CBCS SCHEME

		21AE301	
USN		Question Paper Version: A	
Fi	ifth Semester B.E./B.Tech. Degree Exami	nation, Dec.2024/Jan.2025	
A TOTAL OF THE PARTY OF THE PAR	Drone Pilot Train		
Time	e: 1 hr.]	[Max. Marks: 50	
	NICEDAL CENTRAL PROPERTY		
	INSTRUCTIONS TO THE	CANDIDATES	
1.	Answer all the fifty questions, each question carri	es one mark.	
2.	Use only Black ball point pen for writing / darke	ning the circles.	
3.	For each question, after selecting your answer, darken the appropriate circle		
	corresponding to the same question number on the OMR sheet.		
4.	Darkening two circles for the same question make	es the answer invalid.	
5.	Damaging/overwriting, using whiteners on	the OMR sheets are strictly	
	prohibited.		
1.	The draft of the Drone rules was proposed in the year		
	a) 2020 b) 2021 c) 2022	d) 2019	
2.	The Drone Rules 2021 are applicable to		
	a) All persons owning or possessing on unmanned aib) All unmanned aircraft system that are registered in		
	c) All unmanned aircraft system that are being opera		
	d) All of these	V.	
3.	RPTO stands for		
		ote Pilot Training Organization Pilot Training Organization	
		Thot Training Organization	
4.	The present Director General of civil Aviation is a) Vikran Dev Dutt b) Sen Gupta c) Arun	Kumar d) Sivarman	
-			
5.	is the online platform hosted by DGCA for var		
	a) Drone sky b) Champions c) Digit	ar sky d) i ukti	
6.	There are the various zones of Airspace	3) All of the co	
	a) Green zone b) Yellow zone c) Red z	zone d) All of these	
7.	The airspace of defined dimension above the land areas of India in the airspace map saf		
	to fly drones to the zone. a) Red b) Yellow c) Green	d) None of these	

it

8.	a) Aeroplane, Rotor		b)	Glider, Sailern, A	
	c) UAV, MAV, UL	AV	d)	Sailern, Balloons	, Gliderin
9.	Following is the class a) Nano UAS	sification of UAS b) Micro UAS	c)	Small UAS	d) All of these
10.	is the Unmann	ed Aircraft system we	ighi	ng less than or equa	l to 250 gms.
	a) Nano	b) Micro		Medium	d) Large
11.	UAS weighing more a) Small	than 150 kgs. b) Medium	a)	Micro	d) Large
	a) Siliali	b) Weditin	C)	WICIO	d) Large
12.		nds to obtain a type co		4	
	a) Form D2	b) Form D1	c)	Form D3	d) Form D4
13.	The safety features to be installed on an Unmanned Aircraft system by persons owning			by persons owning	
	b) Real time tracking	No takeoff' hardware	and	Irmware	
	c) Geo – fencing cap		d)	All of these	
14.	No type certificate is	required for operating	the	ZAII	
	a) Nano UAS	b) Micro UAS		Medium UAS	d) Small UAS
15	Application for Regis	tration or Deregistrati	on o	FILAS	
13.	a) Form D1			Form D3	d) Form D4
16.	Eligibility to obtain a	remote pilot license b	wan	individual	
10.		nd not more than 65 y			¥
		nd not more than 60 y			
	d) None of these	nd not more than 50 y	ears	of age	
	, *				
17.	a) 5 years	oilot license is for a pe b) 10 years		of 15 years	d) 20 years
	X,			*	d) 20 years
18.	Amendment to Drone a) 2022	e rules 2021 was done b) 2023	**********	ne year 2024	d) Not amended
			, ,	2021	d) Not unrended
19.	Major forces acting o a) Weight, Lift, Dra	A	b)	Weight and Lift	
	c) Drag and Thrust	ig, Tillust	d)	Lift and Thrust	
20	and	of the monellar	ار ما	a daaidaa tha amaaa	-t -f1:6 f
20.	a) Speed, Side and			e decides the amour Length, Width and	
	c) Shape, Profile an	_		Profile, length and	
21.	As weight of the dron	e increases, the flight	time		
	a) increases	b) decreases		no change	d) remains same

22.	A drone's weight affect its and a) Power consumption and flight efficiency b) Lift and thrust	7	
	c) Battery capacity and flight timed) Range and endurance		
23.	The spinning of the propellers creates a forwa) Lift b) Drag	vard c)	force known asd) Weight
24.	The UAV get its current position from		4
	a) GPS Receiver	b)	Flight control system
	c) Electronic speed controller	d)	Receiver
25.	A measures the rate of rotation and he	elps	keep the drone balanced.
	a) Remote control b) Flight control	1070	Gyroscope d) GPS
26.	allows the drone to know its heading	an g	d direction in space.
	a) Barometer b) Compass	c)	IMU d) Transmitter
27.	IMU stands for	, /	
21.	a) India Measurement Unit	b)	Inertial Measurement Unit
	c) Inner Measurement Unit	d)	Inforce Measurement Unit
••	100		
28.	LOS stands for a) Line of sight b) Live of sight	c)	Lift of sight d) Length of sight
		4	
29.	A navigation technique known as SLAM sta		
	a) Simultaneous Location and Mappingc) Simultaneous Length and Mapping	THE STATE OF	Simultaneous Lift and Mapping None of these
	c) Simultaneous Ecugin and Wapping	uj	None of these
30.	Almost all UAV structures are made from		
	a) Mild steel	/	Plastic
	c) Carbon fiber composites	d)	Aluminum
31.	VTOL stands for		
	a) Vertical take Off and Landing	b)	Very long take Off and Landing
	c) Vehicle take Off and Landing	d)	None of these
32.	The control of a fixed using UAV is comprise	sed	of three maneuvers
	a) Left, Right and Front		Roll, Pitch and Yaw
	c) Bank, Yaw and Roll	d)	Bank , Anhedral and Dihedral
33.	MALE stands for		
JJ.		b)	Gender Based UAV
	c) Medium Altitude and Length Endurance	,	
34.	Fixed wing UAVs have the following advan	taar	as over other dropes
J 4 ,	a) Excellent stability	-	Power less recovery
	c) Longer flight time	-	All of these

35.	Meteodrones are unmanned serial vehicles t a) Weather conditions c) Meteorological forecasting	b)	record Crop survey Wind conditions
36.	If an operator notices significant signs of dathe drone should be sent for	ıma	ge through a visual or performance check
	a) Predictive maintenance c) Repair	b) d)	Corrective maintenance Overhaul
37.	maintenance detects component failu a) Corrective b) Predictive		in time and reduces flight risks. Regular d) Line
38.	Components of UAS does not consists of a) UAV c) Air strip for landing d) A communication system between UAV		Ground based controller d controller.
39.	Civil Aviation Requirements (CAR) is publ a) Direct General of Civil Aviation c) India Airforce	b)	
40.	Which of the following drone is mostly used a) Multirotor Drones c) Single Rotor Drones	b)	professionals and hobbyists? Fixed Wing Drones Hybrid VTDL
41.	Which of the following is not an application a) Photogrammetry c) Population survey	b)	Drones? Land survey Under water survey
42.	A process by which information is extracted dimensional maps is called as a) Quantity survey b) Photogrammetry		1
43.	Drones used in land survey produces: a) Orthomosaics mapsc) 2d Drawing	2 3 -	Contour lines Area charts
44.	What is the full form of ROV? a) Remotely Ordered Vehicle c) Remotely Operated Vehicle		Randomly Operated Vehicle Range Operated Vehicle
45.	Which one of the following is not a primary a) Electronic speed controller c) Transmitter	b)	mponent of Drone? BLDC Motor Receiver
46.	What is the full form of RF - Id? a) Radio Frequency Identification c) Rare Frequency Identification	b) d)	

47.	Which is the stronges a) Yagi	st one directional anter b) Omnidirectional	nna used in UAV?	d) Satellite
48.	What is abbreviated fa) LiDAR	for Light Detection and b) LDR	d Ranging? c) LDER	d) Ldr
49.	Which materials are a) Lithium	used in flying drone ba b) Potassium	atteries? c) Sulphuric	d) Electrolytic
50.	What is main safety t a) Trash into dustbin c) Left in drone	ips to dispose a drone		st and wrap in paper ling center
		***	**	
	4,44			