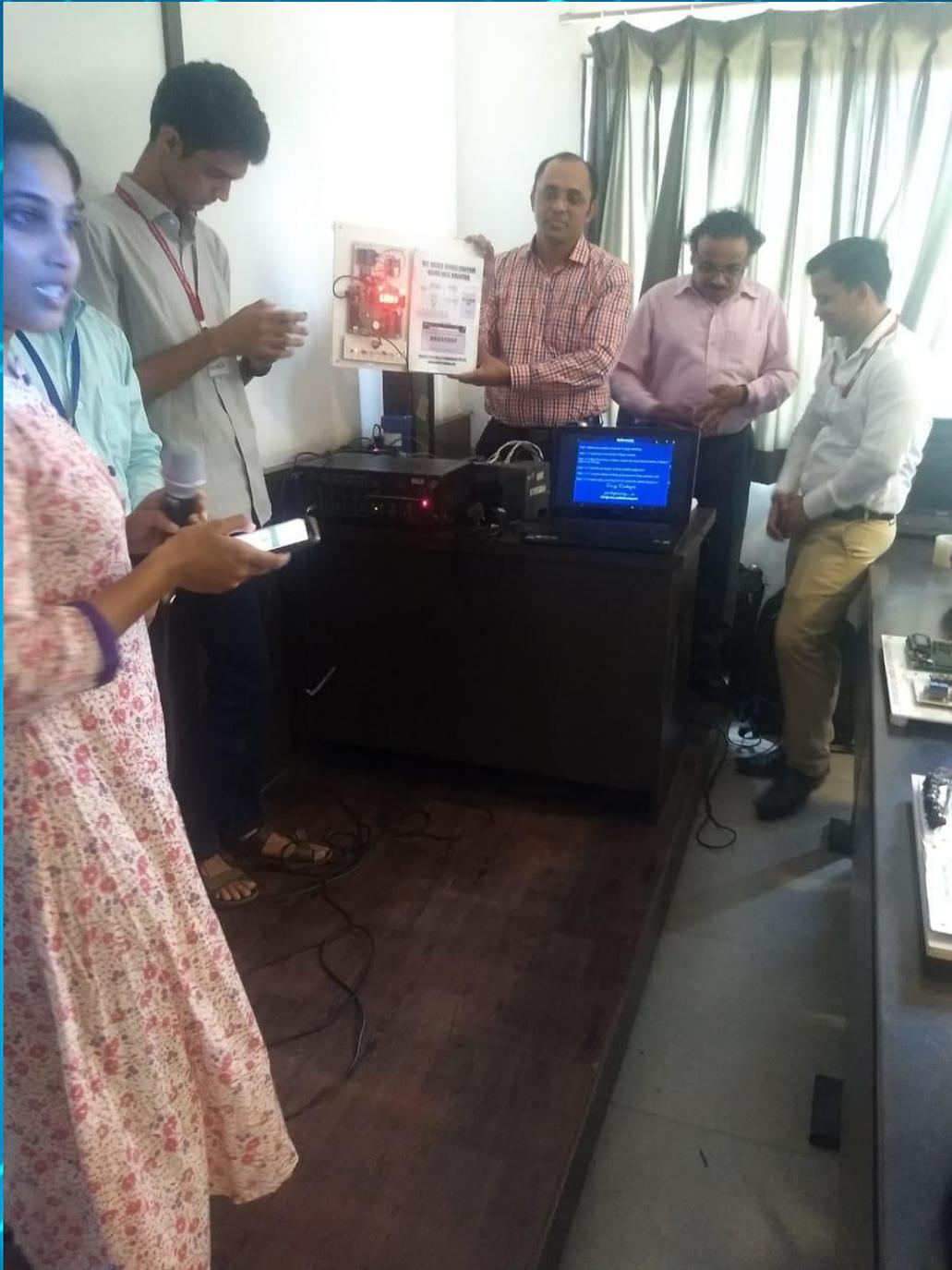
CMC Marble industry visited on 22nd March 2019



Alok textiles visited on 23rd March 2019

Lecture from Experts on **13th March** on topic
AUTOMATION by Mr. Asrar Khan





Mr. Avnish Bangar showing demo to our students

Parents Teacher Meet (PTI) on 30th March 2019



HoD addressing to parents

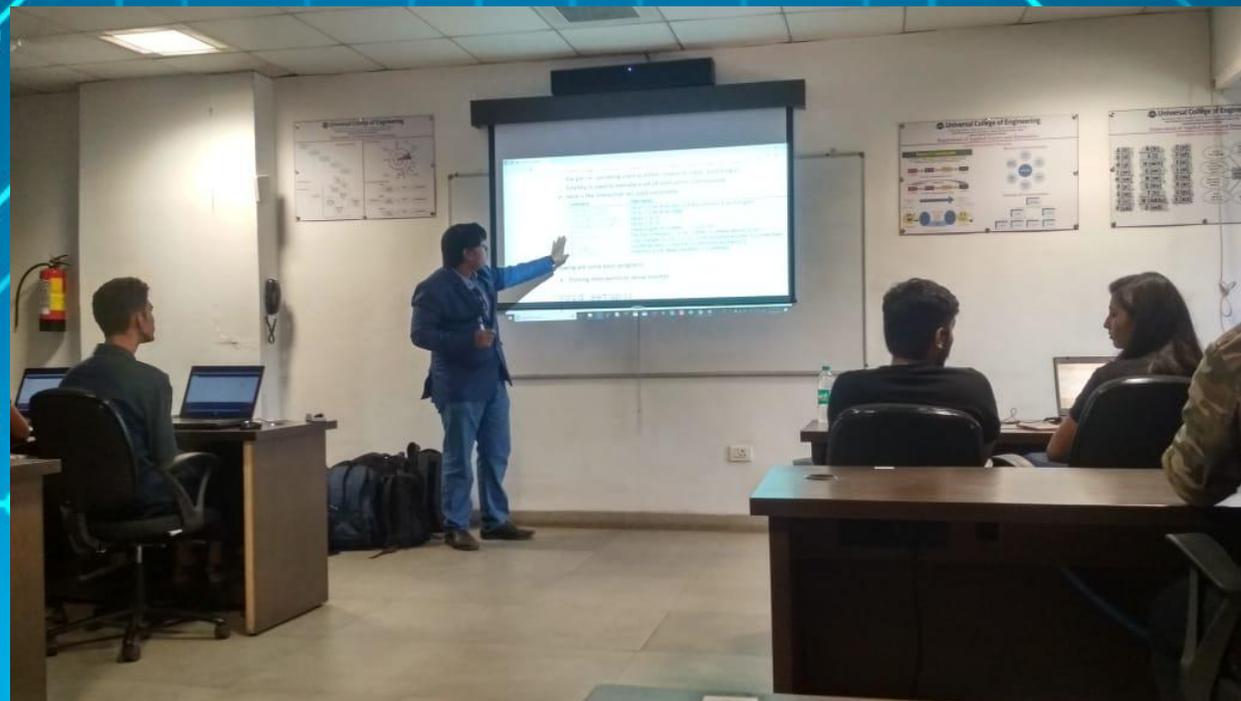


College TPO addressing to parents

Visit to **Regional Meteorological Centre, Mumbai** on **6th March 2019**



IOT Workshop on 30th March 2019 under IET



Speaker: Kedar Davate



In all 30 students participated.