



Savli Technology & Business Incubator (STBI)

Dept. of Science & Technology, Govt. of Gujarat
EPIP/CFC Building, GIDC-SAVLI, Manjusar, Vadodara-391 775

Website: www.stbi.gujarat.gov.in | Email: dir-stbi-vdr@gujarat.gov.in



Facility Assistant

Answer Key for Electronics/Electrical Engineering

Date of Exam: 20th February 2021

| Questions | Answers are Bold |
|---|---------------------------------|
| General Studies | |
| B2CD, _____, BCD4, B5CD, BC6D | |
| | B ₂ C ₂ D |
| | BC₃D |
| | B ₂ C ₃ D |
| | BCD ₇ |
| Pointing to Satish, Ashok said, "He is the son of my sister's only brother". How is Satish related to Ashok? | |
| | Son |
| | Grandson |
| | Nephew |
| | Nephew |
| M is to the East of D, F is to the south of D and K is to the East of F. M is in which direction with respect to K? | |
| | South-West |
| | North-West |
| | North |
| | Data inadequate |
| Candle : Wax :: Paper : ? | |
| | Wood |
| | Tree |
| | Bamboo |
| | pulp |
| In a queue, Amrita is 10 th from the front while Mukul is 25 th from behind and Mamta is just in the middle of the two. If there be 50 persons in the queue, what position does Mamta occupy from the front ? | |
| | 20 th |
| | 19 th |
| | 18th |
| | 17 th |
| Find the least number by which 1470 must be divided to get a number which is a perfect square. | |



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| | |
|--|--|
| | 6 |
| | 9 |
| | 12 |
| | 30 |
| Uma wants to gain 15% profit on her sale of sugar. She buys 120 kg of sugar at Rs. 24 per kg to mix with 180 kg of sugar bought at Rs. 28 per kg. She sells the sugar mix at | |
| | Rs. 8159 |
| | Rs. 9108 |
| | Rs. 9756 |
| | Rs. 8564 |
| Pick the odd man out:154, 235, 352, 460, 324 | |
| | 154 |
| | 235 |
| | 324 |
| | 631 |
| A father is 4 times as old as his son. 8 years hence, the ratio of father's age to the son's age will be 20:7. What is the sum of their present ages? | |
| | 50 |
| | 72 |
| | 68 |
| | 65 |
| If Ram and Shyam together can build a house in 10 days; Ram and Arun can build it together in 12 days and Shyam and Arun can build it in 15 days. Shyam, Ram and Arun start working together. In how many days they build the house? | |
| | 6 days |
| | 4 days |
| | 8 days |
| | 12 days |
| The business plan should be prepared by: | |
| | Entrepreneurs |
| | Consultants |
| | Engineers |
| | Small business administration services |



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| | |
|---|-------------------------|
| Globalisation is the term used to describe process of removal of cross border restriction on | |
| | Investment |
| | Foreign Trade |
| | Both (A) and (B) |
| | None of the above |
| Most of the time Innovative entrepreneurs face special issues in raising: | |
| | Development capital |
| | Structured capital |
| | Human capital |
| | Seed capital |
| What is the process by which individuals pursue opportunities without regard to resources they currently control? | |
| | Startup management |
| | Entrepreneurship |
| | Financial analysis |
| | Feasibility planning |
| The profits of recognised Startups are exempted from income-tax for how many consecutive years? | |
| | 2 years |
| | 3 years |
| | 4 years |
| | 1 year |
| Computer Monitor is also known as : | |
| | DVU |
| | uvd |
| | vdu |
| | cctv |
| Which of the following memories must be refreshed many times per second? | |
| | Static RAM |
| | DYnamic RAM |
| | EPROM |
| | ROM |
| USB is a device used to store data and it stands for | |



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| | |
|--|------------------------------|
| | Unlimited Service Band |
| | Unlimited Serial Bus |
| | Universal Serial Bus |
| | Universal Service Bus |
| A feature of MS Office that saves the document automatically after certain interval is called ____ | |
| | Save |
| | Save As |
| | Auto Save |
| | Backup |
| Which functioning Excel tells how many numeric entries are there ? | |
| | NUM |
| | COUNT |
| | SUM |
| | CHKNUM |
| Which state govt gave the nod to distribute COVID-19 vaccines free of cost? | |
| | Kerala |
| | Bihar |
| | Delhi |
| | West Bengal |
| The Uttar Pradesh government has approved Ganga Expressway project between which cities? | |
| | Roorkeeto Ghaziabad |
| | Haridwar to Allahabad |
| | Lucknow to Agra |
| | Haldwani to Ghaziabad |
| Who is the author of book titled Indian Icon - A Cult called Royal Enfield? | |
| | Amrit Raj |
| | Rohinton Mistry |
| | R.K. Narayan |
| | Amitav Ghosh |
| Which of the following is used in pencils? | |
| | Graphite |



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| | |
|---|--------------------------------|
| | Silicon |
| | Charcoal |
| | Phosphorous |
| Epoxy resins are used as | |
| | detergents |
| | insecticides |
| | adhesives |
| | moth repellents |
| What is the minimum age prescribed by the Constitution of India for a candidate to be elected as Vice president of India? | |
| | 18 years |
| | 25 years |
| | 30 years |
| | 35 years |
| In which year, first general elections to Lok Sabha were held in India? | |
| | 1948 |
| | 1949 |
| | 1950 |
| | 1951 |
| If the President wants to resign, to whom shall he address his letter of resignation? | |
| | Chief Justice of India |
| | Prime Minister of India |
| | Vice-President of India |
| | Speaker of Lok Sabha |
| To whom the Council of Ministers are collectively responsible? | |
| | The President |
| | The Prime Minister |
| | The Lok Sabha |
| | The Rajya Sabha |
| Which one of the following bodies regularly reviews the progress of the Five Year Plans? | |
| | National Development Council |
| | Planning Commission |



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| | |
|---|---|
| | Cabinet Secretariat |
| | Union Cabinet |
| English Language skill | |
| <p>Read the following passage and answer the questions that follow: Asian carp were introduced to American waters during the 1970s. Southern fish farmers began importing them to help clean their ponds. Asian carp are phenomenal cleaners. Unfortunately, it didn't take too long for them to escape from these ponds, perhaps from flooding, and get into the Mississippi River. From there they have followed their natural tendency to swim upstream. This tendency may lead them into the Great Lakes and Canada, a nightmare scenario for fisherman. Question: Which statement best expresses the main idea of the paragraph?</p> | |
| | Asian carp were brought to America during the 1970s to assist Southern fish farmers. |
| | Asian carp are remarkable cleaners, which makes them highly desirable fish to have. |
| | Asian carp were supposed to clean ponds but they escaped and are headed north. |
| | Asian carp are excellent at swimming upstream and cleaning up plankton. |
| <p>Read the following passage and answer the questions that follow: Asian carp are large fish. One species, the silver carp, can grow to be 100 pounds. But despite their size, they feed from the bottom of the food chain. That means that they eat plankton and algae. A one hundred pound fish can eat an awful lot of sea scum, and some of it is toxic. The carp are resistant to the toxins, but we aren't. Some Asian carp are hazardous to eat because they have so many algal toxins in their systems. They also have lots of tiny bones in their meat, which makes them difficult to prepare. Asian carp is not a popular delicacy. Question: Which is not a reason why Asian carp is an unpopular menu item?</p> | |
| | It is hard to prepare because of all the little bones. |
| | They are a very fattening fish. |
| | Some of them are toxic and unsafe to eat. |
| | They are bottom feeders. |
| <p>Read the following passage and answer the questions that follow: Introducing the Asian carp into waters that have not known them can be devastating. Beneath the surface of the water is a unique ecosystem. This system rests delicately on a balance that has evolved over millions of years. Then along come these big, hungry bottom feeders to mess up everything. They breed rapidly and densely populate the waters. Worse still, they compete with the native bottom feeders. The native bottom feeders are smaller. Larger, tastier fish like salmon eat them. The native bottom feeders are an important part of the ecosystem. When the Asian carp outperform them, the whole food chain suffers, all the way up to the people. Question: Which best describes the text structure of the paragraph?</p> | |
| | Chronological order |
| | Cause and effect |
| | Compare and contrast |
| | Problem and solution |



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Read the following passage and answer the questions that follow: A Silver carp can be 100 pounds. There is a reason why they are also known as "flying carp." This particular species of Asian carp has a tendency to jump when frightened. They can jump up to ten feet in the air, and the sound of boat motors frightens them. In 2003 a woman jetskier collided with one and broke her nose and a vertebra. Asian carp pose a serious threat to water skiers and boaters. Question: Which person would be most threatened by silver carp in a local water source?

| | |
|--|---------------------|
| | A waterskier |
| | A chicken farmer |
| | A bungee jumper |
| | A beachgoer |

Read the following passage and answer the questions that follow: Asian carp are large fish. One species, the silver carp, can grow to be 100 pounds. But despite their size, they feed from the bottom of the food chain. That means that they eat plankton and algae. A one hundred pound fish can eat an awful lot of sea scum, and some of it is toxic. The carp are resistant to the toxins, but we aren't. Some Asian carp are hazardous to eat because they have so many algal toxins in their systems. They also have lots of tiny bones in their meat, which makes them difficult to prepare. Asian carp is not a popular delicacy. Question: Which best describes the word resistant as it is used in the third paragraph?

| | |
|--|---------------------------------------|
| | To be allergic to something |
| | To be unaware of something |
| | To be unaffected by something |
| | To be attracted or drawn to something |

Read the following passage and answer the questions that follow: Asian carp are difficult to catch. Since they eat from the bottom, they do not go for lures or baits like most large fish. The best way to stop them is to keep them out. The Great Lakes are connected to the Mississippi River through the 28-mile Chicago Sanitary and Ship Canal. Question: Why are Asian carp are difficult to catch?

| | |
|--|------------------------------|
| | They go for lures. |
| | They go for baits. |
| | They eat from bottom. |
| | None of the following |

Read the following passage and answer the questions that follow: Garbage cans are not magical portals. Trash does not disappear when you toss it in a can. Yet, the average American throws away an estimated 1,600 pounds of waste each year. If there are no magic garbage fairies, where does all that trash go? There are four methods to managing waste: recycling, landfilling, composting, and incinerating. Question: Which best explains why the author begins the text by talking about magical garbage fairies?

| | |
|--|--|
| | He is putting a common misconception to rest. |
| | He is trying to get the reader's attention. |
| | He is addressing his concern in a serious way. |
| | He is supporting his argument with evidence. |

Read the following passage and answer the questions that follow: Garbage cans are not magical portals. Trash does not disappear when you toss it in a can. Yet, the average American throws away an estimated 1,600 pounds



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of waste each year. If there are no magic garbage fairies, where does all that trash go? There are four methods to managing waste: recycling, landfilling, composting, and incinerating. Question: Which best defines the meaning of incineration as it is used in the text?

| | |
|--|--|
| | To bury waste materials in a large hole |
| | To allow waste products to decompose and become fertilizer |
| | To burn waste materials and harvest the energy |
| | To turn waste materials into products like book covers |

Read the following passage and answer the questions that follow: Landfilling is the oldest method of managing waste. In its simplest form, landfilling is when people bury garbage in a hole. Over time the practice of landfilling has advanced. Garbage is compacted before it is thrown into the hole. In this way more garbage can fit in each landfill. Large liners are placed in the bottom of landfills so that toxic garbage juice doesn't get into the ground water. Sadly, these liners don't always work. Landfills may pollute the local water supply. Not to mention that all of that garbage stinks. Nobody wants to live next to a landfill. This makes it hard to find new locations for landfills. Question: Which was not cited in the paragraph as an issue with landfilling?

| | |
|--|--|
| | Landfills are smelly. |
| | Usable materials are wasted in landfills. |
| | Landfills may pollute the water supply. |
| | It is difficult to find locations for landfills. |

Read the following passage and answer the questions that follow: Landfilling is the oldest method of managing waste. In its simplest form, landfilling is when people bury garbage in a hole. Over time the practice of landfilling has advanced. Garbage is compacted before it is thrown into the hole. In this way more garbage can fit in each landfill. Large liners are placed in the bottom of landfills so that toxic garbage juice doesn't get into the ground water. Sadly, these liners don't always work. Landfills may pollute the local water supply. Not to mention that all of that garbage stinks. Nobody wants to live next to a landfill. This makes it hard to find new locations for landfills. Question: Which best expresses the meaning of the word compacted as it is used in the paragraph?

| | |
|--|--|
| | Garbage is burned before it is thrown in a hole. |
| | Garbage is put in trucks before it is thrown in a hole. |
| | Garbage is crushed smaller before it is thrown in a hole. |
| | Garbage is put in a can before it is thrown in a hole. |

Read the following passage and answer the questions that follow: As landfill space increases, interest in composting grows. Compositing is when people pile up organic matter, such as food waste, and allow it to decompose. The product of this decomposition is compost. Compost can be added to the soil to make the soil richer and better for growing crops. While composting is easy to do onsite somewhere, like home or school, it's hard to do after the garbage gets all mixed up. This is because plastic and other inorganic materials must be removed from the compost pile or they will pollute the soil. There's a lot of plastic in garbage, which makes it hard to compost on a large scale. Question: . Which best expresses the main idea of the paragraph?

| | |
|--|--|
| | Landfills take up a lot of space. |
| | Composting is good for the soil but it can be hard to do. |
| | The process of composting is very complicated and scientific. |



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| | |
|---|---|
| | There is a lot of plastic garbage in landfills. |
| Read the following passage and answer the questions that follow: As landfill space increases, interest in composting grows. Compositing is when people pile up organic matter, such as food waste, and allow it to decompose. The product of this decomposition is compost. Compost can be added to the soil to make the soil richer and better for growing crops. While composting is easy to do onsite somewhere, like home or school, it's hard to do after the garbage gets all mixed up. This is because plastic and other inorganic materials must be removed from the compost pile or they will pollute the soil. There's a lot of plastic in garbage, which makes it hard to compost on a large scale. Question: Which best explains why composting is not feasible on a large scale? | |
| | People wouldn't want to touch all of that gross rotting food. |
| | It would smell too bad in densely populated cities. |
| | It would attract rodents that would spread disease. |
| | Plastic would get into the compost and turn it into a pollutant. |
| Read the following passage and answer the questions that follow: A homeopathy is a form of alternative medicine, first proposed by German physician Samuel Hahnemann in 1796 that attempts to treat patients with heavily diluted medicines. Homeopathic remedies are prepared by serial dilution with shaking by forceful striking, which homeopaths term succession after each dilution under the assumption that this increases the effect of the treatment. Homeopaths call this process potentization. Dilution often continues until none of the original substance remains. Question: Homeopathy treats patients with? | |
| | Heavy medicine |
| | strong medicine |
| | diluted medicine |
| | concentrated medicine |
| Read the following passage and answer the questions that follow: A homeopathy is a form of alternative medicine, first proposed by German physician Samuel Hahnemann in 1796 that attempts to treat patients with heavily diluted medicines. Homeopathic remedies are prepared by serial dilution with shaking by forceful striking, which homeopaths term succession after each dilution under the assumption that this increases the effect of the treatment. Homeopaths call this process potentization. Dilution often continues until none of the original substance remains. Question: Homeopathic remedies are prepared by serial dilution with shaking by forceful striking, the procedure is known as? | |
| | Succession |
| | Potentialization |
| | dilution |
| | convention |
| Read the following passage and answer the questions that follow: "Modern homeopaths have proposed that 'water has a memory that allows homeopathic preparations to work without any of the original substance; however, there are no verified observations nor scientifically plausible physical mechanisms for such a phenomenon. The lack of convincing scientific evidence supporting homeopathy's efficacy and its use of remedies lacking active ingredients have caused homeopathy to be described as pseudoscience." Questions: Homeopathy is also termed as pseudoscience because: | |
| | it is based on false notions effectiveness |



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| | |
|---|--|
| | it lacks scientific evidence on its effectiveness |
| | it has side effects |
| | it is a slow treatment |
| <p>Read the following passage and answer the questions that follow: Modern homeopaths have proposed that 'water has a memory that allows homeopathic preparations to work without any of the original substance; however, there are no verified observations nor scientifically plausible physical mechanisms for such a phenomenon. The lack of convincing scientific evidence supporting homeopathy's efficacy and its use of remedies lacking active ingredients have caused homeopathy to be described as pseudoscience. Questions: The word in the passage which means the same as the facts /objects that make you believe that something is true:</p> | |
| | Pharmacolo |
| | placebo |
| | accredited |
| | evidence |
| <p>Read the following passage and answer the questions that follow: The idea of euthanasia, of hastening the death of someone from motives of compassion, covers two main situations. The first is where someone is close to death and can be kept alive briefly, with intensive medical care. The official reason for the use of every possible technique on patients, for whom there seems no hope, is that we never know that there is no hope of at least a brief recovery. The second situation, in which it is proposed to end the life of someone who is not expected to die at once from natural causes, is more morally doubtful. Question: Euthanasia means?</p> | |
| | a place in Asia |
| | bringing about gentle and easy death |
| | enthusiasm |
| | the youth in Asia |
| <p>Read the following passage and answer the questions that follow: Everything that is alive needs energy. All animals get the energy they need from food. People are animals. Think about the human body as an amazing machine. It can do all kinds of things for us. Food is the fuel that helps keep the amazing machine running. Plants use sunlight to make their own food. Animals are not able to do that. Some animals eat plants. Some animals eat other animals as meat. Some animals, like people, eat both plants and animals. Since plants make their own food using sunlight, the sun's energy is found in plants. Question: Where do all animals get their energy?</p> | |
| | from fuel |
| | from food |
| | from air |
| | None of the following |
| <p>Read the following passage and answer the questions that follow: Airplanes have the reputation of being dangerous and even hardened travellers are intimidated by them. They also have the grave disadvantage of being the most expensive form of transport but nothing can match them for speed and comfort, travelling at a height of 30,000 feet, far above the clouds, and at over 500 miles an hour is an exhilarating experience. You do not have to devise ways of taking your mind off the journey, for an airplane gets you to your destination rapidly. Question: What is the main disadvantage of an air journey?</p> | |



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| | |
|---|---|
| | it is very dangerous |
| | it is very expensive |
| | it is very boring |
| | it is a fearsome experience |
| Read the following passage and answer the questions that follow: Airplanes have the reputation of being dangerous and even hardened travellers are intimidated by them. They also have the grave disadvantage of being the most expensive form of transport but nothing can match them for speed and comfort, travelling at a height of 30,000 feet, far above the clouds, and at over 500 miles an hour is an exhilarating experience. You do not have to devise ways of taking your mind off the journey, for an airplane gets you to your destination rapidly. Question: Which of the following is a synonym for intimidated: | |
| | terrified |
| | excited |
| | bored |
| | None of the following |
| Gujarati Language skill | |
| વૃક્ષો ઋતુઓની રાહ જોતાં રહે છે. અલંકાર ઓળખી બતાવો. | |
| | વ્યતિરેક |
| | સજીવરોપણ |
| | ઉપમા |
| | વ્યજસ્તુતિ |
| 'ધરતી ઉપર કોઈક વરદાનની જેમ ચાંદની ઉભરી રહી છે.' અલંકાર ઓળખી બતાવો. | |
| | વ્યતિરેક |
| | ઉત્પ્રેક્ષ |
| | રૂપક |
| | ઉપમા |
| નીચેના વાક્યોમાંથી કર્તારિ વાક્ય શોધો | |
| | રાજાએ ગરીબો માટે કેન્દ્રો ખોલ્યાં. |
| | તમારાથી પૂર્વાદિત્યને કહેવાય ખરું ? |
| | મૃણાલવતીથી બહાર અટારીમાં અવાયું. |
| | મારાથી એટલા દિવસ કમળા જોડે રહેવાશે |
| 'મારાથી પત્ર લખાય છે.' કર્તારિમાં ફેરવો. | |
| | મારા વડે પત્ર લખાય છે. |



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| | |
|--|--|
| | મેં પત્ર લખ્યો. |
| | હું પત્ર લખું છું. |
| | મેં પત્ર લખાવ્યો. |
| 'કોશા દાદાને પ્રશ્ન પૂછે છે.' કર્મણિમાં ફેરવો. | |
| | કોશાના દાદાથી પ્રશ્ન પૂછાયો. |
| | કોશા દાદાને પ્રશ્ન પૂછાવડાવે છે. |
| | કોશાથી દાદાને પ્રશ્ન પૂછાય છે. |
| | કોશા દાદાને પ્રશ્ન પુછાવે છે. |
| 'કૂવામાં હોય તો જ અવાડામાં આવે' કહેવતનો અર્થ આપો. | |
| | કૂવામાં પાણી જ ન હોય તો શું કરવું ? |
| | કૂવો અને અવાડો એક થઈ જાય તો પશુઓન |
| | કૂવામાં પાણી હોય છતાં અવાડામાં તે ન પણ આવે ! |
| | માતા-પિતામાં સંસ્કારિતા હોય તો જ તે સંતાનોમાં આવે |
| 'પારકી મા જ કાન વીંધે' કહેવતનો અર્થ આપો. | |
| | માતા પોતાના બાળકોના કાન શા માટે વીંધે ? |
| | મા જ અપરમા હોય તો શા માટે ન મારે ? |
| | મા તે માં, બીજા બધા વગડાના વા |
| | લાગણીનો સંબંધ ના હોય તે જ કઠોર તાલીમ આપી શકે |
| આપેલા વિકલ્પોમાંથી સાચી જોડણી શોધો. | |
| | નિરાભિમાણીની |
| | નિરભિમાની |
| | નિરાભીમાની |
| | નીરાભિમાની |
| 'આ દુર્ગમ સ્થળમાં રાત્રે તો કોઈ આવી જ ન શકે.' વાક્યમાં રહેલા નિપાત શોધો. | |
| | આ |
| | દુર્ગમ, ન |
| | શકે |
| | તો, જ |



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| | |
|---|---|
| મધુ હાલરડું ગાય છે.નું પ્રેરક વાક્ય શોધો. | |
| | મધુ હાલરડું ગવડાવે છે. |
| | મધુથી હાલરડું ગવાય છે. |
| | મધુએ હાલરડું ગાયું. |
| | મધુ હાલરડું ગાતી હતી. |
| હું ન બોલ્યો તે ન જ બોલ્યો.નું ભાવે વાક્ય શોધો | |
| | હું ય ન બોલ્યો, તું ય ન બોલી. |
| | મારાથી ન બોલાયું તે ન જ બોલાયું. |
| | જો તું ન બોલે તો હું શા માટે બોલું ? |
| | હું ય ન બોલ્યો ને તું ય ન બોલ્યો. |
| 'બે પાંદડે થવું' - રુઢિપ્રયોગનો અર્થ શોધો. | |
| | આર્થિક સ્થિતિ સારી થવી |
| | પાંદડાં વધી જવા |
| | એકનાં બે ન થવું |
| | બેમત ના હોવો |
| 'સવારમાં' શબ્દ કઈ વિભક્તિ દર્શાવે છે ? | |
| | છઠ્ઠી |
| | બીજી |
| | પાંચમી |
| | સાતમી |
| આપેલ વિકલ્પોમાંથી યોગ્ય વિરીધી શબ્દ પસંદ કરો. કંકોત્રી | |
| | ગંગોત્રી |
| | શોકપત્ર |
| | કરુણપ્રશસ્તિ |
| | કાળોત્રી |
| નીચેના શબ્દસમૂહો માટે એક શબ્દ આપેલ વિકલ્પોમાંથી પસંદ કરો. હથિયાર તરીકે ફૂલનો ઉપયોગ કરનાર કામદેવ | |
| | પુષ્પધન્વા |
| | શસ્ત્રપુષ્પા |
| | મનોજ |



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| | |
|---|--------------------|
| | અનંગ |
| 'બકાલું' શબ્દનું શિષ્ટ રૂપ શું છે ? | |
| | શાકભાજી |
| | અથાણું |
| | ટાણું |
| | ખરીદી |
| નીચેનામાંથી કયો શબ્દ 'નિશા'નો સમાનાર્થી નથી ? | |
| | શર્વરી |
| | રજની |
| | કાલિન્દી |
| | યામિની |
| નીચેનામાંથી કયો શબ્દ 'આગ'નો પર્યાય નથી ? | |
| | અનલ |
| | પાવક |
| | હૂતાસન |
| | ચેતના |
| કર્ણપ્રિય - સમાસ કયા છે તે ઓળખી બતાવો. | |
| | ઉપપદ |
| | તત્પુરુષ |
| | કર્મધારય |
| | ઢંઢ |
| સાયો સંઘીવિગ્રહ શોધો. સુષુત્તિ | |
| | સૂ + સુત્તિ |
| | સૂ + સુમ |
| | સુ + સુત્તિ |
| | સૂ + ષુત્તિ |
| Domain Knowledge- Electronics/Electrical Engineering | |
| Which of the following is not an expression power? | |



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| | |
|---|------------------------------|
| | $P=VI$ |
| | $P=I^2R$ |
| | $P=V^2/R$ |
| | $P=I/R$ |
| Kilowatt-hour(kWh) is a unit of? | |
| | Current |
| | Power |
| | Energy |
| | Resistance |
| What is the relation between current and voltage in a capacitor? | |
| | $I=1/C*\text{integral}(Vdt)$ |
| | $I=CdV/dt$ |
| | $I=1/CdV/dt$ |
| | $I=Ct$ |
| For high frequencies, capacitor acts as _____ | |
| | Open circuit |
| | Short circuit |
| | Amplifier |
| | Rectifier |
| A capacitor consists of _____ | |
| | Two conductors |
| | Two semiconductors |
| | Two dielectrics |
| | Two insulators |
| The unit for inductance is _____ | |
| | Ohm |
| | Henry |
| | A/m |
| | A/s |
| As the number of turns in the coil increases, what happens to the inductance of the coil? | |
| | Increases |



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| | |
|--|---------------------------------------|
| | Decreases |
| | Remains the same |
| | Becomes zero |
| Which, among the following, is the correct formula to find the coupling coefficient? | |
| | $k=M/\sqrt{L_1L_2}$ |
| | $k=M/\sqrt{L_1^2}$ |
| | $k=M/\sqrt{L_2^2}$ |
| | $k=M/(L_1L_2)$ |
| The unit of resistivity is | |
| | Ω . |
| | Ω - metre. |
| | Ω / metre. |
| | Ω / m ² . |
| What is the expression for acceleration? | |
| | Mass x velocity |
| | Change in velocity / time |
| | Mass x acceleration |
| | Force x displacement |
| Unit of deflection sensitivity of a CRO is | |
| | V / mm |
| | meter / volt |
| | mm per Mv |
| | mm / V |
| Piezoelectric effect is carried out in | |
| | composite filter. |
| | crystal filter. |
| | m derived. |
| | constant k prototype. |
| The use of _____ instruments is merely confined within laboratories as standardizing instrument. | |



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| | |
|--|---------------------------------------|
| | indicating. |
| | absolute. |
| | recording. |
| | integrating. |
| Super position theorem is not applicable for | |
| | current calculations. |
| | voltage calculations. |
| | power calculations. |
| | None of the above. |
| Which quantity should be measured by the voltmeter ? | |
| | Current |
| | Voltage |
| | Power |
| | Speed |
| KCL works on the principle of which of the following | |
| | law of conservation of charge. |
| | law of conservation of energy. |
| | both. |
| | None of the above. |
| KVL works on the principle of | |
| | law of conservation of charge. |
| | law of conservation of energy. |
| | both. |
| | None of the above. |
| Average power taken by the pure capacitor is | |
| | Zero |
| | Minimum |
| | Maximum |



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| | |
|--|-------------------------------|
| | Any of the above |
| In series R, L circuit power factor can be defined as | |
| | R/Z |
| | P/S |
| | V_r/V |
| | All of the above |
| In series RLC circuit which of the following represents the Q factor ? | |
| | XC/R |
| | VR/V |
| | XL/R |
| | All of the above |
| Ampere second is the unit of | |
| | conductance. |
| | power. |
| | energy. |
| | charge. |
| Electric displacement is a _____ quantity. | |
| | scalar |
| | vector |
| | both of above |
| | none of above. |
| Thin laminations are used in a machine in order to reduce | |
| | Eddy current losses |
| | Hysteresis losses |
| | Both 1 and 2 |
| | Copper losses |
| Lap winding is preferred for which type of machines? | |
| | low current and low voltage |
| | high current and high voltage |



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| | |
|---|-------------------------------------|
| | high current and low voltage |
| | low current and high voltage |
| Dummy coils are used for | |
| | increasing efficiency. |
| | reducing armature reaction. |
| | mechanical balancing. |
| | all of the above |
| The effect of ----- on main field flux is armature reaction? | |
| | armature mmf |
| | armature current |
| | armature flux |
| | all of the above |
| Brushes are always placed on----- , in order to achieve sparkles commutation? | |
| | GNA |
| | MNA |
| | either GNA or MNA |
| | none of the above |
| Length of the cable is doubled, its capacitance C will be | |
| | one-fourth. |
| | one-half. |
| | doubled. |
| | unchanged. |
| Maximum power transfer capability of transmission line can be increased by | |
| | Parallel transmission lines |
| | Using series capacitance |
| | Using bundled conductors |



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| | |
|--|-------------------------|
| | all of the above |
|--|-------------------------|