Enrollment No:	Exam Seat No:	
	C. U. SHAH UNIVERSITY	
	Summer Examination-2022	

Subject Name: Dock Harbour and Airport Engineering

Subject Code: 4TE08DHA1 Branch: B.Tech (Civil)

Semester: 8 Date: 04/05/2022 Time: 11:00 To 02:00 Marks: 70

Instructions:

0-4

(a)

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Attempt all questions

type gate.

0.4			(4.A)
Q-1		Attempt the following questions:	(14)
	a)	J 1 1 C	(1)
	b)	What is Rudder?	(1)
	c)	What are the objectives of regional planning?	(1)
	d)	What is the runway orientation?	(1)
	e)	What is the function of hangar?	(1)
	f)	What do you understand by terminal building?	(1)
	g)	What is airport grading?	(1)
	h)	What do you mean by the term visual aid at airport?	(1)
	i)	What are slipways?	(1)
	j)	What is harbor planning?	(1)
		What are the important wind characteristics?	(1)
	1)	Define Tidal range.	(1)
	m)	Why fenders are provided on docking platform?	(1)
	n)	What is floating dock?	(1)
Attei	npt any	four questions from Q-2 to Q-8	
Q-2		Attempt all questions	(14)
	(a)	What is the significance of water transportation compare to other modes of transportation? Explain in detail.	(7)
	(b)	Explain the following with neat sketches. i) Natural harbor ii) Semi-natural harbor	(7)
Q-3		Attempt all questions	(14)
	(a)	Explain the Beaufort scale and its use.	(7)
	(b)	What is need of breakwater? Describe wall types breakwater.	(7)



What are the different types of lock gates? Explain with sketch the mitre

(14)

(7)

	(b)	List various cargo handling equipment's and explain any two	(7)
Q-5		Attempt all questions	(14)
	(a)	Write a note on different types of buoys	(7)
	(b)	What is dredging? Classify different types of dredging works.	(7)
Q-6		Attempt all questions	(14)
	(a)	Describe aero plane component parts drawing sketch.	(7)
	(b)	Explain what is meant by stop way and clear way.	(7)
Q-7		Attempt all questions	(14)
	(a)	Mention different types of wind rose diagram and their utility.	(7)
	(b)	What are the requirements of good hangar site?	(7)
Q-8		Attempt all questions	(14)
	a)	Write short note on:	(7)
		i) Airport access system.	
		ii) Decentralized concept of planning terminal building	
	b)	What do you understand by mass-haul curve? what information can be obtained from it? Explain the procedure of working with this curve.	(7)

