

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2018

Course: MBA (AVM)	Semester: III
Programme: AERODROME DESIGNS AND OPERATIONS	Time: 03 hrs.
Code: TRAV8002	Max. Marks: 100

Instructions: QP has in four sections and all are compulsory.

SECTION A

S. No.	Note: Attempt All (True / False)	Marks	CO
Q 1	Command Post should be established as quickly as possible, preferably at the same time as the initiation of fire control and rescue activities.	1	CO2
Q 2	“Full Emergency” is declared when an aircraft approaching the airport is, or is suspected to be, in such trouble that there is imminent danger for an accident.	1	CO1
Q 3	Priority I mean delayed care of causality.	1	CO1
Q 4	Priority 4 passenger is shifted to survival reception center.	1	CO1
Q 5	Class C Fires — flammable gases under pressure including liquefied gases/ electric fire.	1	CO2
Q 6	Removal of disabled aircraft removal is the responsibility of airport operator.	1	CO1
Q 7	Trained Falcon and Dogs are deployed at airport as a part of Wild Life Management.	1	CO2
Q 8	Clearway shall be provided at the end of each runway.	1	CO1
Q 9	All markings on runway shall be of white colour.	1	CO2
Q 10	Colour of taxiway centre line markings shall be of yellow colour.	1	CO2
Q 11	Runway edge lights shall be fixed green lights.	1	CO2
Q 12	Runway end lights shall be fixed variable white.	1	CO2
Q 13	The only signs on the movement area utilizing red shall be mandatory instruction sign.	1	CO1
Q 14	A NO ENTRY sign shall be provided when entry into an area is prohibited.	1	CO1
Q 15	A runway exit sign shall be provided where there is an operational need to identify a runway exit.	1	CO1

SECTION B**Note: Attempt All (Elaborate each)**

Q 1	EOC	1	CO1
Q 2	VDGS	1	CO1
Q 3	EMC	1	CO1
Q 4	DCP	1	CO2
Q 5	PPE	1	CO2
Q 6	ARFF	1	CO1
Q 7	BASH	1	CO2
Q 8	BNHS	1	CO2
Q 9	AEMC	1	CO1
Q 10	WHMP	1	CO1
Q 11	DGCA	1	CO2
Q 12	AAI	1	CO2
Q 13	BCAS	1	CO1
Q 14	IATA	1	CO1
Q 15	PAPI	1	CO2
	Note: Attempt All (Fill in the blanks)		
Q 1	Vicinity of airport is an area up to ____ Km in the approach path of runway and in other areas _____ km around the airport boundary.	1	CO2
Q 2	Heat transfer takes place through _____, _____ and _____.	1	CO1
Q 3	CO2 extinguisher is applied on _____ fire.	1	CO2
Q 4	Aerodrome category for rescue and firefighting depends on _____ & _____.	1	CO2
Q 5	Response time is not exceeding ____ minutes.	1	CO1
Q 6	Response time is not exceeding ____ minutes.	1	CO1
Q 7	IATP aircraft recovery kit is positioned at _____ in India.	1	CO2
Q 8	Most venerable area for bird strike is _____ of an aircraft.	1	CO2

Q 9	It is international practice to express bird strikes as the number of bird strike per _____ aircraft movements.	1	CO1
Q 10	Clearance distances on aircraft stands for code letter “E” is _____.	1	CO2
SECTION-C Note: Attempt All			
Q 1	Draw flags (dimensions and colors) to indicate marking on a mobile object and a fixed object.	5	CO3
Q 2	What do you understand with Aerodrome Reference Code?	5	CO2
Q 3	Draw a diagram of PAPI showing colour of each light units to show all the possible scenario.	5	CO2
Q 4.	Define the following : i. Runway ii. Taxiway iii. Apron iv. Aerodrome reference point v. Frangible object.	10	CO2
SECTION-D Note: Attempt All			
Q 1	Calculate the declared distance of runway 28/10 with the following available data. i. Physical length of runway 28/10 is 3895 m ii. Clearway – runway 28 is 200 m /runway 10 is 250 m iii. Stopway – runway 28 is 75 m /runway 10 is 50 m iv. Threshold of runway 28 is displaced by 450 m.	10	CO4
Q 2	Draw a diagram to show the following markings on an instrument runway 19L/01R of code letter “E”. i. Threshold marking on runway 19L at the extremity. ii. Permanent displaced threshold marking on runway 01R . iii. Runway centre line marking. iv. Aiming point marking. v. Touchdown marking with coded information.	10	CO4
Q 3	Draw and label a CATII ALS.	15	CO4