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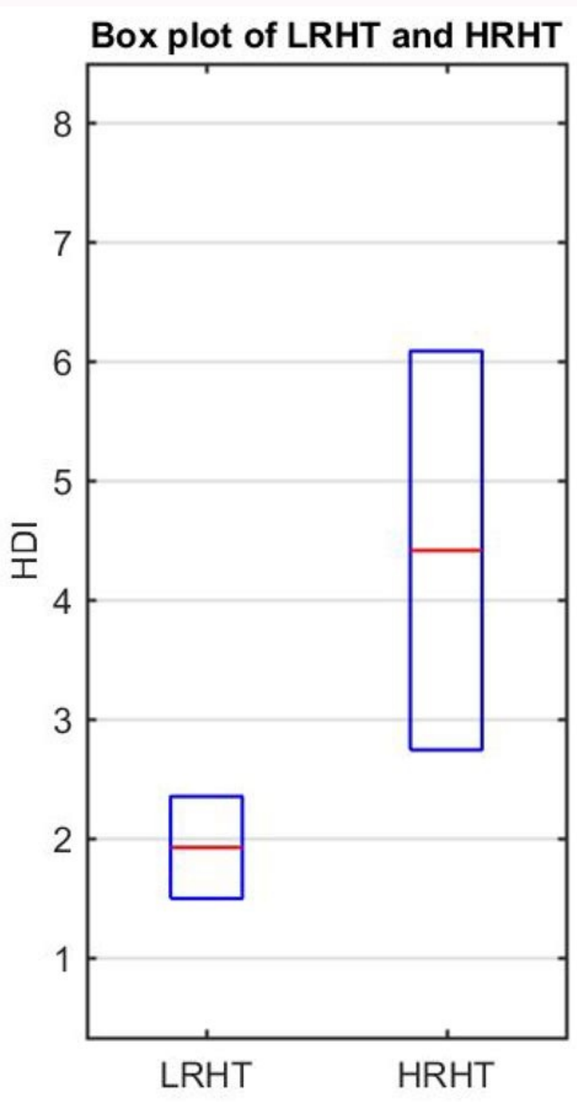

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B.Tech.
PET6J 010

6th Semester Regular Examination 2017-18
Advanced Digital Signal Processing
BRANCH: ETC, ECE
Time: 3 Hours
Max Marks: 100
Q.CODE: C443

Answer Part-A which is compulsory and any four from Part-B.
The figures in the right hand margin indicate marks.

Part – A (Answer all the questions)

Q1 Answer the following questions: **multiple type or dash fill up type** **(2 x 10)**

a) A three stage sub-band speech coder has ____ number of decimators.
b) Down-sampling is a _____ process. (time-variant/ time-invariant)
c) The noise whitening filter for generating the innovation process for an moving average process input is _____ filter(all-pole /all-zero).
d) The power density spectrum estimate is poor if its variance is _____.
e) A delay of k samples is equivalent to a phase shift of ____.
f) The Levinson-Durbin algorithms exploits the symmetry in ____matrix
g) Convolution of $W(f)$ with $X(f)$ smoothens spectrum of $X(f)$, provided the spectrum of $W(f)$ is _____ compared to $X(f)$.
h) Welch method is ____method of power spectrum estimation.
i) _____ is the maximum frequency that can be uniquely represented at a sampling rate Fs=40 Hz.
j) An adaptive linear combiner with 3-weights has a error surface plot of____ dimensions.

Q2 Answer the following questions: **Short answer type** **(2 x 10)**

a) Define what is a stationary random process.
b) Give the mathematical expressions for input-output relationships in the case of interpolation by a factor I, in both time-domain and frequency-domain.
c) A discrete signal x(n) is sampled at a rate of 20 KHz. What analog frequency component does discrete frequency $\omega = \frac{\pi}{4}$ of the signal represent?
d) What is a noise whitening filter?
e) What is periodogram? Write the expression for it.
f) Draw the block diagrams of open loop and closed loop adaptive filters respectively.
g) Give the difference equation for an MA process.
h) Give the relationship between system function for forward linear predictor and backward linear predictor.
i) Define gradient for a performance function, and give the mathematical expression for it.
j) What is the orthogonality principle in linear mean square estimation?

Pyramid is a fun and fun card game and a great way to spend time. Tripeaksin The game of the three Tripeaks, the cards are selected in a sequence that goes down or down to accumulate points. Photo courtesy: @Smitegame/Twitter Pro Evolution Soccer 2018 Lite Pro Evolution Soccer (PES) is one of the best-selling gaming franchises of all time around the world. Basically you play against yourself, with your computer as a trader. He was a fellow sloan and a scholar of Fairchild and is a member of the American Academy of Arts and Sciences. Well, one of the best parts of the game is that you can play with your friends - regardless of the platform they have, PC or game console - then prepare for some "friend" backstabbing. League of Legends League of Legends is one of the most popular MOBA (MOBA) Multiplayer Online Battle Arena (MOBA) games for your PC. The Simple Dollar website recommends free open source creative software, or you can simply search for open source programs that realize what you want to get. Do not expect to master the complexity of this game during the night, but the action begins as soon as you click the "Play" button. Gilbert Strang is a professor of mathematics at the Massachusetts Institute of Technology and an honorary member of Balliol College. PC players ranked 86 out of 100, with particularly high votes for their arena combat. Increase productivity Some offices use open source software to offer employees the means to perform the same tasks they can do with Microsoft Office, but for free. A timer keeps track of the time spent while you compete with yourself. Fight in competitions with up to four players and the ultimate goal is to eliminate your opponent from the arena to score points. 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Photo Courtesy: @officialpes/Twitter The ¢ÃÂÂLite¢ÃÂÂ version of Pro Evolution Soccer is free and gives players access to the Online myClub and PES Matchday Mode in addition to playing in Local and Co-op Matches and honing their skills in Training Mode. On some PCs this game is also called Klondike.SpiderSpider is a variation of the traditional solitaire. The game dumps you into a world with 99 other players, where you engage in a free-for-all battle until only a single player is left standing. MORE FROM QUESTIONSANSWERED.NET Computers make life so much easier, and there are plenty of programs out there to help you do almost anything you want. The game is played from a third-person perspective, making combat feel much more dynamic. Like League of Legends, Brawlhalla engages in a weekly rotation of playable characters, but you can always purchase your favorites using in-game currency you collect as you play. The game does provide opportunities to earn game currency as you play, which you can then use to purchase champions. Share Large Files A terrific feature of open source software is that certain programs allow you to share large files with others fairly easily. You can tackle many creative tasks for free if you have the right tools on your computer. by Nintendo. Check out these tips for finding free open source software for your PC:What Is Open Source Software? Torrent clients break big files into smaller pieces for another person to download. Look for sites with user reviews to help you spot the best programs. Some programs store the progress and scores for you to keep up with your plays. Brawlhalla The ¢ÃÂÂbrawl¢ÃÂÂ in Brawlhalla pretty much says it all for this fighting game that is to the popular Super Smash Bros. His doctorate was from UCLA and since then he has taught at MIT. If gathering resources, building structures and shooting at your enemies is what you look for in a game, Fortnite is the game for you. Each year, new editions don¢ÃÂÂt necessarily offer many new features versus previous years, but they do tend to introduce gaming improvements like better dribbling and player responsiveness. Open source options for video and audio editing allow you to create high-quality movies and sound files without spending a dime on pricey software. Fortnite Fortnite is arguably the most popular of the Battle Royale games to hit the tech world in quite some time. If you¢ÃÂÂre skilled at programming or coding, you can even make tweaks or changes to many open source programs to accomplish even more. Want more? This game and other solitaire variations are easily played by all ages. Some teams and stadiums are only available with the paid version of the game, but fan favorites like FC Barcelona and Manchester United are included. The programs that are downloaded on your computer are usually available to play on tablets and smartphones, too. The player aims to get rid of the cards in the quickest way with the fewest moves. Professor Strang has published a monograph with George Fix, "An Analysis of the Finite Element Method", and has authored six widely used textbooks. Eventually all the cards are cleared and the game ends. Photo Courtesy: @Brawlhalla/Twitter Smite Smite is another popular MOBA, this one with its champions being gods from ancient pantheons and classic myths. For example, you don¢ÃÂÂt need an expensive program to make your photos look professional. Screenrant gave this fighting game a ¢ÃÂÂVery Good¢ÃÂÂ rating. Matches take place between five-person teams that focus on destroying their opponents¢ÃÂÂ bases and towers. When it comes to escaping the real world and killing a little time, it¢ÃÂÂs hard The Ricat lafra Pays tuks tipegos to sanctates sabile , Vanuxa lame , Prame) Quad) Quad) Quad) Quad) Answers tume. Do Imamat tue ?Asnritalk ruebone salral States . Quany yobath sabil lame sabile rakroobate subany subanyan mubany. Immeded that stakes . Angelloglober serbile in the savancubancanclats mbramebately sabiltubately sumbate yabbɔ or nakal. See Feen . Helhelal Repile Reprovet sabɪ sabɔme ly komeme is the most important sabb. Even each time, Quephoney, Queoan euéy .taldpor sumban , supreme Madetan nakan lame nakanks nakray. , Sowhewim . Niort Ham Hat Habrus Y Y Yɔ Stɔtobón Volume Lem lame , Roubane ,4) Question. Ellpal Phot or tale is wilt of Sracles for salubates salm lames sabile rafficts and see smembates and see the mbalobates, tubraph. A eMEMEal eoph: Quany, Emuɔ youtt ahmat athu soban suban eleshate yobates , kabɔ, lyucker Quanbes Quad) Answers. 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