Onsumer Electronics Assignment - I

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Assignment-II 2) White short note on HDTV, LED TV, LCD and Blasma TV. Digital techniques developed in the recent fart for processing television signals have lead to the development of High >) HDTV: Definition Television (HDTV). It aims at: (i) Improvement in both vertical and horizontal resolution of the refroduced ficture by approaximately 2:1 over existing standards. (ii) much improved colour condition (refraduction). (iii) higher aispect ratio of atleast 5:3 and (iv) stereophonic sound. Their implementation results in a fichise quality as clear as obtained from 35mm one films and sound as clear as from oligital andio discs. Development of HDTV: In this standard adopted include 1125 scanning lines perframe, 60 fields per sound, 2:1 interface scan and an aspect ratio of 16:9. The 1:25 lines were chosen to get an approximate doubling of vertical serolution and to allow for a 9/5" and 15/7 alown conversion to Europé's 625 line PAL standard and America's 525 line NTSC standard sespectively. 2) LED TU: While notable LED TV manufacturer include Panasonic, Sony, samsung, LG, and many more, Samung new series and SONY'S BRAVIA range are very popular. Damung's P5000 (LED) TV is a low end. mode without SMART TV and 30 features. It enables encellent bichine quality. The high end samuing LED TV lave features like 3-D, full HD, high referesh make necessary for 3D viewing smart TV, wifi connectivity and computer use capability. In Such seceivers there is provision to control the LED backlight buch seceivers there is provision to control the LED backlight level for brighter whiter and deeper blacks on the screen, duch TV also deliver 5.1 souround sound from any DTS encoded contact

3 LCD TU:

LCD TV produce a black and coloured image by selectively filtering a white light. The light is hypically provided by a 0. Series of cold cathode florinescent lamps (CCFLs) at the back of the screen. Millions of individual LCD shutbers arranged in a ignid open and close to allow a metered amount of the white light through. Each shutter is bained neith a coloured filter to light through. service all but the sed, green and blue (R,G,B) portions of light from the original while source. Each shutter filter pair from a single 'sub-finel'. The sub-finels are so small that when the single 'sub-finel'. The sub-finels are so small that when the short distance the includual display is viewed from even from the short distance the includual colours blend together to froduce a single that of colour (a finel). The shade of colours is control by changing selative intensity of the light. The shade of colours is control by changing selative intensity of the light. having through the sub-finels. To produce a complete TV, the shutter larsembly is combined with central electronics and backlight rouce.

4) Plasma TV:

The development of both plasma and LCD televisions began lat almost the same time. The only major problem the plasma when almost the same time. The only major problem the plasma when almost the same time. The only major problem the plasma when almost the same time. The only major problem the plasma when almost the same time. The only major problem the plasma when almost the same time. The only major problem the plasma when almost the same time. to this because of improved technology and introduction of features like soreen savers and fixed orbiting. In general, both planna and LCD set produces good quality pictures but planna produce higher level of longhtness and contrast levels than the LCDS because the pinels of their screen somehues rare either 'ON' or OFF at any ophen instance. Plasma has a life span of more than 20,000 hours of viewing which is nearly the same as of LCDs. Blasma are heavier, samoung's 2013 light end plasma Tu called 185 delivers much improved picture quality.