b.	Write about progressive inspection and continuous inspection carried out in an aircraft.	12	2	4	1
32. a.	Discuss the role of screwdrivers and pliers in aviation industry with a suitable sketch.	12	2	5	1
Ъ.	(OR) List the various NDT methods. Discuss in detail about any two methods with necessary sketches.	12	2	5	1

Reg. No.					
8					

B.Tech. DEGREE EXAMINATION, JUNE 2023 Sixth Semester

18ASO104	T – AIRCRAFT GENERAL ENGINEERING AND MAINTENANCE PRACTICES
	(For the candidates admitted during the academic year 2018-2019 to 2021-2022)
Note:	3 2015 40 2021 2022)

(i)	Part -	A should be answered in	OMR sheet	within first 40 minutes	and OMR she	eet shou	ld b	e hai	ıded
(ii)	over t	o hall invigilator at the end B & Part - C should be an	of 40 th minu	ite.					
Time:	3 hours					Max.	Mar	ks: 1	001
		PART – A (2	$20 \times 1 = 20$	Marks)		Marks	BL	СО	PO
			ALL Quest						
1	. Before	e rigging the aircraft	has to	he done		1	1	- 1	1
		Mooring		Jacking	-	1	•	1	1
		Cowing	, ,	Levelling					
2	. Gale is	s a strong wind with a ve	elocity of	km/hr.		1	1	1	1
		2 to 55		55 to 75					
	(C) 7	5 to 130	` '	130 and above					
3.	. In stan	dard taxi light signals, s	teady red li	ght indicates		* 1	1	1	1
	(A) R	eturn to starting point	(B)	Cleared to taxi					
	(C) S	tep		Exercise extreme ca	aution				0.50
4.	. Ice on the pro	the propeller blades can peller hub.	be treated	with chemicals from	on	1	1	1	1
	(A) S	linger rings	(B)	O-rings					
	(C) D	ischarge nozzle	(D)	Vent					
5.	Haloge on	enated hydrocarbons wh	ich are call	ed as "halons" are v	ery effective	1	1	2	1
	(A) C	lass "A" fire	(B)	Class "B" fire					
	(C) C	lass "C" fire	(D)	Class "D" fire					
6.	Freon deadly	when heated over an oppoisonous	pen flame,	it converts to	which is	1	1	2	1
	(A) S1	alphuric acid	(B)	Hydrochloric acid					
	(C) Pl	nosgene	(D)	Nitric acid		200			
7.		particles will dissolve of chromic acid.	e rapidly v	when dropped into	a 5 percent	1	1	2	1
	(A) Ti	n	(B)	Cadmium					
	(C) Ire	on	(D)	Aluminum					
8.	Thewhich p	are gas-turbine e	the attache	ed generators.	fuel supply,	1	1	2	1
	(A) A		, ,	GPU					
	(C) C	PU .	(D)	LRU					

							•		· 1	wing a thin lover of filled rod to the surface	1	1	5	1	
9.	Blue colour in a risk diamond represen	nts .	1	1	3	1	20			ying a thin layer of filled rod to the surface					
	(A) Flammability	(B) Reactivity						of the		(B) Tinning					
		(D) Special hazard						. ,	olishing	(D) Sterilizing					
	(6) 1100101				_	_		(C) (leaning	(D) Stermizing					
10.	At the point at which the optic nerve	e joins the back of the eye, a	1	1	3	1									
10.	occurs.								D 4 10 III	D (5 4 - 20 Monks)	Marks	BL	со	PO	
	(A) Monocular vision	(B) Blind spot								$B (5 \times 4 = 20 \text{ Marks})$					
		(D) Peripheral vision							Answer	ANY FIVE Questions					
	(C) Visual Spec									C: 1 '11 on oimiono?	4	1	1	1	
11	is common in most work sit	uations, where people are required to	1	1	3	1	21	. What	ire the negative effects of	f ice buildup on an airplane?					
11.	do more than one thing at the same time							~	4 . 4	1 and maintenance of hydroulic test	4	1	2	1	
	(A) Selective attention	(B) Focused attention					22	2. Briefl	explain the operating p	procedure and maintenance of hydraulic test					
		(D) Sustained attention						rig.							
	(C) Divided ditempera									· · · · · · · · · · · · · · · · · · ·	4	1	3	1	
12	are used widely in cold cures	and in the treatment of allergies.	1	1	3	1	2:	3. State	Murphy's law and its sig	nificance in human factors.					
12.	(A) Antibiotics	(B) Analgesics									4	1	4	1	
	(C) Melatonin	(D) Anti-histamines					2	4. Write	short notes on TCDS.		·	_			
											4	1	5	1	
13.	are the sources of informat	ion for guiding aviation mechanics in	1	1	4	1	2	5. Diffe	entiate between solderin	g and brazing.		•		•	
13.	the operation and maintenance of airc	craft and related equipment.									Δ	1	1	1	
	(A) Checklists	(B) Aeronautical publications					2	6. Discu	ss briefly about short-ter	m storage methods of aircraft.	-	-	•	-	
	(C) Aircraft logs	(D) TCDS									4	1	5	1	
	()						2	7. How	s operating data of aircra	aft helpful in troubleshooting process?	-	•	J	•	
1.4	were established by law	to provide for the safe and orderly	1	1	4	1					Marks	RY.	co	·PΩ	
14	conduct of flight operations and	to prescribe airmen privileges and								$5 \times 12 = 60 \text{ Marks}$	Hains	DO	CO	10	
	limitations.	i preserves similar i							Answer A	ALL Questions					
	(A) CFR	(B) FCR									12	2	1	1	
	(C) RCF	(D) FAA					28.	a. List	he tie down requireme	nts and discuss the mooring procedure for	12	2	1	•	
	(C) RCI	(2) 1121							ty heavy aircraft.						
1.5	. Airworthiness directives may be div	ided into categories.	1	1	4	1									
13	(A) One	(B) Two								(OR)	12	2	1	1	
	(C) Thee	(D) Four						b. State	the purpose of aircraft	cleaning. Describe the cleaning process in	. 12	2	1	•	
	(C) Thee	(2) 1001						detai							
16	. An aircraft may be flown up to	hours beyond the 100-hour limit if	1	1	4	1					. 12	า	2	1	
10	necessary to fly to a destination whe	ere the inspection is to be conducted.					29.	a. Expl	in the various fire	extinguishing agents used in the aircraft	į 12	2	2	1	
		(B) 10						main	tenance practices.						
	(A) 5 (C) 15	(D) 20													
										(OR)	12	2	2	1	
17	are usually made of eigh	nt-sided tool steel bar stock, carefully	1	1	5	1		b. Wha	is the need for cabin	cooling system in an aircraft? Explain the) 12	_	2		
= 1 /	hardened and tempered.	, , ,						vapo	ur cycle cooling system	in detail.					
	(A) Files	(B) Hacksaw									12	2	3	1	
	(C) Hand snipes	(D) Chisels					30	.a. Wha	t is shop safety? Expl	ain safety around hazardous materials with	1 12	w		-	
	(E) Tiund simples							appr	opriate drawings.						
1 9	3. The zone at the bottom, or base, of t	the weld is called as	1	1	5	1				(2.7)					
1.0	(A) Root	(B) Bead								(OR)	<u>.</u> 12	2	3	3 1	
	(C) Toe	(D) Leg								outable to human factors. Justify the statemen	.1	ے	,	•	
	(0) 100							with	an example.						
1	9. When experience does not suggest	the point at which the troubleshooting	1	1	5	1					12	2	Δ	4 1	
F	should begin, the technician should	consider which technique?					31	.a. Disc	uss in detail about the va	arious components of a checklist.	12	_		-	
	(A) OSHA communications	(B) Troubleshooting with chart								(07)		•			
	(C) Divide and conquer technique									(OR)					

02JF6-18ASO104T

Page 2 of 4

Page 3 of 4

02JF6-18ASO104T