

2022 City Essay Rubric	0 No Points Requirements missing.	1 Poor Poor–fair quality. Fulfills at least 20% of requirements.	2 Fair Fair–average quality. Fulfills at least 50% of requirements.	3 Good Average quality. Fulfills at least 85% of requirements.	4 Very Good Above average quality. Fulfills 95% of requirements.	SCORE
I. Introduce City and Define the Problem (24 pts)	0	1	2	3	4	
1. City basics • Location • Natural features • Population	No description of city.	Underdeveloped description of city.	Description of city is clear but general and lacks required details.	Clearly developed description of city.	Description is clear and thorough and supported with detailed information.	
2. City life • Description of resident population • Daily life: recreation, jobs	No description of residents or daily life.	Underdeveloped description of residents or daily life.	General description of residents and daily life but needs additional details.	Clearly developed description of city residents and daily life.	Description of both residents & daily life are clear & thorough and supported with detailed information.	
3. Infrastructure • Could include housing, transportation, energy, agriculture, etc. • Incorporates advanced technology	No description of city infrastructure.	Underdeveloped description of infrastructure. Technology is not advanced.	Clear description of one type of infrastructure. Technology is somewhat advanced.	Clear description of one or more types of infrastructure. Technology is advanced.	Clear and thorough description of two or more types of city infrastructure. Technology is very advanced.	
4. City services • Could include education, healthcare, fire, public transport, etc.	No description of city services.	Underdeveloped description of services.	Clear description of one city service.	Clear and thorough description of one or more city services.	Clear and thorough description of two or more services.	
5. City innovation and futuristic elements	No description of innovations and futuristic elements.	Underdeveloped description. Seems like a random collection of information.	Describes innovations and futuristic elements but lacks details.	Clearly developed description of innovations and futuristic elements.	Description is clear and thorough and supported with details.	
6. Describe the selected climate change impact • Climate change effect on city <i>without</i> adaptation or mitigation strategies	No description.	Underdeveloped description with limited details.	General description with sufficient details.	Clear description with a good level of detail.	Clear and thorough description with extensive details.	
II. CLIMATE CHANGE SOLUTION (20)	0	1	2	3	4	
7. Describe Climate Change Adaptation • Includes issue(s) solution addresses • How it works	No description. Underdeveloped description. Not futuristic or innovative.	General description with sufficient details. Somewhat futuristic and innovative.	Clear description with a good level of detail. Futuristic and innovative.	Clear and thorough description with extensive details. Very futuristic and innovative.	Clear and thorough description with extensive details. Very futuristic and innovative.	
8. Climate Change Mitigation • Includes issue(s) solution addresses • How it works	No description. Underdeveloped description. Not futuristic or innovative.	General description with sufficient details. Somewhat futuristic and innovative.	Clear description with a good level of detail. Futuristic and innovative.	Clear and thorough description with extensive details. Very futuristic and innovative.	Clear and thorough description with extensive details. Very futuristic and innovative.	
9. Describe how the adaptation and mitigation keep the residents safe and healthy	No description. Underdeveloped description. No discussion.	General description with sufficient details. Somewhat futuristic and innovative.	Clear description with a good level of detail.	Clear and thorough description with extensive details.	Clear and thorough description with extensive details.	
10. Risks, trade-offs, & compromises of chosen adaptation and mitigation • Benefits, risks • Trade-offs & compromises (for both the adaptation and the mitigation) • Assessment & analysis of risks & trade-offs	Underdeveloped description of at least one benefit, risk, or trade-off. Lacks assessment and analysis.	General description of two benefits, risks, or trade-offs. Assessment and analysis could be improved.	Clear description of two or more benefits, risks, or trade-offs. Good assessment and analysis.	Clear and thorough description of two or more benefits, risks, or trade-offs. Excellent assessment and analysis.	Clear and thorough description of two or more benefits, risks, or trade-offs. Excellent assessment and analysis.	
11. Engineering disciplines involved and roles of engineers	No description. Underdeveloped description of 1 discipline or role.	General description of more than one discipline and/ or role.	Clear description of at least two disciplines and roles.	Clear and thorough description of more than two disciplines and roles.	Clear and thorough description of more than two disciplines and roles.	
II. Writing Skills (6 pts)	0	1	2			
12. Organization & Writing	No clear structure. Simplistic skills and style.	Organization mostly makes sense but could be better. Good skills and style.	Essay has a logical order and details are presented effectively. Excellent skills and style.			
13. Grammar & Spelling	Many spelling and grammatical errors.	Some spelling and grammatical errors.	Minimal grammatical and spelling errors if any.			
14. Graphics, References, & Word Count • If used, maximum of 4 graphics/ illustrations (count does not include tables) • At least three acceptable references (Wikipedia is not an acceptable reference) • All words except the title and reference list are included in the 1,500-word count. Word count includes captions and words in graphics, illustrations, and tables	No references: or word count is missing or inaccurate; or exceeds maximum of 4 graphics or illustrations.	Fewer than three acceptable references and/ or inaccurate word count.	At least three acceptable references. Accurate word count that is within limit. Does not exceed maximum of 4 graphics or illustrations.			
						Total Points