| Envol | lmont N | Jo: | Exam Seat No: | | | | |
|---|--|---|-------------------------------|---|--|--|--|
| EIIIO | ппен г | | | | | | |
| | | C.U.SHAH U | NIVERSIIY | | | | |
| | | Summer Exar | nination-2019 | | | | |
| Subject Name: Dock Harbor and Airport Engineering | | | | | | | |
| Subject Code: 4TE08DHA1 | | | Branch: B.Tech (Civil) | | | | |
| Seme | ster: 8 | Date: 18/04/2019 | Time: 10:30 To 01:30 | Marks: 70 | | | |
| (1 (2 (3 |) Instru) Draw | of Programmable calculator & any of actions written on main answer book neat diagrams and figures (if necessite suitable data if needed. | k are strictly to be obeyed. | rohibited. | | | |
| Q-1 | b) c) d) e) f) g) h) i) j) k) l) m) n) | Attempt the following questions: What is wind rose diagram? What is airport grading? Enlist major seaports in India. What do you mean by the term vis Define airport capacity. What are the main components of What is need of breakwater? What is runway orientation? Define the term draft. What is floating dock? What is the function of hanger? What is ferry? What is the full form of AAI? LORAN stands for | ual aid at airport? | (14) 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | |
| 0.2 | | A44 4 10 4* | | (1.4) | | | |
| Q-2 | A B | Attempt all questions What is harbor planning? List the planning. Give guiding principles of Discuss functions of airport draina | of harbor planning. | | | | |
| Q-3 | A | drainage system. Attempt all questions Explain in detail the effects of weidesign of airports. What are the difference of the system of the | ght components in the plannin | g and (14) | | | |

What are the important wind characteristics? Explain the Beaufort scale

used to support the airport weight?

and its use.

Attempt all questions

В

A

В

Q-4



7

(14)

7

7

| | | wooden and rubber fenders. | |
|------------|--------------|---|-------------|
| Q-5 | | Attempt all questions | (14) |
| | \mathbf{A} | Describe the corrections to be applied to the calculated basic runway | 7 |
| | | length to get its actual length. | |
| | В | What are the different types of lock gate? Explain them with sketch. | 7 |
| Q-6 | | Attempt all questions | (14) |
| | \mathbf{A} | Write short note on: | 7 |
| | | 1) Airport access system. | |
| | | 2) Centralized system of planning. | |
| | В | List various cargo handling equipment's and explain any two. | 7 |
| Q-7 | | Attempt all questions | (14) |
| | \mathbf{A} | Write short note on: | 7 |
| | | 1) Runway lighting. | |
| | | 2) Taxiway lighting. | |
| | В | What are the purpose of the navigational aids? Explain any one types of | 7 |
| | | navigational aids. | |
| Q-8 | | Attempt all questions | (14) |
| | \mathbf{A} | What are the objectives of dredging? Explain dipper dredger. | 7 |
| | В | What is the function of taxiway in airports? Draw cross section of | 7 |
| | | taxiway showing all components. | |

