



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

## AERONAUTICAL ENGINEERING

### DEFINITIONS AND TERMINOLOGY QUESTION BANK

Course Name	:	AIRPORT OPERATIONS
Course Code	:	AAE530
Program	:	B.Tech
Semester	:	VII
Branch	:	Aeronautical Engineering
Section	:	A&B
Academic Year	:	2019– 2020
Course Faculty	:	Dr. Yagya Dutta Dwivedi, Professor

#### OBJECTIVES:

I	To help the students to remember terminologies and nomenclatures used in the syllabus.
II	To define few new words / terminology/nomenclature related to airport operations.

### DEFINITIONS AND TERMINOLOGY QUESTION BANK

S.No	QUESTION	ANSWER	Blooms Level	CO	CLO	CLO Code
<b>UNIT I</b>						
1	Define private airport.	The airport operated and managed by private organization.	Remember	CO1	CLO1	AAE530.01
2	Define operation in airport	The activities undertaken in airport to operate the aircraft is called operation in airport.	Remember	CO1	CLO1	AAE530.01
3	Define commercial service airport.	The airport which is used for commercial purpose to serve the people by payment.	Remember	CO1	CLO1	AAE530.01
4	Primary service airport	The airport which provide all the services to passenger.	Remember	CO1	CLO1	AAE530.01
5	General Aviation	The activities taken at airports are in general nature i.e. training, recreational etc.	Remember	CO1	CLO1	AAE530.01
6	Airport master plan	The plan of an airport prepared few years in advance in the city to make an airport.	Remember	CO1	CLO1	AAE530.01
7	Layout plan	The drawing related plan is called layout plan.	Remember	CO1	CLO1	AAE530.01
8	Define Airport model	The model for airport prepared in advanced before the construction on an AP.	Remember	CO1	CLO1	AAE530.01
9	Define reliever airport	The airport which is used to reduce the burden in case heavy traffic or any accident at runway.	Remember	CO1	CLO1	AAE530.01

S.No	QUESTION	ANSWER	Blooms Level	CO	CLO	CLO Code
10	Define financial Plan	The plan which is prepared to get the finances during operation of the airport.	Remember	CO1	CLO1	AAE5301.01
11	Define land use planning	The planning which is done before the use of land for different purposes at the airport.	Remember	CO1	CLO2	AAE530.02
12	Define ramp	The airport apron. Ramp or tarmac, is the area of an airport where aircraft are parked.	Remember	CO1	CLO2	AAE530.02
13	Define airport routing	The airport which provide the route for the airplanes are called airport routing.	Remember	CO1	CLO2	AAE530.02
14	Define routing cycle	The frequency of the routing of an airport is called routing cycle.	Remember	CO1	CLO2	AAE5301.02
15	Debriefing	The briefing which is conducted after completion of flying mission.	Remember	CO1	CLO2	AAE530.02
<b>UNIT II</b>						
1	Define Airport system planning.	The airport itself is a system and planning to undertake airport operation is called airport system planning.	Remember	CO2	CLO5	AAE530.05
2	Define the term airport master plan.	The master plan which is able to cater for all future needs of the airport.	Remember	CO2	CLO5	AAE530.05
3	Define the term Airport layout plan.	The airport layout plan is the plan which gives exact layout of all the facilities which are going to be constructed.	Remember	CO2	CLO5	AAE530.05
4	Define forecasting	Forecasting is a method to predict the future requirements of services may be used.	Understand	CO2	CLO2	AAE530.05
5	Ground handling	The handling of cargo/goods/passenger in a systematic way.	Understand	CO2	CLO5	AAE530.05
6	Airport system	The airport consists of many components, the combination of the components to perform united way is called system.	Understand	CO2	CLO5	AAE5301.05
7	Define external ramp	The tarmac or apron available in open condition is called external ramp.	Remember	CO2	CLO5	AAE530.05
8	Define plateau region	The region with a large high area of flat land. A state where there is a little development or change.	Remember	CO2	CLO5	AAE5301.05
9	Mean sea level (MSL)	The altitude of the point on Earth measured from the mean sea level.	Understand	CO2	CLO6	AAE530.06
10	Define facilities in airport	The provisions available in an airport to make operations smooth.	Understand	CO2	CLO6	AAE530.06
11	Define ground handling	The handing of ground activities such as passenger/cargo/goods in a systematic way.	Understand	CO2	CLO6	AAE530.06
12	Define passenger handling	The passenger when reach to airport they should be given at most care and to look after better way.	Remember	CO2	CLO7	AAE530.07

S.No	QUESTION	ANSWER	Blooms Level	CO	CLO	CLO Code
13	Define departure control	The control of the aircraft during departure and also control of passenger to reach in the aircraft is smooth way without any troubles.	Remember	CO2	CLO7	AAE530.07
14	Management performance matrix	The activities performed by management to get the best results and best output by existing resources.	Remember	CO2	CLO7	AAE530.07
15	Baggage handling	The handling of goods and passenger baggage from gate to aircraft and from aircraft to gate without any damage and theft.	Remember	CO2	CLO7	AAE530.07
<b>UNIT III</b>						
1	Define technical services	The services available at the airport to look after engineering facility and safety equipments.	Remember	CO3	CLO9	AAE530.09
2	Define telecommunication	The communication by the help of radio system to communicate from one point to other.	Remember	CO3	CLO9	AAE5301.09
3	define Meteorology	Meteorology is the scientific study of the atmosphere that focuses on weather processes and forecasting.	Remember	CO3	CLO9	AAE530.09
4	Define AIS	Aircraft information system is the brain of any aircraft.	Remember	CO3	CLO9	AAE530.09
5	Define Airport Access	The free movement of the passengers and cargo in any airport.	Remember	CO3	CLO9	AAE530.09
6	Define Modal choice	Modal choice decision process leads to the inclusion of a spatial component in the modal choice.	Remember	CO3	CLO9	AAE530.09
7	Define Airport Terminal	An airport terminal is a building at an airport where passengers transfer between ground transportation and the facilities that allow them to board and disembark from an aircraft.	Remember	CO3	CLO9	AAE530.09
8	Define ATC	Air traffic control (ATC) is a service provided by ground-based air traffic controllers who direct aircraft on the ground and through controlled airspace, and can provide advisory services to aircraft in non-controlled airspace.	Remember	CO3	CLO10	AAE530.10
9	Define flight watch	This is a procedure by which flight dispatch /flight operations personnel monitor the progress of individual flights.	Remember	CO3	CLO10	AAE530.10
10	Spoke Airports	Hub and subsidiary hub airports are characterized as airports that have little destined or originating local traffic	Remember	CO3	CLO10	AAE5301.10
11	Functions of ATC	The primary purpose of ATC is the prevention of collisions between aircraft in flight and also between aircraft and any obstructions either moving or stationary on an airport	Remember	CO3	CLO10	AAE530.10
12	Define VFR	Visual flight rules (VFR). Observed by aircraft flying in weather conditions equal to or above	Remember	CO3	CLO11	AAE530.11

S.No	QUESTION	ANSWER	Blooms Level	CO	CLO	CLO Code
		prescribed limits.				
13	Define IFR	Instrument flight rules (IFR). Observed by aircraft in weather conditions below VFR limits and/or in Class A airspace.	Remember	CO3	CLO11	AAE530.11
14	Define fixed services	Fixed-service communication fills the need for a rapid means of point-to-point ground communications between fixed points	Remember	CO3	CLO11	AAE530.11
15	Define Pier	A pier is a raised structure in a body of water, typically supported by well-spaced piles or pillars.	Remember	CO3	CLO11	AAE530.11
<b>UNIT IV</b>						
1	Define the technical services	The equipments and facilities available for the use for aircraft and airport are called the technical services.	Remember	CO4	CLO13	AAE530.13
2	SID	Standard Instrument Departure	Remember	CO4	CLO13	AAE530.13
3	STAR	Standard instrument arrival route	Remember	CO4	CLO13	AAE530.13
4	SRA	Surveillance Radar Approach	Remember	CO4	CLO13	AAE530.13
5	Fencing	The barriers used to prevent unauthorized access to the airport.	Remember	CO4	CLO2	AAE530.13
6	Access gate	The gate used to enter the apron area to board the aircraft.	Remember	CO4	CLO13	AAE530.13
7	Cargo market	The market where cargo is in demand and dispatched by the airport.	Remember	CO4	CLO13	AAE530.13
8	Apron	The place where all aircraft are parked and all GSE are positioned.	Remember	CO4	CLO13	AAE530.13
9	Flight rules	The rules which gives instruction to flight from one place to other.	Remember	CO4	CLO2	AAE530.13
10	IFR	Instruments flight rules, the rules in which airplane is flown by the help of instruments.	Remember	CO4	CLO13	AAE530.13
11	Separation Minima	The minimum separation between two consecutive aircraft when in flying mode.	Remember	CO4	CLO13	AAE530.13
12	Urgent Operational Information	The information needed for urgent requirement to meet the safety standards.	Remember	CO4	CLO13	AAE530.13
13	Level of Protection	The airport is made to safe flying operations for the passengers and also their crew members. The level is different for different strategy.	Remember	CO4	CLO14	AAE530.14
14	Foaming of Runway	The runways are foamed to protect from fire hazards.	Remember	CO4	CLO14	AAE530.14
15	ACOS	Airport operation control system, it's the nervous system of the any airport.	Remember	CO4	CLO17	AAE530.14
<b>UNIT V</b>						
1	AOCC	Airport operation control coordinator is the authority which will manage the AOCS.	Remember	CO5	CLO17	AAE530.17

S.No	QUESTION	ANSWER	Blooms Level	CO	CLO	CLO Code
2	Noise Impact	The noise pollution in airport has to be monitored so that it should not affect the peoples and wild life.	Remember	CO5	CLO17	AAE530.17
3	Local Air Quality	The local air quality has to be monitored in airport to have good health for all.	Remember	CO5	CLO17	AAE530.17
4	Biodiversity	The diversity of birds and greenery to be maintained near the airport.	Remember	CO5	CLO17	AAE530.17
5	SMGCS	Surface Movement Guidance Control System.	Memorize	CO5	CLO17	AAE530.17
6	RVR	Runway Visual Range, The range or distance which can be viewed from the runway	Remember	CO5	CLO17	AAE530.17
7	ILS	Instrument Landing System, the landing is performed with the help of instruments fitted in cockpit.	Remember	CO5	CLO17	AAE530.17
8	VFR	Visual Flight Rules, these are the rules used for visual aids.	Remember	CO5	CLO17	AAE530.17
9	IFR	Instruments Flight Rules	Remember	CO5	CLO17	AAE530.17
10	ARTCC	Air Route Traffic Control Center	Remember	CO5	CLO17	AAE530.17
11	Define EASA	The EASA is the European Aviation Safety Agency which deals with safety and training aspects of all the airports of Europe.	Remember	CO5	CLO17	AAE530.17
12	Define RESA	The RESA is the Runway End Safety Area, it's used for the runway safety aspects.	Remember	CO5	CLO17	AAE530.17
13	Spoke Airports	Hub and subsidiary hub airports are characterized as airports that have little destined or originating local traffic	Remember	CO5	CLO18	AAE530.18
14	Fixed Mechanism	The very rapid growth in the use of ULDs in aircraft has led to cargo terminal operations in which extensive fixed mechanical systems.	Remember	CO5	CLO18	AAE530.18
15	Open Mechanism	The open mechanized system has been used for some time in developed countries at medium- flow terminals.	Remember	CO5	CLO18	AAE530.18

Signature of the Faculty

HOD (AE)

Dr. Yagya Dutta Dwivedi