RAJIV GANDHI ACADEMY FOR AVIATION TECHNOLOGY
THIRUVANANTHAPURAM
(A Government of Kerala Institution)

ANSWER KEY FOR ADMISSION TEST-2026 CONDUCTED ON 16.08.2026

1. Which weather condition is most hazardous to a small aircraft?
   A) Light breeze
   B) Severe thunderstorm
   C) Clear skies
   D) Mist

   Ans: B

2. Which private aerospace company developed the Vikram-1 rocket, India's first privately built orbital launch vehicle?
   A) Skyroot Aerospace
   B) Agnikul Cosmos
   C) Bellatrix Aerospace
   D) Pixxel

   Ans: A

3. Rectifiers are used to convert
   A) Direct current to Alternating current
   B) Alternating current to Direct current
   C) high voltage to low voltage
   D) low voltage to high voltage

   Ans: B

4. Which organisation regulates civil aviation in India?
   A) AAI
   B) DGCA
   C) HAL
   D) ISRO

   Ans: B

5. An observer 1.6 m tall is $20\sqrt{3}$m away from a tower. The angle of elevation from his eye to the top of the tower is 30°. The height of the tower is:
   A) 21.6 m
   B) 23.2 m
   C) 24.72 m
   D) None of these

   Ans: A

6. Which cloud type is most commonly associated with thunderstorms?
   A) Cirrus
   B) Stratus
   C) Cumulonimbus
   D) Altocumulus

   Ans: C

7. Who has been appointed as the new Chairperson of the Central Board of Secondary Education (CBSE) amid the ongoing On-Screen Marking (OSM)controversy?
   A) Varun Bhardwaj
   B) Lokhande Prashant Sitaram
   C) Rahul Singh
   D) Himanshu Gupta — Ans: B

8. An aircraft departs from Bengaluru with a speed of 700 km/hr at 10:30 am. It arrives at its destination Chennai at 11:15 am. At what time will it reach back to Bengaluru if it departs from Chennai 30 mins after it arrived, assuming its speed while returning is 600 km/hr?
   A) 01:03 pm
   B) 12:20 pm
   C) 12:37 pm
   D) 11:45 am — Ans: C

9. The instrument used to measure atmospheric pressure is:
   A) Thermometer
   B) Hygrometer
   C) Barometer
   D) Anemometer — Ans: C

10. What is altitude in aviation measured in?
   A) Feet
   B) Kilometres
   C) Meters
   D) Miles — Ans: A

11. Surface area of a cuboid of dimensions 3cm, 4cm and 5cm is:
   A) $60\ cm^2$
   B) $12\ cm^2$
   C) $47\ cm^2$
   D) $94\ cm^2$ — Ans: D

12. What is the purpose of the black box on an aircraft?
    A) To store passenger luggage
    B) To record flight data and cockpit conversations
    C) To provide in-flight entertainment
    D) To navigate the aircraft

    Ans: B

13. Which Indian scientist is known as the "Missile Man of India"?
    A) Vikram Sarabhai
    B) Homi Bhabha
    C) A. P. J. Abdul Kalam
    D) Satish Dhawan

    Ans: C

14. Three capacitors 2 μF, 3 μF and 6 μF are joined in series with each other. Given the formula

$$\frac{1}{C_{equivalent}} = \frac{1}{C_1} + \frac{1}{C_2} + \frac{1}{C_3}$$

The equivalent capacitance is:

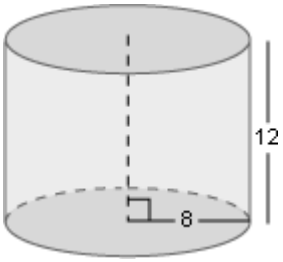
    A) 1/2 μF
    B) 1 μF
    C) 2 μF
    D) 11 Mf

    Ans: B

15. Which organization sets international aviation safety standards and regulations?
    A) IATA
    B) FAA
    C) DGCA
    D) ICAO

    Ans: D

16. What is the surface area of the closed cylinder?



A) 96
B) 1005
C) 2471
D) 804 Ans: B

17. ATC Stands for?
A) Air agency control traffic unit
B) Airway traffic control unit
C) Air traffic control
D) None of these Ans: C

18. On a cold day when room temperature is 15 degree C, the metallic cap of a pen becomes much colder than its plastic body, though both are at the same temperature of 15 degree C, because
A) metals have higher thermal capacity than plastics
B) plastics have a lower density than metals
C) metals are good conductor of heat
D) plastics have a higher thermal conductivity than metals Ans: C

19. Who was the Prime Minister of India when the 42nd Amendment Bill bringing in the changes in the Constitution was passed?
A) Rajiv Gandhi
B) VP. Singh
C) Indira Gandhi
D) Morarji Desai Ans: C

20. Which instrument measures potential difference?
    A) Ammeter
    B) Potentiometer
    C) Voltmeter
    D) None of the above

Ans: C

21. What does AAIB stands for?
    A) Aircraft accident investigation Bureau
    B) Airport accident investigation Bureau
    C) AERO accident investigation Bureau
    D) None of these

Ans: A

22. ILS stands for?
    A) Instrument landing system
    B) Infernal landing system
    C) Indigenous approach landing system
    D) Inbuilt landing system

Ans: A

23. A rectangular park 60 m long and 40 m wide has two concrete crossroads running in the middle of the park and rest of the park has been used as a lawn. If the area of the lawn is 2109 sq. m, then what is the width of the road?
    A) 2.91 m
    B) 3 m
    C) 5.82 m
    D) None of these

Ans: B

24. Which force keeps an aircraft in the air?
    A) Drag
    B) Weight
    C) Lift
    D) Thrust

Ans: C

25. Which part of an aircraft produces most of the lift?
    A) Tail
    B) Engine
    C) Wings
    D) Landing Gear

Ans: C

26. The escape velocity from earth is approximately
   A) 7.9 km/s
   B) 11.2 km/s
   C) 9.8 km/s
   D) 15 km/s — Ans: B

27. The Derivative of a constant is
   A) 1
   B) constant
   C) 0
   D) X — Ans: C

28. Which device converts electrical energy into mechanical energy?
   A) Generator
   B) Electric motor
   C) Transformer
   D) Battery — Ans: B

29. DGCA in India stands for:
   A) Directorate General of Civil Aviation
   B) Department of General Civil Aviation
   C) Director General of Commercial Airlines
   D) Directorate of Government Civil Aircraft — Ans: A

30. Which of the following numbers is not a rational number?
   A) 1/2
   B) 0.25
   C) $\sqrt{2}$
   D) -23 — Ans: C

31. What does the abbreviation VFR mean?
   A) Visual Flight Rules
   B) Vertical Flight Rules
   C) Visual Flying Radar
   D) Verified Flight Route — Ans: A

32. Crosswind is wind blowing:
   A) Along the runway
   B) Across the runway
   C) From behind only
   D) From ahead only — Ans: B

33. Which organization conducts space missions such as Chandrayaan and Aditya-L1?
   A) NASA
   B) ESA
   C) ISRO
   D) JAXA — Ans: C

34. What is the minimum age to obtain a Commercial Pilot Licence (CPL) in India?
   A) 17 years
   B) 18 years
   C) 19 years
   D) 21 years — Ans: B

35. The ultimate responsibility for safety of a flight rests with the
   A) Pilot in command
   B) Air traffic controller
   C) Aircraft manufacturer
   D) Airport manager — Ans: A

36. Which instrument is used to measure atmospheric pressure?
   A) Hygrometer
   B) Barometer
   C) Thermometer
   D) Anemometer — Ans: B

37. The ideal gas equation is
   A) (f=ma)
   B) (pv = nrt)
   C) (e=mc^2)
   D) (p=\rho gh) — Ans: B

38. Airspeed is measured in
   A) Kilometres per hour
   B) Miles per hour
   C) Knots
   D) Meters per second — Ans: C

39. The Rohingyas are a minority of which Country?
   A) Sri Lanka
   B) Myanmar
   C) Morocco
   D) Bangladesh — Ans: B

40. If 25% of 260 equals 6.5% of a, what is a?
   A) 10
   B) 65
   C) 23
   D) 1000 — Ans: D

41. What does GPS stand for?
   A) Global positioning system
   B) General pilot service
   C) Ground positing standard
   D) Global pilot system — Ans: A

42. Which time standard is used in aviation worldwide?
   A) IST
   B) GMT
   C) UTC
   D) Local Time — Ans: C

43. A person crosses a 600 m long street in 5 minutes. What is his speed in km per hour?
   A) 3.6
   B) 7.2
   C) 8.4
   D) 10 — Ans: B

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44. Which field did Amartya Sen win the Nobel Prize in the year 1998?
A) Physics
B) Literature
C) Economics
D) Peace
Ans: C

45. "MAY DAY "is used to indicate
A) Routine Communication
B) Urgency
C) Distress (Grave & imminent danger)
D) Weather information
Ans: C

46. Which atmospheric layer is where most aircraft fly?
A) Troposphere
B) Stratosphere
C) Mesosphere
D) Thermosphere
Ans: A

47. Which Indian-origin NASA astronaut launched his first mission to the International Space Station (ISS) in July 2026?
A) Raja Chari
B) Rakesh Sharma
C) Anil Menon
D) Shubhanshu Shukla
Ans: C

48. The magnetic field (flux density) in SI Units is measured in
A) Tesla
B) Weber
C) Henry
D) Gauss
Ans: A

49. Two angles of a triangle measure 15° and 85°. What is the measure for the third angle?
A) 50°
B) 55°
C) 60°
D) 80°
Ans: D

50. An aeroplane covers a certain distance at a speed of 240 kmph in 5 hours. To cover the same distance in 1 and 2/3 hours, it must travel at a speed of:

A) 300 kmph
B) 360 kmph
C) 600 kmph
D) 720 kmph

Ans: D