



Even Semester End Term Examination, May / June 2026

Date: 27/05/2026

Time: 01.00 PM - 04.00 PM

Course Code: BAV3019

Course Name: Airport and Aircraft Emergencies

Semester: Sixth Semester

Max. Marks: 100

Weightage: 50%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	36	36	36	36	36

Part A: Answer Following Questions. 20 M

Qn.No	Questions	M	CO	BT
1	Recognize the importance of safety promotion in SMS.	2	CO1	BT1
2	List the components of SMS.	2	CO1	BT1
3	State the objective of rescue and firefighting services.	2	CO2	BT1
4	Identify the significance of emergency access roads.	2	CO2	BT1
5	Describe an aircraft accident.	2	CO3	BT1
6	Recognize the objective of occurrence reporting systems.	2	CO3	BT1
7	State the importance of human factors training.	2	CO4	BT1
8	Identify the role of communication in human factors.	2	CO4	BT1
9	Describe dangerous goods.	2	CO5	BT1
10	List common dangerous goods transported by air.	2	CO5	BT1

Part B: Answer Any 1 Following Questions. 16 M

Qn.No	Questions	M	CO	BT
11.a	Explain the key requirements of an SMS implementation plan under AIP funding.	6	CO1	BT2
11.b	Analyze the process of SMS implementation and apply strategies to overcome its challenges.	10	CO1	BT3
12.a	Describe the role of ICAO in ensuring aviation safety regulations.	6	CO1	BT2
12.b	Demonstrate the development of a strong safety culture using	10	CO1	BT3

safety promotion techniques.			
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Part C: Answer Any 1 Following Questions. 16 M

Qn.No	Questions	M	CO	BT
13.a	Explain the concept of aviation emergencies and distinguish them from abnormal situations.	6	CO2	BT2
13.b	Analyze hijack situations and apply appropriate response strategies.	10	CO2	BT3
14.a	Describe the standard procedures followed during a bomb threat.	6	CO2	BT2
14.b	Apply emergency planning concepts to demonstrate the importance of access roads and water supply.	10	CO2	BT3

Part D: Answer Any 1 Following Questions. 16 M

Qn.No	Questions	M	CO	BT
15.a	Describe the essential elements involved in security occurrence reporting.	6	CO3	BT2
15.b	Analyze different types of reportable occurrences and apply classification methods.	10	CO3	BT3
16.a	Explain the objectives of DGCA occurrence reporting systems.	6	CO3	BT2
16.b	Apply reporting procedures to demonstrate how occurrences are notified to authorities.	10	CO3	BT3

Part E: Answer Any 1 Following Questions. 16 M

Qn.No	Questions	M	CO	BT
17.a	Explain the Swiss Cheese Model of accident causation.	6	CO4	BT2
17.b	Apply threat and error management strategies in aviation scenarios.	10	CO4	BT3
18.a	Describe the role of Crew Resource Management (CRM) in minimizing human error.	6	CO4	BT2
18.b	Analyze the influence of organizational culture and apply methods to improve safety performance.	10	CO4	BT3

Part F: Answer Any 1 Following Questions. 16 M

Qn.No	Questions	M	CO	BT
19.a	Describe the labeling and marking requirements for radioactive materials.	6	CO5	BT2
19.b	Analyze packaging requirements and apply safety measures for radioactive materials.	10	CO5	BT3

20.a	Explain the role of regulatory bodies such as ICAO and IATA in DG transport.	6	CO5	BT2
20.b	Illustrate the handling of dangerous goods using classification principles in aviation.	10	CO5	BT3