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**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF ENGINEERING
MID TERM EXAMINATION - NOV 2023**

Semester : Semester V - B.Tech CIV - 2021

Course Code : CIV2023

Course Name : Sem V - CIV2023 - Airport Engineering and Harbour

Program : B. TECH

Date : 6-NOV-2023

Time : 9:30AM - 11:00AM

Max Marks : 50

Weightage : 25%

Instructions:

- (i) Read all questions carefully and answer accordingly.
 - (ii) Question paper consists of 3 parts.
 - (iii) Scientific and non-programmable calculator are permitted.
 - (iv) Do not write any information on the question paper other than Roll Number.
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PART A

ANSWER ALL THE QUESTIONS

(2 X 5 = 10M)

1. What are the objectives of airport survey?

(CO1) [Knowledge]

2. What are the zoning laws applied near the airport site?

(CO1) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(2 X 10 = 20M)

3. There are four modes of transportation and air transport is gaining popularity fast. What are the advantages and disadvantages of air transport?

(CO1) [Comprehension]

4. Selection of a site to construct an airport is a tough task, failing which the whole process will become uneconomical. What are the factors affecting airport site selection?

(CO1) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS

(1 X 20 = 20M)

5. a) What are the factors influencing runway orientation?
b) Table shows typical wind data for an airport site. Determine the best orientation of the runway and percentage of time during which the runway can be used. Does it require a second runway? If so determine total coverage.

Wind Direction	Percentage of Time
N	10.3
NNE	8.1
NE	3.9
ENE	1.8
E	1
ESE	0.4
SE	7.1
SSE	8.7
S	14.3
SSW	10
SW	5.7
WSW	1.6
W	0.5
WNW	0.3
NW	7.2
NNW	5.6

(CO2) [Application]