

DUBLIN INSTITUTE OF TECHNOLOGY

DT228A/1 MSc. in Computing DT228B/1 MSc. in Computing DT228B/2 MSc. in Computing DT265A/2 Higher Diploma in Computing

WINTER EXAMINATIONS 2018/2019

DATA VISUALISATION [SPEC9995]

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DATE & TIME TBA

ONE HOUR AND THIRTY MINUTES

ANSWER ALL OF THE FOLLOWING QUESTIONS

1.	(a)	List two of the main classifications of <i>visualisation</i> . Give a description of each.	(20 marks)
	(b)	Describe the stages of Ben Fry's process of visualisation.	(15 marks)
	(c)	For each of the following plot types, describe one situation where each plot would be appropriate over the others.	
		(i) Histogram (ii) Bar chart (iii) Pie Chart	(15 marks)
2.	(a)	Map projections are used to visualise geospatial data. Describe and compare two different projection systems.	(15 marks)
	(b)	In relation to encoding, what are "distinct values" and how should they be used? Provide examples to support your answer.	(20 marks)
	(c)	List the most appropriate charts to visualise patterns over time with the following data:	
		(i) Discrete points in time	
		(ii) Continuous points in time	
		(iii) Multiple dimensions	
		Use examples to illustrate your selection.	(15 marks)