Date. UNIT:5- Aneuation Stegging means the animator should create such types of The purcess of creating a sequence of mages as frames that simulate motion as change our time scenes and characters that the audience is altracted simulate motion as change over time. to their scenes. This makes a warplete animation more is called animation. It incluse designing interesting and the audience down not lose their Manipulating visual elevents to produce the illustration interest Of movement, bringing static objects as characters to This principle describes that all the scenes should be Anereation includes all the visual changes on the drawn first beam the beginning to the ending, the screen of display dereices anchestor should fill the interval scene 1. Change of shape 1 Flow through and Overlapping Action 2. Change in size This principle describes about the different speeds of 3. Change in color two as more objects in the same scene 4. Change in structure 5 Change is angle & Slow In and Slow Out This principle devente those characters and objects Psinciples of Animation whose more importance is in the between scenes, and They are slow on negligible in the beginning and ending 1) Squash and strech This principle involves exaggerating the shape and valure of an object to convey weight, flexibility as > 7) Auc In animation, each and every object will pollow some impact. It helps make animations more dynamic are. There ahould not be any object which will follow and adds a sense of life and energy to objects a straight line. or characters Secondary Action 2) Anticipation This is the situation where the animater will my This punciple describes that one character will have some sceres, and the audience will and some action, and based on those actions seeand to create unit for something happening, but nothing will character will have actions and move direction happen 3) Staging Spiral Spiral

Date. unite scripts or characters. Aninators 9) Tirring Objects or actions, interactions, as requeres code that define specific This principles defines that if we want to perform each allows feer precise within the circuation. Scripting it is after coved to action perfectly then the timing correct control over the animation, and create complex and Interactive animations is video principle takes a clot of years of hard work to get games as interactive media a better output 1) Exaggeration Exceggination is used to create more realistic issues Reocedural Aneuation It involves generating annuation automatically using connect the audience more towards reality, and functions instead by algorithms or mathematical les convey Kanually keyparing each piane. It relies on rules, It allows animators to convey enotions parameters, and conditions to define the arenation ky actions more effectively behavior. It can be used to create natural phenomena, winulation 11) Solid brawing To have a more dealistic scene, the drawing should as repetitive motion Is offer plexibility and efficiency So this principle describes that is we creat each in generating complex and dynamic annuations. whole animation character in a 2D shape, then the Representational Annuation will look more realistic It focuses on accurately sequescriting car winiting The behavior and movement of real-world objects as 12)Appeal and replicating reduit characters. It involves capturing animator creates This describes that any character motion, physics and dynamics. It is commonly used in should not be an exact copy of a co of a real person medical animations, or simulation schentific visualization, that the audience can think about the where accusate depletion is coucial world person so Reson Stochastic Animation It uses to control group of Objects such particle systems. Example fireworks, fire, waterfalls, etc Systems types of Animation Behavioural Animation Scripting Systems 01 surpting longuages It involves animating charactery or abjects with autonomous programming It involves being animated to control the movement behavior Echavior and decision making capabilities using Al techniques Spiral

5 Cell-array GKS (Graphical Kernel System) and it outputs In this patean is defined by uses is used fee 21 graphics GKS is a coffwar as first grapher scafteran standard in exectingly according to given coverdinates by uses It was adapted by 150 6) Generalised Drawing Princitives defines a set of functions A priorides was various kinds of facilities for tasks such as drawing lines, circles kinds of software Mostly all of systems has various polygons, text, and other graphical elements. It also for ares of circle or ollipse and also drawing of provides nechanism for defining colors, handling a snooth curve with set of given points transformations remagning input and output devices and interacting with 901 GKS Workstation and Ketafiles 6 output juictions of GKS are durces weekstation unfer to autput 1> Polyline graphical images are rendered. Polly wears many. It is a function which has Metables are a way to store and transmit graphical straight lines to deaw one or more coordinates which was has given to them Experiation in a devoice-independent journal for through or exchange between systems playback This function is used to draw a symbol at coording GKS uses workstations for input and output.

-at which was has provided. Their are 5 types of A workstation is a chiplary plus a number 2> Polymaker A workstation is a display plus a number of 0 symbol which is used by this software namely input devices attached to a single line or channel workstations howe only a single display surface X,+, 4,0. ---of input devices but may house any number 3> Text This junction is used to add text at given coordinates There are three type of weekstations INPUT only by uses OUTPUT only 4) Fill-agea OUT IN both input & output It allows a polygon to be drow and it can be filled with woordhater which are given. There is variety The graphics manage will define the weekstation and there of fill-ance which includes hallow, a clid types and numbers a dist similar to the and provide also variety of hatching and patterns table below to the GKS were at that Spiral

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GKS supports two types of metafiles GKS-7 metafile fermat > is a binary fermat specific	
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