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1.What does the word “Cognizant” mean? A. Having knowledge or awareness.

2.What are the recent acquisitions of CTS? A. KBACE(Jan27,2016)

TriZetto Corp (Sept,2014) itaas Interactive TV Solutions (Apr, 2014) ValueSource Technologies (Oct, 2013) Equinox Consulting (Oct,2013)

CTS ORIENTED QUESTIONS-2

3.What is the difference between “Life of confidence” & “Life of hope”?

A.It’s 2014 CTS-HR question and the selected candidates answer for that question is “ Sir,I prepared very well for my interview .So,Iam confident that I will be selected for sure.Suppose if Iam not well prepared then I can just try and the result is uncertain that is the life of hope.”

4.Definition and real life example of Mechatronics?

A.It is a hybrid technology that combines both mechanics and electronics

Ex:Driverless car

5. Definition and real life example of Home automation ?

A. Home automation is the use of one or more computers to control basic home functions and features automatically and sometimes remotely. An automated home is sometimes called a smart home .

6. Definition and real life example of Industrial automation ?

S→stream specific question

A.Industrial automation is the use of control systems, such as computers or robots, and information technologies for handling different processes and machineries in an industry to replace a human being. It is the second step beyond mechanization in the scope of industrialization

Ex:Assembly line

7. Definition and real life example of Robotics?

A. Robotics is the branch of mechanical engineering, electrical engineering and computer science that deals with design, construction, and as well as computer systems for their control, sensory feedback, and information processing.

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8. Definition and real life examples of Artificial intelligence?

A. A branch of computer science dealing with the simulation of intelligent behavior in computers.

Ex:Video games,Purchase prediction on Amazon ,etc

9.What is a blackbox?

A. A usually complicated electronic device whose internal mechanism is usually hidden from or mysterious to the user; broadly : anything that has mysterious or unknown internal functions or mechanisms.

(OR)

A device used in an airplane to record flight information (such as altitude or airspeed) or the voices of the pilots and crew

10.How can machine be made to think like humans?

A.With the help of artificial intelligence and giving it access to all sort of data through internet so that it can collect and analyze the data and take decisions accordingly.

11.Embedded system Vs intelligent system

A. An embedded system is a computer system with a dedicated function within a larger mechanical or electrical system, often with real-time computing constraints. It is embedded as part of a complete

device often including hardware and mechanical parts.Where as An intelligent system is a machine with an embedded system/ computer that has the capacity to gather and analyze data and communicate with other systems.

S.12.Is GSM better than CDMA or not if yes/no why?(ECE students must give technical answer)

A. GSM is combination of FDMA and TDMA.Meaning, the 100 people who want to communicate can be divided into five groups of 20 each in different rooms where they can communicate one after another in a queue.

Global System for Mobile(GSM)

CDMA is just as the name suggests CDMA access technology. All the 100 people will communicate simultaneously in same room, but each person will have a unique code to differentiate that person from others.

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Code Division Multiple Access. CDMA is a 3G wireless technology that competes with GSM and is used by Verizon® and Sprint® in the U.S., along with Bell®, Telus®, Lynx®, SaskTel®, and TBayTel® in Canada

13.Touch screen functioning(not in general terms)

A. <http://www.computerworld.com/article/2491831/computer-hardware/computer-hardware-how-it-works-the-technology-of-touch-screens.html#>

14.Diesel engine Vs petrol engine

A. <https://priyankavjoseph.wordpress.com/2010/01/21/what-is-the-difference-between-a-diesel-engine-and-petrol-engine/#>

15.Can a diesel engine be replaced with a petrol engine?

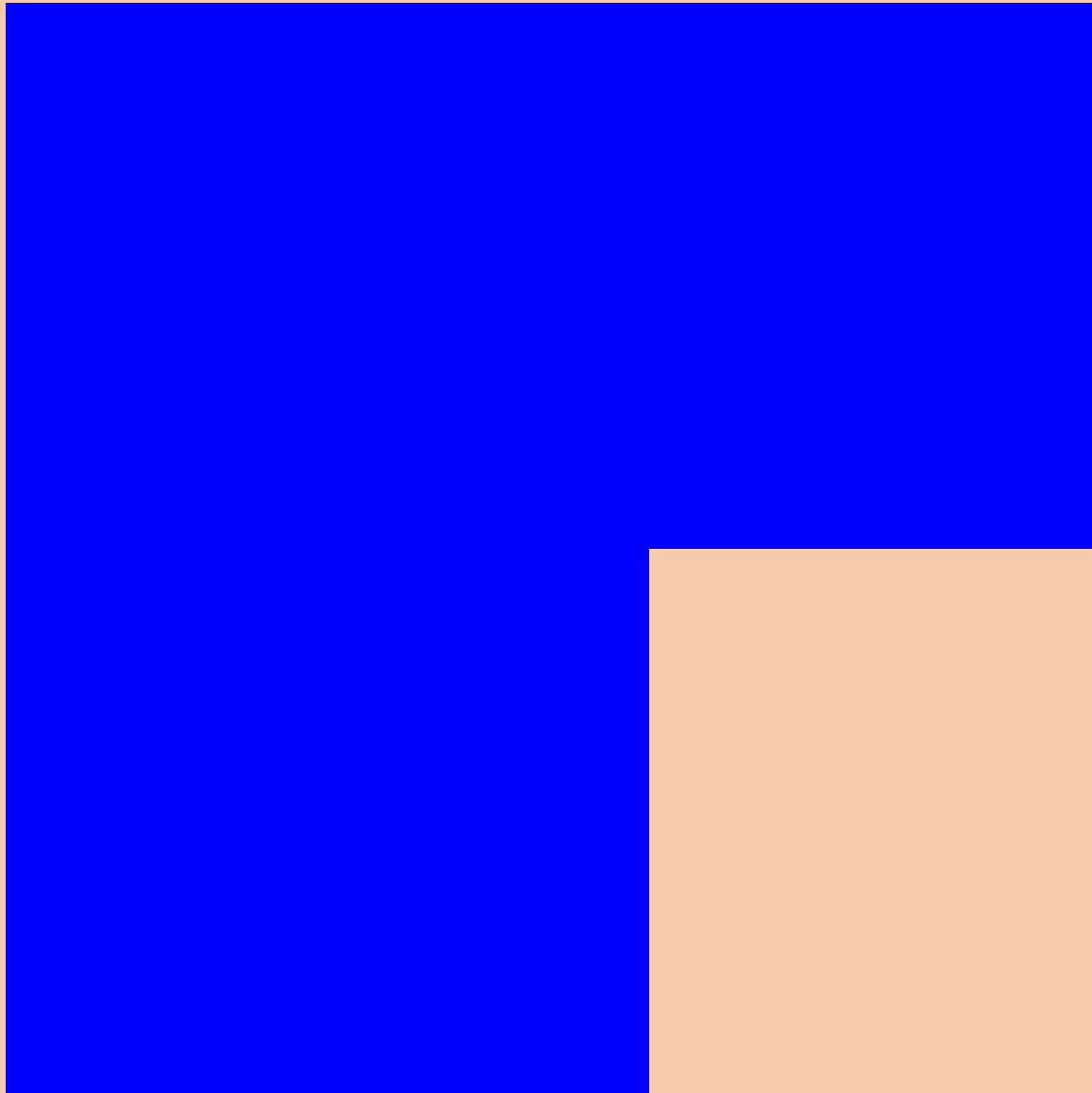
A. Yes . Replacing a diesel engine with a NA petrol one can be little bit easier when compared the reverse . Fuel pumps are already available but pump pressure should be changed according to the petrol engines . And also the spark plug circuits have to be introduced . Because the petrol engines are spark

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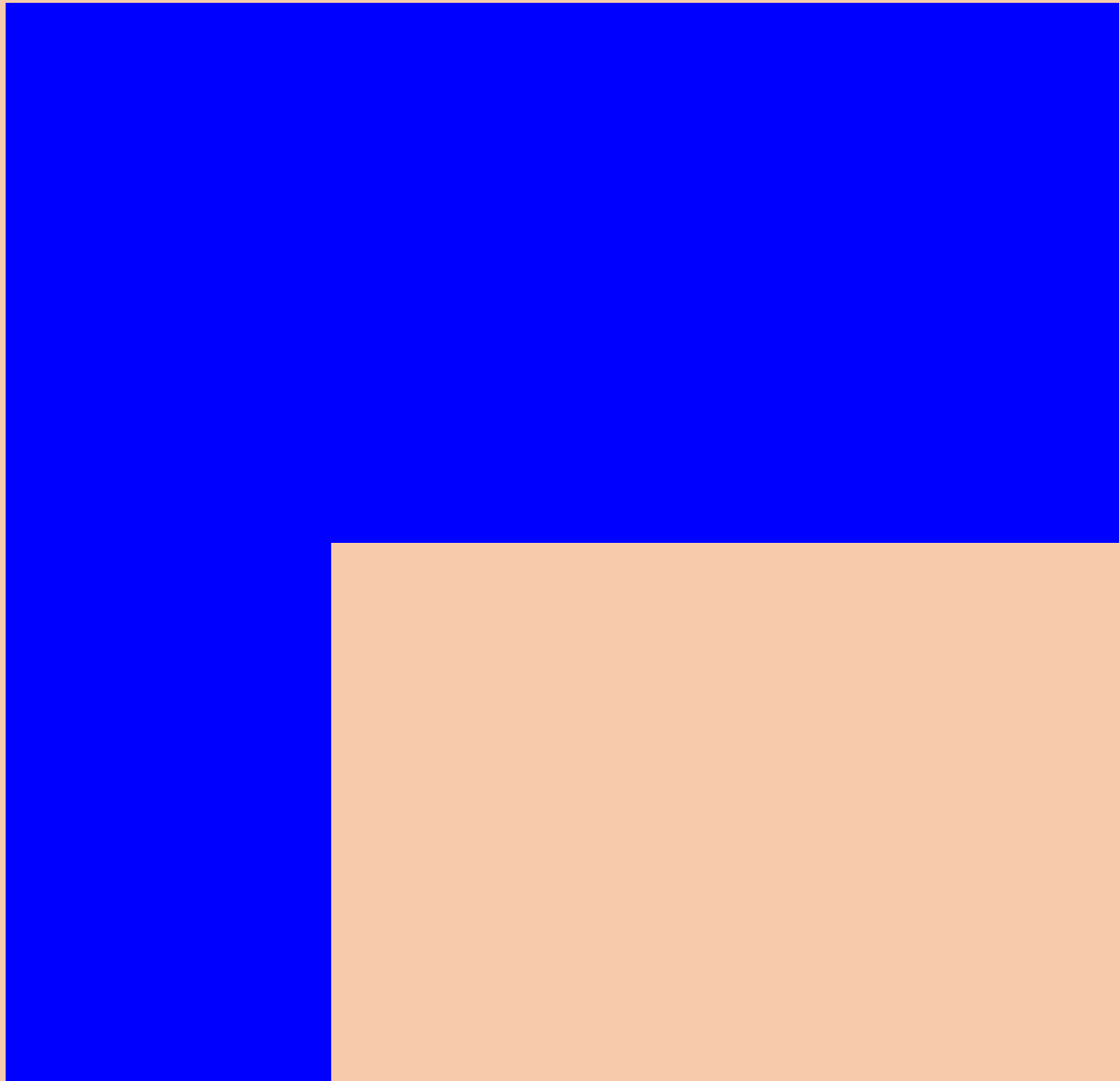


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ignitioned. The gear boxes should be also changed with the engines as they have a different ratios while compared to the diesel ones .

16.Why diesel engines don't have spark plugs ?

A. diesel engines produce a higher compression ratio so that the mixture gets hot and ignites by itself, and that's why diesel engine do not NEED spark plugs. But because of high compression ratio one has to make diesel engine heavy and rigid.

17.Types of capacitors?

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A.Ceramic capacitors,Film capacitors,Power film capacitor,Electrolytic capacitors,Super capacitors,Variable capacitors

18.Error Vs exemption

A. Error is a abnormal condition whenever it occurs execution of the program is stopped. A C++ exception is a response to an exceptional circumstance that arises while a program is running, such as an attempt to divide by zero. Exceptions provide a way to transfer control from one part of a program to another

S.19.Working of a 4-stroke engine?(Only for Mechanical Engineering students)

A. A four-stroke engine (also known as four cycle) is an internal combustion (IC) engine in which the piston completes four separate strokes while turning a crankshaft. A stroke refers to the full travel of the piston along the cylinder, in either direction.

S.20.Which is more stronger “solid steel rod” or “hollow steel pipe”?(Civil students are expected to give the answer with technical explanation)

A. The hollow pipe, because the thicker pipe defies buckling failure to much higher loads.

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