

Total No. of Questions: 6

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Enrollment No.....



Faculty of Engineering
End Sem (Odd) Examination Dec-2022
CE3EC09

Urban Planning and Sustainable Development

Programme: B.Tech.

Branch/Specialisation: CE

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d

- Q.1 i. 1 hectare is equal to- **1**
(a) 1.0 sq km (b) 0.1 sq km
(c) 0.01 sq km (d) 0.001 sq km
- ii. The overall density of population of a settlement is the ratio **1**
between-
(a) Total population to total built-up area
(b) Adult population to total built- up area
(c) Total population to total residential area
(d) Total population to total area
- iii. What is the advantage of centralization? **1**
(a) Inflexibility (b) De motivating
(c) Improved morale (d) Efficiency
- iv. What are the disadvantages of decentralization? **1**
(a) Execution of tasks made easier
(b) Costly
(c) Input from the workforce
(d) Teamwork
- v. Which of the following is not a purpose of urban planning? **1**
(a) Promote public health
(b) Public safety
(c) Social welfare
(d) Maximising benefits to a given social class

P.T.O.

[2]

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| vi. | External cordan survey and internal cordan survey are techniques for conducting- | 1 |
| | (a) Environmental survey (b) Socio-economical survey | |
| | (c) Traffic survey (d) Income Survey | |
| vii. | A _____ is very useful equipment and it can be used for construction work like to clear the site, to make land level etc. | 1 |
| | (a) Scraper (b) Grader (c) Excavator (d) Bulldozer | |
| viii. | The size of bulldozer is indicated by the dimension of its- | 1 |
| | (a) Site (b) Tyre (c) Engine (d) Blades | |
| ix. | Which of the following is not included in basic services in a developing country? | 1 |
| | (a) Broadband (b) Water supply | |
| | (c) Paved roads (d) Drainage | |
| x. | From the perspective of sustainability, the number of people an ecosystem can support indefinitely is called- | 1 |
| | (a) Sustenance capacity (b) Carrying capacity | |
| | (c) Development capacity (d) Design capacity | |
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| Q.2 | i. | What is the principal of urban planning? | 2 |
| | ii. | Explain various stages in town planning. | 3 |
| | iii. | Explain various development control regulation and their need for development of city/ town. | 5 |
| OR | iv. | Discuss challenges and issues of urban planning practice in India. | 5 |
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|-----|------|--|---|
| Q.3 | i. | Write short note on zoning. | 2 |
| | ii. | Discuss about the urban planning agencies and their function. | 8 |
| OR | iii. | Explain the need of surveys. What are the various types and how is it applicable in town planning? | 8 |
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| Q.4 | i. | Write short note on surface drain and garden city. | 3 |
| | ii. | Differentiate between decentralization and recentralization. | 7 |
| OR | iii. | Discuss the objects of re-planning in detail. | 7 |
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| Q.5 | i. | Write down the functions of hosting equipments. | 4 |
| | ii. | Classify different types of hauling equipments. Mention its uses. | 6 |

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| OR | iii. | Compare the characteristics and application of different types of earth excavating equipment. | 6 |
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| Q.6 | | Attempt any two: | |
| | i. | Describe the important aspects of Gandhi Nagar city planning. | 5 |
| | ii. | Explain the different methods for execution of master plan. | 5 |
| | iii. | Discuss the various stages of preparation of master plan. | 5 |

Marking Scheme CE3EC09
Urban Planning and Sustainable Development

Q.1	i.	1 hectare is equal to-		1
		(c) 0.01 sq km		
	ii.	The overall density of population of a settlement is the ratio between-		1
		(d) Total population to total area		
	iii.	What is the advantage of centralization?		1
		(d) Efficiency		
	iv.	What are the disadvantages of decentralization?		1
		(b) Costly		
	v.	Which of the following is not a purpose of urban planning?		1
		(d) Maximising benefits to a given social class		
	vi.	External cordan survey and internal cordan survey are techniques for conducting-		1
		(c) Traffic survey		
	vii.	A _____ is very useful equipment and it can be used for construction work like to clear the site, to make land level etc.		1
		(d) Bulldozer		
	viii.	The size of bulldozer is indicated by the dimension of its-		1
		(d) Blades		
	ix.	Which of the following is not included in basic services in a developing country?		1
		(a) Broadband		
	x.	From the perspective of sustainability, the number of people an ecosystem can support indefinitely is called-		1
		(b) Carrying capacity		
Q.2	i.	Principal of urban planning		2
	ii.	Various stages in town planning.		3
	iii.	Development control regulation	3 marks	5
		Their need for development of city/ town	2 marks	
OR	iv.	Challenges of urban planning practice in India	3 marks	5
		Issues of urban planning practice in India	2 marks	
Q.3	i.	Zoning.		2

OR	ii.	Various urban planning agencies	2 marks	8
		Their function 2 marks for explaining each function	6 marks	
	iii.	Need of surveys	2 marks	8
		Various types	1 mark	
Q.4		Applicable in town planning	5 marks	
	i.	Surface drain	1.5 marks	3
		Garden city	1.5 marks	
	ii.	Differentiate between decentralization and recentralization.		7
OR		Any seven differences 1 mark for each	(1 mark * 7)	
	iii.	Any seven objects of re-planning		7
		1 mark for each	(1 mark * 7)	
Q.5	i.	Functions of hosting equipments.		4
	ii.	Correct Classification	2 marks	6
		Its uses.	4 marks	
	iii.	Characteristics excavating equipment	2 marks	6
OR		Application of different types	4 marks	
Q.6		Attempt any two:		
	i.	Important aspects of Gandhi Nagar city planning.		5
		As per the explanation		
	ii.	Methods for execution of master plan		5
		Any two methods		
	iii.	Five stages of preparation of master plan.		5
