- Owhat does a system represent? component of a system? Explain with example? - 3
- (3) Why is it necessary to decide on the boundary between a system? its environment? 1.25
- 3 What types of simulation are implemented in the application 'Augmented mented in the application 'Augmented reality' 9 Justify and 'virdual reality' 9 Justify and with example? 3
- (3) Is it possible to simulate a system without modeling any entity from outside the boundary of the system? explain with example? 3
- B compare live vintual and constructive simulation with example 3

- O Note down the steps of simulation with appropriate to flowehant? 9
- B Disewor the situations when simulation is not an appropriate tool ?- 1.75
- 1 petine system and model? Note the different type of model? - 2
- O Define attributes, entity and activities of a system with real word example?
- 10 How do simulation improves our
- 1 Explain disentee and continuous simulation 3
- 12) What are properties of transform number ? mention some uses of transform m number - 2.75
- B) Disews similarities and dissimilarity between random number and psedo random number? 3

While designing a pseudo when trandom
number generator Explain why - 3

it is called pseudo? - 2

When generating pseudo number . 1.75

number generator i what are its strength and weakness?

Hyper of tests on pseudo random numbers?

Name some of such tests? - 1.25

(20) Emplain disernete random variables and (1) Difference between Runnup down and Runs above below test 9 1.5

continuous random variables? - 2

E 25 Related math. (23) Disems some application of continuous B why pseudo nandom numbers are suitable (34) Why roandom number need to be tested? (2) Explain chi-square test for mandomness! which test for Rondom number ensures "There should be no favoried number" John simulation on computer? - 1 this proporty? 1.75 system simulation 9,-2 यार रकेड कराउ हाउ जाटान २०१७, 200,00 , विशेष कारहत्या क्षेत्र हेर्स हेर्स के

50+-5/6

Owner is modeling? What are difference of physical modeling and mathematical of modeling 1-3

modeling? & with diagram -3

3 is there a unique model of every

a model 1-2.75

(5) Difference between 20 and 30 object (9 what are advantage of CAD? - 2 model with example? -2.25

(6) Explain the concept of a component De what do u know about Blobby object? model- 3 with diagram -3.5

(A) Define Interpulation and Approximation B Explain cardinal spline interpulation (13) pifference between interpreting Splines ? - 2 @ What is B-spline? Pight down mo thod- 5 12 what Bezier patch? - 2 Spline and Bezin spline? 10 Derive the expression ton the the proportion of B-spline? - 4 heremit blending two-tion to generate, @ what do u mean by Hermit (8) What were the properties of interpolation ? - 1 beizien aurve? 3

O petine self cimilar etatisation

o petine self similar, statisaatically self similar and self affine tractal

Denplain the reandom midpoint dis-

fractal object 1 - 3

3 What istractal object? 2

6 Piseurs different types of fractal

Object? 3.75

Object? 3.75

Object? Scometric construction

of deterministic self similar

The similarity of a self similar tractal is described by its dimension, show that $D = \frac{\ln(n)}{\ln(1/s)}$, where

D is the tractal dimension, n is
the number of sub parts and s
is scaling tactor. - 2.75

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