

{Time: 3 Hours}

- All questions are compulsory.
- Marks are mentioned on the right side of each question.

Group (A)**(1*20=20)****Q.1 Choose the most suitable answer the following options.**

- i. Which part in auto piloting drones is act like its brain?
- Microcontroller (b) Sensor (c) Receiver (d) Transmitter
- ii. Which type of drone have weight more than 150kg?
- (a) Nano (b) Micro (c) Medium Large
- iii. Which drone has maximum weight upto 250 gm?
- Nano (b) Micro (c) small (d) Medium
- iv. On Which principle drone's operation is depends?
- (a) Ohms Law (b) Kirchhoff Law Newton's Law - 3rd Law (d) Archimedes Law
- v. Elevator in an aircraft gives rise to motion in which axis?
- (a) Roll axis (b) Yaw axis Pitch axis (d) Speed axis
- vi. Which is the strongest one directional antenna used in UAV?
- Yagi Omni directional (c) Disc (d) Satellite
- vii. What generates lift in an aircraft?
- Main wing (b) Battery (c) Motor (d) ESCR
- viii. Who sets new rules and regulation for drones?
- DGCA (b) AAI (c) DRDO (d) CAR
- ix. Upto which height a nano drone can be fly from ground level?
- Upto 50 ft (b) Upto 200ft (c) Upto 400ft (d) Upto 1500ft
- x. What is used to analysis surrounding atmosphere?
- (a) Battery (b) Transmitter Sensor (d) Antenna

Group (C)

Q.7	How do drones navigate?	6
Q.8	What is a drone's range?	6
Q.9	What is the maximum altitude that a drone can reach?	6
Q.10	How do drones avoid collisions with other objects?	6
Q.11	What are some safety concerns associated with drone use?	6

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