## POST GRADUATE DIPLOMA IN FIRE SAFETY AND DISASTER MANAGEMENT (PGDFSTYDM)

				Term-End Exa June, 2		00218		
	]	MSE	E	-001 : AIRPOR	T FIR	E SAFETY		
Time	: 3 h	iours			λ	1aximum Marks : 100		
Note	(	(ii) (iii) (iii) (iv) (v)	A M ea T S	larks allotted to a ach question. he questions may	question question be ansu ims sho	s from remaining. a are shown opposite to pered in <b>any</b> order. uld be used wherever		
1.	(A)	Ti	ick	the correct ans	swer.	2x10=20		
	(i)	le	nę	nt would be cate gth 1 meter ar ers?				
		(a	1)	Cat-6	(b)	Cat-7		
	,	(0	:)	Cat-8	(d)	Cat-9		
	(ii)		What is maximum control time for a fire in practical critical area of an aircraft?					
		(á	a)	1 minute	(b)	2.3 minutes		
		(6	2)	2.7 minutes	(d)	3.1 minutes		

(iii)	What does strength - 3 in R.T. transmission indicate ?						
	(a)	Unreadable					
	lty						
	(c)	intermittent	nittent				
	(d)	Loud and clea	ır				
(iv) What is the name of fixed surface ir unit of aircraft used for horizontal stab							
	(a)	Elevator	(b)	Tail plane			
	(c)	Rudder	(d)	Tail fin			
(v)	What is minimum application rate for level A foam for aircraft fire?						
	(a)	$2.5L/m/m^2$	(b)	5.5L/m/m <sup>2</sup>			
	(c)	8.2L/m/m <sup>2</sup>	(d)	$10L/m/m^2$			
(vi)	The quality of good foam will solely depend on which factor?						
	(a)	Induction ratio	)				

(b)

(c)

(d)

Expansion ratio

Drainage time

All three

(vii)		ch Dry chem						
	(b) Sodium bi-carbonate							
	٠,	(c) Urea-Potassium carbonate						
	(a)	Mono-ammon	ium Pn	ospnate				
(viii)	AVO	GAS falls und	der w	hich class of				
	petroleum as per petroleum Act?							
	(a)	Class A	(b)	Class B				
	(c)	Class C	(d)	None				
(ix)	Which part of aircraft containing MMMF							
` '	are more risky for fire man?							
	(a)	_						
	٠,	Tail plane	` '					
(x)								
	in an air - crash situation ?							
	(a)	After receiving	g messa	ige				
	(b)	After response	e					
	(c)	After position	ing at c	rash site				
	(d)	After fire figh	ting					
(B)	Fill in the blanks: 2x1							
	(a)	Liquid Oxyger	ı will ex	pand				
	` ,	times when co	onverte	d to gas.				
	(b)			ueling, the fuel				
	\- <i>\</i>	_		to aircraft				
		before fuel pi						

	(c)	The steady speech rate while using.	
		R. T. should be not more than	
		word per minute.	
	(d)	Integrated fuel tanks are provided in	
		the of aircraft.	
	(e)	Water required for Level A foam is	
		times the water required	
		for level B foam.	
	(f)	Heat required to raise the temperature	
		of any substance by <b>One degree C.</b> is	
		known as	
	(g)	Air crash beyond 4 kilo meters from	
		threshold are considered as	
	(h)	The speed of exhaust gases from a	
		running jet engine at a distance of 45	
		meters in the rear may be in excess of	
		КМРН.	
	(i)	Passenger oxygen mask will be	
		deployed automatically in case of	
	(j)	Under truck nozzles are provided in	
	<b>0</b> /	ACFT for	
2.		in - charge of the Airport Fire Station	15
		e operational actions considered	
		te for dealing with fire involving the	
	wheel of a	large aircraft on landing.	
		OR	

At the time of landing, as a result of malfunctioning of the undercarriage a 'Boeing 747' met with an accident, resulting in spillage of fuel which subsequently ignited. Detail your action as an officer in charge of Airport Fire Station, on receipt of the emergency call from the Air Traffic Control.

- 3. What are the hazard associated within the
  Airport? What are the points to be taken into
  consideration while carrying out Fire Prevention
  inspection of the units available at the Airport?
- 4. What is purpose of Fire drill? What are the principles to be followed while formulating Fire drill for Airport Terminal Building?
- 5. On the basis of occupancy how buildings are classified. What are the general fire protection measures you will take to safe guard Airport Terminal Building from an out break of fire?
- 6. What is the difference between Airfield crash tender and water tender? Name the currently used ACFT at defence airfields in India. Describe the minimum characteristics of same.

MSEE-001 5 P.T.O.

- 7. Give short notes on any three from the following:
  - (a) Maneuvering Area

5x3=15

- (b) Grid Map
- (c) Complementary Agent
- (d) Protective Clothing
- (e) Unlawful interference
- (f) Full emergency.
- 8. What difficulties you may face in fighting Aircraft
  Hanger fin? What are risk associated in dealing
  with such fins?