Question 1 Correct Mark 1.00 out of 1.00 % Flag question	Consider a Straight with the following between coordinates at the vertices (x (x 1) - 0.0.0.0), (x (x 2) - 0.0.0.0); we (x (x 3) - 0.0.0.0). With will be the between coordinates of a point P on the straight contented by the following planepartic coordinates adjets = 0.2, bets = 0.4, associated with vertices 1 and 2 respectively? (Note: tenture coordinate variables contain vertex (x) in the coordinate variables contain vertex (x).
Question 2 Correct Mark 1.00 out of 1.00 The Remove flag	Assets that we want to cognition 2000 time dimensional points into a k-D tree data executar. Not perform each gott using a readom point along the optimity ask and athended between the x-y-z axis. The points we directly provide in the first available sook could be an internal code or a last model. What can't be the instantum depth of the resulting k-D tree! Note that the depth is differed as the longest distance of a node from the coor element (the depth of a single element tree is zero).  Assets:  32227
Question 3 Incorrect Mark 0.00 out of 1.00 F Remove flag	The cornect review is 36227  Given a biologic with the Solitaning vertices; et a. (1228.612.6), 2 is \$1.46.5.5.1 and sit a. (238.132.6), if we brow that one of the barycentric coordinates of a point on the edge (v1.2) is 0.8 and they coordinate of that point is 0.50, what is the sum of the a and a coordinates of that point?  Assert( 36.241)  X
Cueston 4 Conect Mark 1.00 out of 1.00	The cornect answer in 7.300001  Find the intersection point of a ray with origin $a = (2.27)$ and direction $d = (15.53)$ with a plane with surface normal in the direction $n_0 = (15.40)$ and passing through the point $a = (14.11,13)$ .  Write the $(x_0, x_0)$ coordinates of the intersection point point of a bolice.
V Flag question  Overfor 5  Correct  Mark 1.00 out of 1.00	56.4 y 52 y 82
₹ Reg question	Assume: 85567   The cornect answer is 65,962503
Outsion 6 Incorrect Mark 0.00 out of 1.00 Remove flag	Gines 120 also alspeed square defined by to contex of (4), 29 and edge length of 34 units, flow want to rotate this square by 12 degrees around its center. What is the sum of the elements of the context compose branchimation matrix to achieve this?  Attained:  13  The correct awares = <-0.054177755621695
Question 7 Incorrect Mark 0.00 out of 1.00 V Flag question	To see 3.00 scalar image with a recision of 1999 x 1997 (given as width a height). Tow went to map this bedare on the surface of a sphere. Assuming that you see meant-neighbor interpolation, which between the paper paid will be used to compute the besture value at spherical coordinates (g, #) — (g, 134) (both angles are in degrees)! Assume that the mapping will be accomplished by the following formulae sy — (g, 124) and g = (g, 124) (both angles are in degrees)! Assume that the mapping will be accomplished by the following formulae sy — (g, 124) (both angles are in degrees)! Assume that the mapping will be great the surface of t
Question 8 Incorrect Mark 0.00 out of 1.00 The Remove flag	Given the conditionate of a policy $g$ : $(k-d-3)^2$ in the Viewing Coordinate System ( $a_k$ , the centers coordinate system), what will be the 2D variable coordinates of this point after all viets transformation stages The viewport parameters are $V_{m,k,lm,k}$ with highlit in 103, 157, 156, 159) and the perspective viewing frustom is defined as it is is. It resolutance, (in-Outstance, (in-Out
Question 9 Correct Mark 1.00 out of 1.00 1" Flag question	Assume that the law coordinates of a paysocal tenture point fails between four trees in such a way that it distance to the hostoratal line passing through the centers of the pains above is given by a 1-0-0 and its distance to the vertical line passing through the centers of the pains on the line by 1-0-0 33. The distances are given in tent equal severe the tent width and length and 10 units the line intenties of the producing passing are loss. Puts the group of 2.0 times in 4-2, and post transmission of the fail color that doubt be used for this tendar point assuming bilinear interpolations. Enter your answer below.
Question 10 Partially correct Mark 0.29 out of 1.00 P: Flag question	Given the following camera vectors $u = 0.0932.0  1146  0_s^2 v = (0.1166  0_s^2) v = (0.1$
Overfor 11 Correct Mark 1.00 out of 1.00 IP Flag question	Assume that a digital camera applies gamma correction to the images that it captures using a gamma value of 0.65. What would be the ideal gamma of a display device to view these images?  Answer: 13385
	The correct answer is 1.54
Cueston 12 Cerect Mark 1,00 out of 1,00 I' Flag question	Given a ray whose origin and direction are defined respectively as $\Phi = (5.3, -4.8, -8.9)$ and $\Phi = (7.4, -5.1, 0.7)$ , what will be the sum of the k, y, z positions of this ray for $t = 18.5$ ?  Advance:  227.3
	The connect answer is -227.30
Outside 13 Cerect Mark 1.00 out of 1.00 T Flag question	Assume that a 3AT modeling transformation matrix is defined as follows:    13   0   0     0   4   0     0   0   1     What is the correct bandomistion matrix to transform the normal/2 Enter the missing values in the 3AD normal bandomistion matrix shows below.    COTING   0     0   0   1
Question 14 Incorrect Mark 0.00 out of 1.00 Y' Flag question	Assume that you are trying to compare the specular shading at a surface point using Binn-Phong shading. Your shinness exponent (is. It house exposed in a 2. The direction from the surface point to the trying byte and the recommendation of the surface point to the right just as the surface point of the surface point to the right just as the surface point of the surface point to surface point to the surface point to surface
	The correct answer is 32.158774
Question 15 Correct Mark 1.00 out of 1.00 In Flag question	You are given a scene with 81 vertices. Each vertex is, represented by 3 single-precision (4 bytes) real numbers corresponding to its x - y - z coordinate. You have two medites defined. The first newh is make up of 113 single prices. Beauting that you are using inclined face set representation where each index is represented by an unsigned long integer (4 bytes) what is the total number of bytes completed by the detail. On not consider whitespoots, revellines, etc. Calculate just the data size.  Advance:  [2006]
Question 16	The cornect answer is 3995
Correct Mark 1.00 out of 1.00 F Flag question	Imagine they push was adjustic annex whose image sensor has a with and height of £5 and £3 millimeters respectively. You are also given the horizontal image resolution that will be recorded by this sensor as \$52. What should be the vertical image resolution such that each image give
	The correct answer is 689
Question 17 Correct Mark 1.00 out of 1.00 IV Flag question	Find the sur Infection of a now surf vector w = 15 to 88, along the surface sound direction vector s <sub>10</sub> = 113 0-145,  80 Me and r <sub>10</sub> are given the system originating point on the surface and the surgic between them is between 0 and 50 degrees.  Enter the x <sub>1</sub> x <sub>2</sub> x <sub>3</sub> and z components of the unit-length reflection vector below.  2 x <sub>3</sub> x <sub>4</sub> x <sub>5</sub>
Oversion 18 Incorrect Mark 0.00 out of 1.00  Remove flag	(-9, -3, -4)* is a point defined in the coordinate system of a camera located at $e = (-4, -8, -8, -3)^2$ and with continuous associated as $u = (0.4002, 0.4002, 0.8565)^2$ , $u = (0.0, -10.0004, 0.4002)^2$ , and $u = (0.4002, 0.4002, 0.8565)^2$ .
Overton 19 Incorrect Mark 0.00 est of 1.00 IF Flag question	What will be the binary PPM file size if you save a 2204 x 254 three channel color image where each channel is represented using a single byte? Note that in a binary PPM no space is lost due to white space and each color value is represented using the same number of bytes. Please ignore the size of the header information and provide your answer in bytes.  Advance:  70056 X
	The correct answer is 17542218
Overfor 20 Correct Mark 1,00 out of 1,00 V Flag question	Exter the missing deemets of the 4st nasis below for drawing the reflection of an object from a minor with place equation z = 9.    1