

GROUP D – SAMPLE PAPER

INTERNATIONAL AEROSPACE OLYMPIAD 2024

Multiple Choice Questions

Aerospace, Aeronautics, and Astronautics

- 1. What is the primary focus of aeronautics?**
 - a) Study of stars
 - b) Study of aircraft and their design
 - c) Study of the ocean
 - d) Study of plants
- 2. Astronautics deals with the science and technology of:**
 - a) Underwater exploration
 - b) Space travel and exploration
 - c) Mountain climbing
 - d) Desert survival
- 3. True or False: Aerospace engineering includes both aeronautics and astronautics.**
 - a) True
 - b) False

Planets in Our Solar System

- 4. Which planet is known as the "Red Planet"?**
 - a) Earth
 - b) Mars
 - c) Venus
 - d) Jupiter
- 5. True or False: Jupiter is the largest planet in our solar system.**
 - a) True
 - b) False
- 6. Which planet is closest to the Sun?**
 - a) Earth
 - b) Mercury
 - c) Venus
 - d) Mars

Astronaut Terminology and Survival

- 7. The term 'EVA' in astronaut terminology stands for:**
 - a) Extra-Vehicular Activity
 - b) External Vehicle Action
 - c) Emergency Vehicle Access
 - d) Earth Viewing Activity
- 8. True or False: Astronauts wear space suits to protect them from the vacuum of space.**
 - a) True
 - b) False

9. **Which of the following is essential for astronaut survival in space?**

- a) Oxygen supply
- b) Comfortable clothing
- c) Regular exercise
- d) All of the above

Food of Astronauts

10. **How food is usually preserved for astronauts to consume in space?**

- a) Refrigeration
- b) Canning
- c) Freeze-drying
- d) Smoking

11. **True or False: Astronauts can eat fresh fruits and vegetables on the International Space Station.**

- a) True
- b) False

12. **Which of the following is a common type of food consumed by astronauts in space?**

- a) Freeze-dried ice cream
- b) Freshly baked bread
- c) Raw fish
- d) Fresh salad

Life on the International Space Station (ISS)

13. **How do astronauts generate electricity on the ISS?**

- a) Solar panels
- b) Wind turbines
- c) Nuclear reactors
- d) Coal power

14. **True or False: The ISS orbits the Earth approximately every 90 minutes.**

- a) True
- b) False

15. **Where do astronauts sleep on the ISS?**

- a) In a sleeping bag attached to the wall
- b) In a bed
- c) On a couch
- d) In a hammock

ISS Terminology

16. **What does the acronym 'ISS' stand for?**

- a) International Solar Station
- b) International Space Station
- c) Interstellar Space Station
- d) Intergalactic Science Station

17. **True or False: The ISS is a collaborative project involving multiple countries.**

- a) True
- b) False

18. The ISS is primarily used for:

- a) Military operations
- b) Scientific research
- c) Tourism
- d) Commercial trading

Classification of Airplanes

19. Which of the following is a type of aircraft?

- a) Helicopter
- b) Glider
- c) Jet plane
- d) All of the above

20. True or False: Cargo planes are used to transport passengers.

- a) True
- b) False

21. Which type of airplane is designed for supersonic speeds?

- a) Commercial airliner
- b) Fighter jet
- c) Cargo plane
- d) Glider

Airplane Parts and Specifications

22. What is the main body of an airplane called?

- a) Wing
- b) Fuselage
- c) Cockpit
- d) Tail

23. True or False: The wings of an airplane generate lift.

- a) True
- b) False

24. The cockpit of an airplane is where:

- a) Passengers sit
- b) Cargo is stored
- c) Pilots control the plane
- d) Fuel is stored

AAdivya L1 Satellite Manufacturing, Launch, Maintenance, Purpose, and Benefit

25. The primary purpose of the AAdivya L1 satellite is to study:

- a) The Moon
- b) Mars
- c) The Sun
- d) The Earth

26. True or False: The AAdivya L1 satellite will be placed in a geostationary orbit.

- a) True
- b) False

27. Which organization is responsible for the launch of the AAdivya L1 satellite?

- a) NASA
 - b) ESA
 - c) ISRO
 - d) JAXA
28. **The AAditya L1 satellite will primarily help scientists understand:**
- a) Solar radiation and its effects
 - b) Earthquakes
 - c) Ocean currents
 - d) Animal migration
29. **True or False: The maintenance of the AAditya L1 satellite requires astronauts to perform spacewalks.**
- a) True
 - b) False
30. **Which of the following is a benefit of the AAditya L1 satellite?**
- a) Better weather forecasting
 - b) Improved GPS accuracy
 - c) Enhanced communication networks
 - d) All of the above

Answers

1. **b) Study of aircraft and their design**
2. **b) Space travel and exploration**
3. **a) True**
4. **b) Mars**
5. **a) True**
6. **b) Mercury**
7. **a) Extra-Vehicular Activity**
8. **a) True**
9. **d) All of the above**
10. **c) Freeze-drying**
11. **a) True**
12. **a) Freeze-dried ice cream**
13. **a) Solar panels**
14. **a) True**
15. **a) In a sleeping bag attached to the wall**
16. **b) International Space Station**
17. **a) True**
18. **b) Scientific research**
19. **d) All of the above**
20. **b) False**
21. **b) Fighter jet**
22. **b) Fuselage**
23. **a) True**
24. **c) Pilots control the plane**
25. **c) The Sun**
26. **b) False**
27. **c) ISRO**
28. **a) Solar radiation and its effects**
29. **b) False**
30. **d) All of the above**