

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE- SEMESTER-I & II(NEW)EXAMINATION – SUMMER 2022****Subject Code:3110004****Date:08-08-2022****Subject Name:Basic Civil Engineering****Time:10:30 AM TO 01:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS															
<b>Q.1</b>	(a) What is a role of civil engineer in the society?	<b>03</b>															
	(b) Explain the important pillars of smart city.	<b>04</b>															
	(c) The following bearings were taken on a closed traverse PQRS find out internal angles and correct them if necessary	<b>07</b>															
	<table border="1" style="width: 100%; border-collapse: collapse; margin: 0 auto;"> <thead> <tr> <th style="width: 33%;">Line</th> <th style="width: 33%;">FB</th> <th style="width: 33%;">BB</th> </tr> </thead> <tbody> <tr> <td>PQ</td> <td style="text-align: center;">40°00'</td> <td style="text-align: center;">220°00'</td> </tr> <tr> <td>QR</td> <td style="text-align: center;">80°25'</td> <td style="text-align: center;">260°25'</td> </tr> <tr> <td>RS</td> <td style="text-align: center;">145°50'</td> <td style="text-align: center;">325°50'</td> </tr> <tr> <td>SP</td> <td style="text-align: center;">270°50'</td> <td style="text-align: center;">90°50'</td> </tr> </tbody> </table>	Line	FB	BB	PQ	40°00'	220°00'	QR	80°25'	260°25'	RS	145°50'	325°50'	SP	270°50'	90°50'	
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<b>Q.2</b>	(a) Why the town planning is essential and necessary?	<b>03</b>															
	(b) Explain the primary divisions of surveying.	<b>04</b>															
	(c) Explain the classification of buildings in detail.	<b>07</b>															
	<b>OR</b>																
	(c) Explain the classification of surveying in detail.	<b>07</b>															
<b>Q.3</b>	(a) Explain the types of meridians.	<b>03</b>															
	(b) What points are to be kept in mind while selecting the site for a residential building?	<b>04</b>															
	(c) Explain in detail features of smart city	<b>07</b>															
	<b>OR</b>																
<b>Q.3</b>	(a) Enlist and explain types of bearing with neat sketch.	<b>03</b>															
	(b) Discuss the types of traffic signs and draw traffic sign for speed limit, no-parking and cross road.	<b>04</b>															
	(c) Explain the principles of building planning.	<b>07</b>															
<b>Q.4</b>	(a) Write the advantages and dis advantages of riverfront development.	<b>03</b>															
	(b) Write a short note on growth of towns.	<b>04</b>															
	(c) Explain the impact of industrial development on the economy of the country.	<b>07</b>															
	<b>OR</b>																
<b>Q.4</b>	(a) What is solid waste management? Discuss in brief the classification of solid waste.	<b>03</b>															
	(b) Discuss the concept of smart city.	<b>04</b>															
	(c) Enlist types of bonds in masonry. Draw a neat sketch of english bond and explain it	<b>07</b>															
<b>Q.5</b>	(a) Discuss the main reasons for the slum formation.	<b>03</b>															

- (b) Discuss in brief the scope of civil engineering according to field of work. **04**  
(c) Explain with neat sketch key plan, site plan, and layout plan. **07**

**OR**

- Q.5** (a) What is the concept of BRTS? Discuss its advantages and disadvantages. **03**  
(b) Define zoning. Write objectives and principles of zoning. **04**  
(c) What are the properties of good bricks? Discuss the classification of bricks. **07**

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