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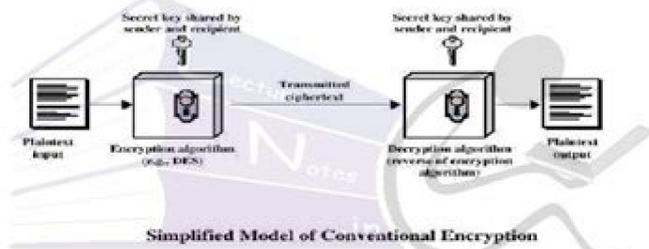
## UNIT-2

### Conventional encryption principles, conventional encryption algorithms, cipher block modes of operation, location of encryption devices, key distribution approaches of message authentication, secure hash functions and hmac

#### Conventional Encryption principles

A Symmetric encryption scheme has five ingredients

1. **Plain Text:** This is the original message or data which is fed into the algorithm as input.
2. **Encryption Algorithm:** This encryption algorithm performs various substitutions and transformations on the plain text.
3. **Secret Key:** The key is another input to the algorithm. The substitutions and transformations performed by algorithm depend on the key.



4. **Cipher Text:** This is the scrambled (unreadable) message which is output of the encryption algorithm. This cipher text is dependent on plaintext and secret key. For a given plaintext, two different keys produce two different cipher texts.
5. **Decryption Algorithm:** This is the reverse of encryption algorithm. It takes the cipher text and secret key as inputs and outputs the plain text.

Two main requirements are needed for secure use of conventional encryption:

- (i). A strong encryption algorithm is needed. It is desirable that the algorithm should be in such a way that, even the attacker who knows the algorithm and has access to one or more cipher texts would be unable to decipher the cipher text or figure out the key.
- (ii). The secret key must be distributed among the sender and receiver in a very secured way. If in any way the key is discovered and with the knowledge of algorithm, all communication using this key is readable.

Additionally, the ETS gives you three ways to register: online, by phone, or by mail. The four sections are each given scores on a scale from 0 to 30. The British broadcaster has a base in Russia and publishes articles and radio broadcasts in the Russian language, which you can access from anywhere in the world. Some of the best and most useful options are: 6. You will not get any background information on why your answer is right or wrong, however, so this is a limitation of these TOEFL Reading practice tests. 7. Bestmytest.com - Free Reading Test with Answers and Information about the Reading Question Types. On this page, you have access to a few resources which are really useful: firstly, you can take a full sample reading test that replicates a full-length TOEFL exam (i.e. all sections). Once you work through the first section (typically Reading), before continuing to the following sections and eventually getting your results, you will need to create an account on the website with a 7-day free trial offered to begin with. This is useful as you may use the entirety of the practice material in 7 days, or otherwise pay for continuing to use the material afterward. You can check what other sample questions there are, and the ones you would have to pay for (or get free for the first 7 days) will have a lock icon next to them. You can also register your actual test date and get personalized progress reports and analytics once you have created an account. 8. Tstprep.com - free complete practice test and reading practice materials. Here, you can sign up to download a free TOEFL Reading practice test, which you can then use in your own time. MORE FROM QUESTIONSANSWERED.NET Taking TOEFL practice tests are a great way to prepare for the TOEFL exam. TOEFL Scores - How Are They Calculated? Though your target score will largely depend on the type of university you want to attend, a score of 94 or higher will put you in the top 25% of all test takers. Once you fill in your email address, you also get access to 100 free reading practice questions put together from 9 different reading question types. If you like practicing in this way, you can also purchase 400 more questions from the website. You can also contact a local TOEFL iBT Resource Centre for general information about the test as well as preparation information. All in all, you can find even more resources by searching online and there is an equal number of free and paid materials available for TOEFL Reading. The number of experimental questions varies for each test. Listening comprehension is particularly difficult in a second language, and this section consists of 4-6 lectures and 2-3 conversations, each followed by comprehension questions. The ETS requires all students to show a valid form of ID in order to register and take the TOEFL. The latter is a paper-based exam that has mostly been phased out, though it is still offered at many ETS testing centers. It offers both English and Russian language versions of its website, which makes it a handy tool for learning the language, says FluentU. Forbes Russia. Forbes Media is a global company, so it's no surprise that the company has a presence in Russia. You can focus on the Reading section specifically of these practice tests, or look for section-specific practice questions only. ETS (who run the test) offers a number of materials including free sample questions and practice tests as well as tips about the test in general and some other programs: Helpful Posts, TOEFL Reading Practice Exams. This is most likely the best tool for recreating the test atmosphere, the timed aspect, and also the overall test format. This is not a free resource, you will have to purchase the tests from this website. 4. TOEFL Practice Online Reading and Listening Test. This is a complete Listening and Reading Test only, from ETS, replicating the test you would take for reading specifically (as well as listening). TOEFL prep courses are great for students who want to freshen up on material and learn test-taking strategies for the TOEFL. However, the vast majority of students end up taking the TOEFL iBT, which is administered online via testing centers. Therefore, the tone and type of content is likely to be familiar to American readers, but since all content is written in Russian, it's a handy tool for learning the language. Vedomosti. Vedomosti is a decent source for business news in Russia. These resources will cover all the test content and will help you get more in-depth practice and knowledge of the test as a whole. In addition to these official practice tools, you may also find a lot of material and practice tests specifically for TOEFL Reading, by searching online. If you are 15 or under, both you and your parent/guardian must present valid ID at the test center. The TOEFL (Test of English as a Foreign Language) Exam is intended to measure a student's ability to understand and use English at a college level. Doing this will sign you up for the website's newsletter. A prep course is a great investment and will help you get into your dream school. Generally, you should expect to spend between 4-5 hours at the testing center on the day of the test. The fees will depend on a variety of factors, including the location of your testing center. The TOEFL is one of two major English proficiency tests (along with the IELTS) that are widely accepted around the world. It is useful to prepare for each section of the TOEFL exam by using practice tests as well as various other complementary study materials, geared specifically for the TOEFL (rather than generic English as a foreign language material). This will familiarize you with the specific exam-style so that, on test day, you will not have any stress related to the format of the questions in front of you. In this article, we will be looking at the practice tests and study materials for TOEFL Reading. Generally, you can find a lot of practice tests for the exam as a whole, some scored and some not. Most universities set a minimum acceptable score, which varies for each school. Make sure to also check out our Scholarships Page for different information on scholarships and universities across the globe! Whether you're trying to learn Russian or you just want to find out more about what's happening around the world, Russian world news sources can be helpful tools. TOEFL FAQs TOEFL scores range from 0 to 120. For students who are under 18, it is recommended that you bring your parent or guardian with you on the day of the test. Additionally, you must construct a coherent argument in two distinct essays. Allotted Time: 60-90 minutes Number of Questions: 34-51 Type of Questions: Multiple-choice Speaking In the speaking section, students must respond to questions, speak on a predetermined topic, and read passages aloud. Let's take a closer look at each section to better understand the structure of the exam. Last Updated: 3/4/2022 This section includes passages of reading material from a wide variety of sources and topics, ranging from literature to science. One essay is based on a reading passage, while the other is based on a writing prompt. The minimum acceptable scores are significantly higher for graduate level applicants. The news outlet publishes articles in English and is independently owned. You will also find out which subjects you know and which subjects you don't know. TOEFL Prep Courses TOEFL prep courses are another great way to prepare for the TOEFL exam. You should try to show up at least 30 minutes prior to your test time, as you will need to sign in and show your I.D. to the test administrator. You will spend between 120-170 minutes on the first two sections (Reading and Listening) before taking a 10 minute break. If you're trying to learn the language, this is a reliable way to do so. TASS. TASS is a Russian-government-owned media outlet and is the largest news service in the country. Following each passage, you will need to answer questions to ensure that you understood the reading material. Reading Like any exam that tests your linguistic abilities, the TOEFL includes a reading section to analyze your reading comprehension abilities. If you're searching for ways to prepare for the TOEFL, check out some of the following resources: Official TOEFL Resources One of the best ways to prepare for an exam is to get information directly from the test administrators. Allotted Time: 60-80 minutes Number of Questions: 36-56 Type of Questions: Multiple-choice Listening The listening section is often considered one of the most challenging parts of the TOEFL. That said, you can generally expect to pay around \$200 USD every time you take the test. Whether you have answered correctly or not will be displayed as soon as you make a selection, so it is worth taking some time before clicking on any answer in order to get the best practice out of this format. This is a great practice tool for TOEFL Reading as, once again, it comes directly from the organizers of the TOEFL so you will be sure to practice with test content very similar to what you will encounter on test day. 5. E-books and Online Preparation Courses Also on the official test preparation website, you can purchase e-books with past tests to practice with, or sign up for a paid preparation course. The TOEFL is comprised of 4 distinct sections: Reading, Listening, Speaking, and Writing. There are technically two different forms of the TOEFL: the TOEFL iBT and TOEFL PBT. Your score will also be sent to the universities of your choice around the same time that they are posted online, though the delivery time will vary based on your desired school's location. The TOEFL Test is only one factor that colleges use in their admissions processes, but it can be an important factor - so you should prepare and strive to do well on the test. These prep courses will help you stay on track and study efficiently. Like most standardized tests, you will need to notify a test administrator if you have any questions or problems. In addition to knowing the types of questions on the test, you will also want to know how the TOEFL is administered, your allotted time, and all of the DO's and DON'Ts for the test day. We've also included a directory of other free TOEFL study resources to help you prepare. You can review some of the best TOEFL prep courses to see which one is the best fit for you. Exam Outline - What's On the TOEFL iBT? Many of these are available online. The Moscow Times if you want to read Russian news to learn about events in the country or Russian perspectives on global news. The Moscow Times is rated high for factual reporting with a slight to moderate liberal bias by Media Bias/Fact Check. This section tests your ability to communicate effectively on a variety of academic topics. Exam English - 8 free Reading Practice Tests Once you have become familiar with the test format, these 8 online practice tests are quick and easy to use. You are allowed to take notes during the test, however you cannot speak to anyone else. Free interactive sampler with past TOEFL questions. These questions can be downloaded from this link. You can practice with these TOEFL Reading study materials as many times as you like and they are useful to show you the format of the reading passages and questions which follow them, without worrying about the whole section set-up. 2. Free Set of Test Questions (Practice Test - as PDF) ETS also offers a full set of test questions, i.e. a practice test, but in PDF format, you can download from here. This is also useful to understand the content and format of the test, but it will not help practice in a timed environment and also on a computer, as you will have to take the test itself. 3. TOEFL Practice Online - Complete Practice Tests These are full-length tests with past exam questions, for all the sections, and give you the experience of taking the real TOEFL iBT test. Each section is scored individually out of 30. It started its life as a joint venture between the Wall Street Journal, Financial Times and Sanoma Independent Media group, but became Russian-owned after the government passed a law requiring foreign ownership in Russian companies to be limited to a 20 percent stake. Generally, you are eligible for the TOEFL as long as you can present an unexpired, government-issued ID with a recent picture. Taking practice exams will help you identify what you already know, and what you need to work on. Since 1964, the Educational Testing Service (ETS) has designed and administered the TOEFL. That said, there are plenty of great TOEFL resources to get you started out on the right foot. What Happens During the TOEFL? Who is Eligible to Take the TOEFL? TOEFL practice tests will help you become more familiar with the exam before you take it. Our TOEFL sample exams are based on the actual questions and answers that you will see on the official exam. You can learn more about the registration process and fees on the ETS website. After the 10 minute break, you will move on to the final two sections (Speaking and Writing). Needless to say, there are plenty of ways to prepare for the TOEFL, but it is extremely important that you know what to expect on the day of the test. The material generally covers academic topics, ranging from the arts to life sciences. The Russian division of the business media outlet is based in Moscow, but it still answers to the company's head office in New York. The speaking and writing sections are the only ones that do not include multiple-choice questions. Then, the scores are combined for a final score out of 120. For the speaking and writing sections, each task is scored on a scale from 0-4 (speaking) or 0-5 (writing). Internationally, the average TOEFL score is 82. This standardized test is not mandatory for every school in English-speaking countries, but it is accepted and even required by most major universities. For the TOEFL, this means consulting the Educational Testing Service (ETS), which has been testing and scoring students for nearly a decade. Make sure you are ready for the TOEFL by taking our free practice tests! You can see your TOEFL score online approximately 10 days after taking the test. Summary: Try a free TOEFL practice test to see what you need to work on. Free TOEFL Practice Tests TOEFL Reading TOEFL Reading Practice Test 1 TOEFL Reading Practice Test 2 TOEFL Reading Practice Test 3 TOEFL Reading Practice Test 4 TOEFL Reading Practice Test 5 TOEFL Reading Practice Test 6 See the Top TOEFL Prep Courses BestMyTest - Test-Guide Recommended Magoosh - Test-Guide Recommended See Our Reviews & Rankings of Top TOEFL Prep Courses. Most years, there are more than 50 dates on which you can take the exam, so it is pretty easy to find a test day that works for your schedule. ETS is a private non-profit organization that sends official scores and reports directly to universities on behalf of each student. Allotted Time: 50 minutes Number of Tasks: 2 Type of Questions: Essay TOEFL Administration - What You Need to Know to Register The TOEFL is administered on specific dates throughout the year. The newspaper can be a handy source for practicing the Russian language. You can learn about the exact requirements for identification right here. Here are a few helpful links provided by the ETS: TOEFL Test Prep Planner TOEFL Official App TOEFL Bulletin Free TOEFL Practice Tests - Questions and Answers Use TOEFL practice tests to help you prepare for the exam. You will be presented with a reading paragraph just like on the official TOEFL exam, followed by questions with multiple choice answers. For more information, see our guide to TOEFL scores. Though it is certainly a challenging section, it is also the shortest in terms of time allotment. Allotted Time: 20 minutes Number of Tasks: 6 Type of Questions: Spoken Writing The writing section tests your ability to use correct grammar, vocabulary, and writing structure. TOEFL Structure TOEFL Structure Practice Test 1 TOEFL Structure Practice Test 2 TOEFL Structure Practice Test 3 TOEFL Structure Practice Test 4 TOEFL Speaking Coming Soon! Other Practice Tests English Grammar Practice Tests TOEFL Overview While it may not be relevant for native English speakers, the TOEFL, or Test of English as a Foreign Language, is an extremely important exam for non-native speakers. The key is to look to replicate the short paragraph style of the TOEFL test, the style of questions, and make sure to time yourself as well when practicing. Of course, you will need to build vocabulary and practice with any type of reading material beyond test-taking, so ensure you read newspapers, online articles, books, and more so you are familiar with a range of reading the content before test day. This will help ensure you are reading quickly and efficiently, and having then the experience of a few practice tests will put your mind at ease and increase confidence that you can sit the test successfully. I hope that this article on TOEFL Reading practice exams was helpful. Though each version of the TOEFL is administered in a different format, both tests are largely the same. The allotted time and number of questions varies for the first two sections, as some of the questions are experimental and do not count toward your final score. TOEFL tests must be taken at an authorized ETS testing center. Over 6,000 colleges, government organizations, and businesses accept TOEFL test scores worldwide. The four sections include reading, listening, speaking, and writing. How to Study for the TOEFL When it comes to studying, everyone has different needs, timelines, and study habits. It also publishes city guides and editions in Chinese. BBC News Russian Service. BBC (British Broadcasting Corporation) is a respected name in the news world and has a time-honored tradition of global reporting. In order to gain entrance to many universities in an English-speaking country, students must take and pass the TOEFL. The TOEFL Test serves a similar function to other standardized tests (such as SAT and ACT Tests) in that they are used by colleges and universities as a factor in admissions. Different institutions place varying degrees of importance on TOEFL Scores, and use them along with other factors such as GPA, class rank, community service, recommendations and extracurricular activities.

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