

Biomedical Engineer Interview Questions And Answers Guide.



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Biomedical Engineer Job Interview Preparation Guide.

Question # 1

Tell me what piece of equipment do you find most challenging to repair?

Answer:-

As I've stated earlier answer every part of it is important, but for me the challenging part would be the software development part , it would be difficult but I would try hard and focus on so I can give my best to it and give a better result of the company's good.

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Question # 2

Explain what are your long term career goals as a Biomedical Technician?

Answer:-

Since I have always been interested in medical devices this would be satisfying field.

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Question # 3

Tell me what is the riskiest decision you have made? Tell me about the situation and the outcome?

Answer:-

I wrote a letter to my CEO asking if they would do a scholarship for me for school. I had lost my soccer scholarship due to injury so needed assistance. I was not expecting much from the letter, but his secretary called me and they awarded me a scholarship.

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Question # 4

Explain me what you know about the popularity of BME a passing fad?

Answer:-

No one can know if the rapid growth of BME will continue at its current pace. All fields are susceptible to fluctuations in the economy. However, if we consider the explosion in scientific and medical knowledge of recent years, we can see that there are enormous opportunities to use that knowledge in the development of new medical devices and healthcare systems. The importance of healthcare in the U.S. appears to be increasing yearly and bodes very well for the future of biomedical engineering.

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Question # 5

Tell me what is Rehabilitation Engineering?

Answer:-

Rehabilitation Engineering focuses on enhancing the independence, capabilities and quality of life of individuals with physical impairments. This specialty may involve development of customized solutions to address highly specific needs of individuals.

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Question # 6

Tell me do you know what Biomedical Engineers actually do?

Answer:-

Biomedical engineers may work in hospitals, universities, industry and laboratories. They enjoy a range of possible duties, including the design and development of artificial organs, modeling of physical processes, development of blood sensors and other physiologic sensors, design of therapeutic strategies and devices for injury recovery, development and refinement of imaging techniques and equipment, development of advanced detection systems, testing of product performance, and optimal lab design.

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Question # 7



Explain what is Alzheimer's disease?

Answer:-

Alzheimer's is a brain disease caused due to tau protein misfolding. It is an incurable disease and can be diagnosed in a PET or MRI scan. Alzheimer's is related more with aging, where the disease is detected in human more than 65 years of age. The symptoms are memory losses, stress, confusion and also aggression. Diagnosis is mostly done by behavior related tests.

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Question # 8

Explain what is Biomedical Engineering?

Answer:-

Biomedical engineering is an application of engineering in medicine. It combines the expertise of life sciences, engineering and medicine. Biomedical engineering deals with design and development of advanced medical devices, artificial replacement of organs, devices and methods for disease diagnosis and DNA chips. Biomedical engineering is one of the upcoming fields with its reach expanding exponentially everyday.

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Question # 9

Do you know what is the principle behind DNA fingerprinting?

Answer:-

DNA fingerprinting is the technique of genetic fingerprinting. In this technique, DNA sequence can be used for identification of an individual. The main application of DNA fingerprinting is forensics. The main principle behind DNA fingerprinting is Polymerase Chain Reaction. This technique is also popularly known as DNA profiling.

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Question # 10

Tell me the technique of gene conversion?

Answer:-

Gene conversion refers to the event in DNA genetic recombination. This event occurs at high frequencies during meiotic division but which also occurs in somatic cells. Through this process we can transfer DNA information from one DNA helix to another DNA helix, whose sequence is altered. Gene mutation can also be accomplished through this process. IT may lead to non-Mendelian inheritance. This phenomenon has often been recorded in fungal crosses.

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Question # 11

Is there one type of equipment that you feel you are the most efficient at repairing?

Answer:-

While getting my associate's, I particularly enjoyed learning about MRA machines, and I had the opportunity to repair many of them at my previous position. I have more expertise with MRA machines than any other piece of equipment.

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Question # 12

Tell me what is isotopic tracer technique?

Answer:-

This technique is used to understand chemical reaction and interactions in bio-chemistry and chemistry. In this technique, one or more of the atoms of the molecule of interest is substituted for an atom of the same chemical element, but that element belongs to different isotope. It can be used to detect the difference in number of neutrons separately from the other atoms of the same element. The atom has the same number of protons; it will behave in almost exactly the same way chemically as other atoms in the compound, and with few exceptions will not interfere with the reaction under investigation.

[Read More Answers.](#)

Question # 13

Explain me what is Alzheimer's disease?

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[Read More Answers.](#)

Question # 14

Tell me what you know DNA fingerprinting?

Answer:-

DNA fingerprinting or genetic fingerprinting is a technique wherein a DNA sequence is used for identification of an individual. It is mostly used in forensics. Polymerase Chain Reaction and Short Tandem Repeats techniques are commonly used for DNA fingerprinting.

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Question # 15

Tell me do you know what is flow control in Biomedical Engineering?

**Answer:-**

Flow control, also called optimized production technology, focuses on the efficient flow of material through the production process. The philosophy of flow control focuses on bottlenecks. For example, an owner using flow control will not buy a machine capable of 1,000 units an hour if supply is only 500 units. Examine systems and determine where lowest flow is experienced, then address that point and make sure it operates at full capacity. Flow control applies well where maximum productivity is required.

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Question # 16

Tell me what equipment did you specialize in during your training?

Answer:-

Bachelors degree in biomedical engineering.

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Question # 17

Tell me working on million dollar equipment can be stressful, how have you prepared to handle this?

Answer:-

First I will find to figure the problem and then I will handle.

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Question # 18

Tell me do you hold, or are working towards, any certifications for a specific piece of equipment?

Answer:-

Yes, I plan to pursue a masters degree in health care administration or project management degree. I am also looking forward to be CBET certified.

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Question # 19

Tell me do you know what careers are open to BME graduates do after they complete their degree?

Answer:-

BME is an excellent preparation for a career in engineering in large, medium and start-up companies. It also prepares one very well for careers in management, medical administration, sales, and regulatory practices. Biomedical engineering graduates from NJIT have gone on to graduate study in medicine, dentistry, physical therapy, management and law, as well as biomedical engineering.

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Question # 20

Explain me what is Systems Physiology?

Answer:-

Systems Physiology focuses on understanding - at the microscopic and submicroscopic levels - how systems within living organisms function, from pharmaceutical drug response to metabolic systems and disease response, voluntary limb movements to skin healing and auditory physiology. This specialty involves experimentation and modeling using mathematical formulations.

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Question # 21

We frequently bring in new equipment to replace older models. Did you ever encounter an instance where you had to learn about a new piece of machinery that you had never encountered before?

Answer:-

Yes, this was a common part of my previous job. I always thoroughly study the technical manuals of all the hospital's equipment so I can learn something new about its makeup and be better prepared during an emergency. I strive to be as efficient as possible when working, and that involves staying on top of any new equipment additions. Sometimes, I offered suggestions to my superior about the equipment I felt was most in need of updates or replacement.

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Question # 22

As you know there has been a lot of talk about advancements in technology. Are you worried that remote diagnostics will replace your job?

Answer:-

A remote diagnostics may assess a device's status, yet cannot rectify the issue in real world, real time.

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Question # 23

Tell me are you at the point in your career where you are ready to write a manual for all newcomers to the field?

Answer:-

The required data has to be understood to write a manual. This data will be written so it is easier to understand to same time and refresh to subject quicker.

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Question # 24



Tell me is biomedical engineering really 'engineering' or is it better to study mechanical, electrical or chemical engineering?

Answer:-

Like most new fields, BME developed because of the need to address complex problems that require interdisciplinary knowledge. A strong BME program will provide students with the skills necessary to work as engineers as well as provide physiological and biological foundations that are not included in more traditional engineering programs. According to the National Science Foundation, BME is the fastest growing branch of engineering in terms of student enrollment.

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Question # 25

Tell me do you know what is Biomedical Engineering?

Answer:-

Biomedical Engineering blends traditional engineering techniques with biological sciences and medicine to improve the quality of human health and life. The discipline focuses both on understanding complex living systems - via experimental and analytical techniques - and on development of devices, methods and algorithms that advance medical and biological knowledge while improving the effectiveness and delivery of clinical medicine.

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Question # 26

Do you know what is microarrays. How are they related to DNA?

Answer:-

Microarrays are matrix in the form of arrays where DNA oligonucleotides of DNA sequences are spotted. They can be used for gene expression profiling, single nucleotide polymorphism detection, detection of alternative splicing and for various other purposes. Microarrays have the capability to perform hybridization of cDNA with the help of probes. A microarray chip is capable to perform a large set of genetic related experiments concurrently.

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Question # 27

Sometimes staff members benefit from learning about the makeup of a piece of medical equipment. Are you comfortable explaining how a machine works to other employees?

Answer:-

I can help doctors, nurses and other coworkers familiarize themselves with the equipment that they'll be using every day so that they can better assist their patients. By telling them what they need to know, they can better understand what can go wrong. I'm generally friendly and collaborate easily with others.

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Question # 28

Explain me is it a good reason to skip an inspection on a machine?

Answer:-

I do not believe there is a good reason to skip an inspection on a machine.

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Question # 29

Explain me about a situation when it was important for you to pay attention to details. How did you handle it?

Answer:-

During a live heart beating experiment.

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Question # 30

Explain me what you know about Biomedical Engineering professions receptive to women?

Answer:-

Biomedical Engineering is extremely attractive to women as a degree program and career. Women earn a greater percentage of college degrees in Biomedical Engineering than any other engineering discipline, according to the American Society for Engineering education. Among those earning B.S. degrees in biomedical engineering, 39% were awarded to women in 2000; at the master's level, 34% of biomedical degrees awarded went to women; and at the doctoral level, 32% of biomedical engineering degrees awarded went to women.

The attractions for many women are: the flexibility and inherent creativity of the discipline relative to other engineering areas; the ability to work in a profession that strives to improve the quality of people's lives; the existing critical mass of women in medical professions; and the integration of biological sciences.

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Question # 31

Tell me the mechanism of ELISA. What are its uses?

Answer:-

ELISA stands for enzyme linked immunosorbent assay. It is a wet lab type analytical biochemistry assay. It can detect presence of a substance in a liquid or wet sample by using one subtype of heterogeneous, solid-phase enzyme immunoassay. ELISA can be used as ligand binding assays. It is also used as a diagnostic tool in medicine and plant pathology. Quality check operations can also be performed in various industries with the help of ELISA.

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Question # 32

Tell me what is method of perfusion. State some of its drawbacks?



Answer:-

Perfusion is the process of delivery of blood to a capillary bed in the biological tissue. Tests of adequate perfusion are a part of the patient assessment process performed by medical or emergency personnel. The most common methods include evaluating skin color, temperature, condition and capillary refill. Perfusion can be of two types over perfusion and under perfusion. Types of perfusion is classified according to the average level of perfusion across all tissues in an individual body, Tissues like the heart are considered overperfused and receive more blood than would be expected to meet the metabolic needs of the tissue.

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Question # 33

Breakdowns can happen at any time, even after your scheduled shift. Are you available to work on call after hours and on weekends?

Answer:-

I strive to be as efficient as possible every day and hope to complete all necessary repairs when I'm on the clock. During an emergency, however, I will try to adjust my schedule so that I am able to come in.

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Question # 34

Tell me how would you handle a situation that required you to fix two pieces of equipment at the same time?

Answer:-

It won't be possible to work with two things at the same time but if I've given to work with my colleagues I'll make it more simpler by dividing the job and try to complete it in that given time.

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Question # 35

Tell us performing work in a timely manner is very important for hospitals, and our services. Tell me about your time management skills?

Answer:-

The test department tests manufactured products to find any failures before they are sent to system test or customer. All of these need to meet the projects schedule.

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Question # 36

Tell me do you think is BME a good path toward a career in medicine and dentistry?

Answer:-

If a student has an interest in engineering, then BME is a wonderful path to medical school. Contrary to public opinion, one does not need to major in biology to be admitted to medical or dental school.

The undergraduate BME curriculum provides a strong preparation for both medicine and dentistry. Courses required for admission to medical and dental schools fit naturally into a BME student's program of study. The same problem solving skills that are at the core of an engineering education are essential in diagnosing and treating patients. As both medicine and dentistry become increasingly dependent on technology, engineering skills will even more valuable in medical and dental practice.

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Question # 37

Explain what is Biomaterials?

Answer:-

Biomaterials involves development of natural living tissue and artificial materials for use in the human body. Choice of materials with appropriate properties is critical to design of functional organs, bones and other implantable materials, which may include alloys, ceramics, polymers and composites.

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Question # 38

Explain me do you know what are some important advances made by Biomedical Engineers?

Answer:-

Biomedical Engineers have developed many important techniques and equipment:

- * Hip joint replacement
- * Magnetic resonance imaging (MRI)
- * Heart pacemakers
- * Arthroscopic instrumentation for diagnostic and surgical purposes
- * Heart-lung machines
- * Angioplasty
- * Bioengineered skin
- * Time-release drug delivery
- * Artificial articulated joints
- * Kidney dialysis

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Question # 39

Tell me out of all the medical equipment you've worked on, which challenges you the most?

Answer:-

In every field as biomedical engineer it is essential to have knowledge and skill related to it, but as for me I would like to work in manufacturing of that Instruments or Device.



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Question # 40

In this position you'll often be expected to repair sophisticated medical equipment under time pressure. How are you at managing your time while working?

Answer:-

I understand that sometimes equipment breaks unexpectedly and has to be repaired as soon as possible. In my previous position there was a situation when a life-support machine broke down just when it was needed for a patient. My best problem-solving capabilities were called forth in that moment because I had to fix the machine as soon as possible. I am proud that I remained cool under pressure and repaired the machine without wasting time.

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Question # 41

Explain me do you know what is materials requirement planning?

Answer:-

A given quantity of finished goods requires a given quantity of raw materials and components to make them. Materials requirement planning systems are computerized tools that manage when materials must be ordered to supply production at a later date. MRP is effective when output quantities are known. Small business owners are often their own MRP systems, storing the information needed to supply production in their knowledge and experience. Activities such as computer tracking inventory and forecasting demand are MRP activities.

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Question # 42

Explain me what do you do to remain enthusiastic about your career as a Biomedical Technician?

Answer:-

I was the lead engineer while developing a product and application engineer that provided customers presentations.

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Question # 43

Tell us what is Clinical Engineering in Biomedical Engineering?

Answer:-

Clinical Engineering involves development and maintenance of computer databases, inventorying medical equipment and instruments as well as purchase of medical equipment used in hospitals. Clinical engineers may work with physicians to customize equipment to the explicit needs of the hospital or medical procedure.

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Question # 44

Explain do you know what is myoelectric control?

Answer:-

Myoelectric control uses the signals from a residual limb for the movement of the prosthetics. Myoelectric control technologies obtain signals from the skin on the limbs.

[Read More Answers.](#)

Question # 45

Tell me what are immunoglobulins? Explain its structure?

Answer:-

Immunoglobulins are popularly known as antibody. These are large Y-shaped protein produced by B-cells that is used by the immune system to identify and neutralize foreign objects such as bacteria and viruses. Immunoglobulins are "Y" shaped structure which is having two tips and each tip of immunoglobulins contains a paratope. Immunoglobulins are typically made of basic structural units-each with two large heavy chains and two small light chains. The general structure of all antibodies is very similar; a small region at the tip of the protein is extremely variable.

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Question # 46

Please explain what Is Therapeutic Cloning?

Answer:-

Cloning is a method of duplicating a DNA or a part of the DNA. Therapeutic cloning otherwise called somatic cell nuclear transfer is a process where an embryo is utilized. The embryo contains stem cells, which can be used in regeneration applications. Embryonic stem cells have the capability of renewing and are pluripotent that is it can transform or grow into more than 220 types of cells of the human body.

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Question # 47

Tell me what is superiority of TLC over paper chromatography?

Answer:-

TLC is superior over paper chromatography because of inorganic nature of adsorbent concentrated sulfuric acid spray. The spray is then followed by heating. It may be used to develop on the chromatogram by charring. Also, amino acid mixtures require 18 hours for separation on paper. It requires 3 hrs using cellulose TLC. The advantages of TLC lie in adsorbents which don't allow separation on paper. In TLC we have much wider choice of adsorbents depending upon needs and sample.

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Question # 48

Explain me about your experiences at your previous hospital? What equipment did you work on the most?

Answer:-

I worked on infusion pumps, c arms, blood pressure cuff, and performed electrical safety inspections.

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Question # 49

Explain me about your attendance and punctuality?

Answer:-

I have been very punctual and obidient to my work. There were not many call days off.

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Question # 50

Explain what Is Myoelectric Control?

Answer:-

Myoelectric control uses the signals from a residual limb for the movement of the prosthetics. Myoelectric control technologies obtain signals from the skin on the limbs.

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Question # 51

Tell us do you know about BMI?

Answer:-

BMI is Body Mass Index. It is a comparison of a person's height and weight. It is a person's weight divided by the square of the height. Its SI unit is kg/sq.m.

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Question # 52

Tell me would you like to advance your career in any other technical fields?

Answer:-

I have an EPA universal certification and I am working on CBET certification.

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Question # 53

Suppose if a double shift was required of you how would you handle that?

Answer:-

I will try to manage quite possibly and get some help from my colleagues.

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Question # 54

Tell me what is Bioinstrumentation?

Answer:-

Bioinstrumentation involves use of engineering principles and methods, including computers, in developing devices for diagnosis and treatment of disease.

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Question # 55

Explain me why did you choose a career as a biomedical technician?

Answer:-

I have done B.E in biomedical Engineering and would like to apply my theory knowledge by acting as a biomedical technician.

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Question # 56

Do you know epilepsy?

Answer:-

Epilepsy is a neurological disorder. It occurs due to abnormal signals in the human brain. These abnormal signals cause seizures and unconsciousness.

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Question # 57

What is forbidden clones?

Answer:-

Clones refer to producing genetically identical individuals. Forbidden clones refer to clones of those cells which had immunological reactivity with self antigens. Embryonic life is eliminated from these types of clones. Such type of clones is called 'forbidden clones'.



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Question # 58

Explain me what is MRI?

Answer:-

MRI is Magnetic Resonance Imaging. It is a medical imaging technique that gives a detailed structure of internal organs, especially soft tissues. MRI uses a strong magnetic field and generates images and models of the specified organ.

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Question # 59

Explain me what is employment criteria in Biomedical Engineering?

Answer:-

Biomedical engineers held about 16,000 jobs in 2008. Manufacturing industries employed 36 percent of all biomedical engineers, primarily in the pharmaceutical and medicine manufacturing and medical instruments and supplies industries. Many others worked for hospitals. Some also worked for government agencies or as independent consultants.

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Question # 60

Explain me will I need an advanced degree?

Answer:-

A BS in biomedical engineering allows the graduate to enter a professional career without further graduate study. NJIT's BME program prepares its students to function as engineers who can be highly successful in their first job.

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Question # 61

Tell me do you know what are the most commonly used technologies in medical imaging?

Answer:-

Electron microscopy, Computer Tomography, radiography, thermography, nuclear medicine, fluoroscopy, ultrasound, Positron Emission Tomography and Magnetic Resonance Imaging.

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Question # 62

Explain what is therapeutic cloning?

Answer:-

In the process of cloning DNA or a part of DNA is duplicated. This process is also called somatic cell nuclear transfer. In this process embryo is utilized for cloning. Embryo comprises of stem cells which is later employed in regeneration applications. The embryonic stem cells are renewable and are pluripotent.

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Question # 63

Tell me what is gram staining method?

Answer:-

This method is used to identify bacterial species into two communities i.e. Gram positive and gram negative. This method is based on chemical and physical properties of their cell walls. It can be used to detect peptidoglycan, which is present in a thick layer in Gram positive bacteria. Purple/blue colour refers to the gram positive bacteria. Red colour stain refers to the gram negative bacteria. This method is very popularly used in the identification of bacterial organism.

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Question # 64

Tell me what you know about microarray?

Answer:-

Microarrays are arrays where DNA oligonucleotides of DNA sequences are spotted as a matrix. Microarrays are used in gene expression profiling, single nucleotide polymorphism detection, detection of alternative splicing etc. Microarrays perform hybridization of cDNA using probes. A microarray chip has the capability to perform a large set of genetic related experiments simultaneously.

[Read More Answers.](#)

Question # 65

Tell me do you have any idea what kinds of jobs are available for BME graduates?

Answer:-

Graduates of the NJIT's Department of Biomedical Engineering have found employment as design engineers, development engineers, process and manufacturing engineers, and as product managers. NJIT's location in New Jersey provides proximity to the nation's largest concentration of medical device and pharmaceutical companies. Over 500 large and small biomedical businesses are located within 50 miles of the campus. Biomedicine is now New Jersey's largest industry.

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Question # 66



Tell me what is myoelectric control?

Answer:-

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Question # 67

Tell me what do you understand by MRI?

Answer:-

MRI stands for Magnetic Resonance Imaging. This technique uses medical imaging that provides a detailed structure of internal organs; especially soft tissues. MRI provides good contrast between different soft tissues. A strong magnetic field is used in MRI which generates images and models of the specified organ. MRI works on the principle of nuclear magnetic resonance to generate image of nuclei of atoms inside the body.

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Question # 68

Do you know what is Medical Imaging?

Answer:-

Medical Imaging combines electronic data processing, analysis and display with understanding of physical phenomena to identify and characterize health problems such as tumors, malformations and the like. Magnetic resonance imaging (MRI), ultrasound and other techniques are commonly used

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Question # 69

Tell me do you know what are the wave patterns seen in an EEG scan?

Answer:-

Wave patterns seen in an EEG scan are delta - state of sleep, theta drowsiness, alpha - relaxation, beta - active thinking and gamma. Alpha also contains a mu-rhythm

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Question # 70

Can you please explain the difference between introns and exons?

Answer:-

An intron refers to any nucleotide sequence within a gene which is removed by RNA splicing to generate the final mature RNA product of a gene. The term intron refers to both the DNA sequence within a gene, and the corresponding sequence in RNA transcripts. Introns are found in the genes of most organisms and many viruses.

An exon can be referred to a sequence in DNA or its RNA transcript. In broad sense. An exon is a nucleic acid sequence that is represented in the mature form of an RNA molecule.

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Question # 71

Explain what is Biomechanics?

Answer:-

Biomechanics applies principles of mechanics to understand and simulate medical problems and systems such as fluid transport and range of motion. Prosthetic organs such as artificial hearts, kidneys, and joints are examples of devices developed by biomechanical engineers.

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Question # 72

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Question # 74

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