

Simulazione di Esame

IFR Communications - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

01. Can the length of a stopway be added to the runway length to determine the takeoff distance available?

- a) Yes, but the stopway must be able to carry the weight of the aeroplane
- b) No, unless its centreline is on the extended centreline of the runway
- c) Yes, but the stopway must have the same width as the runway
- d) No

02. Under which of the following circumstances may you expect a solid reception of the TOWER frequency 118.2 MHz:

- a) Aircraft at high level in the vicinity of the ground station
- b) Aircraft at low level, in the vicinity of the ground station, in the radio shadow zone of a hill
- c) Aircraft at low level, far away from the ground station, in the radio shadow zone of a hill
- d) Aircraft at low level but far away from the ground station

03. Assuming the usual direction of movement, where will this polar frontal wave have moved to (after a certain time)?

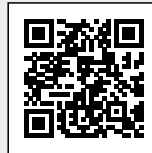
- a) Position 3
- b) Position 4
- c) Position 2
- d) Position 1

04. The diagram representing a left turn with insufficient rudder is:

- a) 2
- b) 1
- c) 3
- d) 4

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05. 1. Psychosomatic means that a physiological problem is followed by psychological stress. 2. Psychosomatic complaints hardly occur in professional aviation because of the strict selection for this particular profession .

- a) 1 and 2 are both not correct
- b) 1 is not correct 2 is correct
- c) 1 is correct 2 is not correct
- d) 1 and 2 are both correct

06. What does 'Friction coefficient 20' in a runway report mean:

- a) Braking action poor
- b) Braking action unreliable
- c) Braking action good
- d) Braking action medium

07. An increase in atmospheric pressure has, among other things, the following consequences on take-off performance:

- a) An increase in take-off distance and degraded initial climb performance
- b) An increased take-off distance and improved initial climb performance
- c) A reduced take-off distance and improved initial climb performance
- d) A reduced take-off distance and degraded initial climb performance

08. Among the following, select the ATC unit in charge of controlling the traffic:

- a) AFIS
- b) ATIS
- c) AIS
- d) Departure

09. A line drawn on a chart which joins all points where the value of magnetic variation is zero is called an:

- a) Isogonal
- b) Aclinic line
- c) Isotach
- d) Agonic line

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10. Given: true course (TC) 017 W/V 340/30TAS 420 kt Find: wind correction angle (WCA) and ground speed (GS)

- a) WCA +2° GS 396 kt
- b) WCA -2° GS 426 kt
- c) WCA -2° GS 396 kt
- d) WCA +2° GS 416 kt

11. A CO2 fire extinguisher can be used for:1. a paper fire2. a hydrocarbon fire3. a fabric fire4. an electrical fire5. a wood fireThe combination regrouping all the correct statements is:

- a) 1, 3, 5
- b) 1, 2, 3, 4, 5
- c) 2, 4, 5
- d) 2, 3, 4

12. The maintenance of man's internal equilibrium is called:

- a) Homeostasis
- b) Poikilothermy
- c) Homeothermy
- d) Heterostasis

13. Assume that an aircraft is flying in the northern hemisphere at the 500 hPa pressure surface on a heading of 270 degrees. Which of the following statements is correct?

- a) If in this pressure surface the wind comes from the direction 180 degrees, then true altitude is increasing
- b) If in this pressure surface the wind comes from the direction 360 degrees, then true altitude is increasing
- c) If in this pressure surface the wind comes from the direction 090 degrees, then true altitude is increasing
- d) If in this pressure surface the wind comes from the direction 270 degrees, then true altitude is increasing

14. The expression 'transmitting blind due to receiver failure' implies that no answer is expected. It shall be used by:

- a) An aircraft station doing blind transmissions at a 'non-towered' airfield
- b) A radar controller performing a PAR or SRE final approach
- c) An aircraft station being aware of receiver failure
- d) A ground station broadcasting information to all listening stations

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15. What is the boundary layer between troposphere and stratosphere called?

- a) Tropopause.
- b) Atmosphere.
- c) Stratosphere.
- d) Ionosphere.

16. What is the difference between radiation fog and advection fog ?

- a) Radiation fog forms due to surface cooling at night in a light wind. Advection fog forms when warm humid air flows over a cold surface.
- b) Radiation fog is formed by surface cooling in a calm wind. Advection fog is formed by evaporation over the sea.
- c) Radiation fog forms due to night cooling and advection fog due to daytime cooling.
- d) Radiation fog forms only on the ground, advection fog only on the sea.

17. Without wind, the tip vortices created by an airplane at take-off:

- a) Stagnate on the runway.
- b) Separate on each side of the runway.
- c) Separate to the left side.
- d) Separate to the right side.

18. In mass and balance calculations the 'index' is:

- a) An imaginary vertical plane or line from which all measurements are taken.
- b) A location in the aeroplane identified by a number.
- c) The range of moments the centre of gravity (cg) can have without making the aeroplane unsafe to fly.
- d) Is a figure without unit of measurement which represents a moment.

19. Alcohol, even when taken in minor quantities

- a) Can make the brain cells to be more susceptible to hypoxia
- b) May improve the mental functions, so that the symptoms of hypoxia are much better to be identified
- c) Will have no effect at all
- d) Will stimulate the brain, making the pilot resistant to hypoxia

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20. Which of the figures depicts an Electronic Flight Instrument System (EFIS) display in Expanded (EXP) VOR/ILS mode with an ILS frequency selected?

- a) Figure 2
- b) Figure 3
- c) Figure 1
- d) 2, 3 and 4 only

21. Basic Empty Mass is:

- a) Dry Operating Mass minus fuel load.
- b) Dry Operating Mass minus traffic load.
- c) A component of Dry Operating Mass.
- d) The actual take-off mass minus traffic load.

22. An increase in the amount of carbon dioxide in the blood leads to:

- a) A reduction of red blood cells
- b) A decrease of acidity in the blood
- c) An improving resistance to hypoxia
- d) An increased respiratory rate

23. You have been calling a station without getting an answer. How long time it is recommended to wait at least before making a second call?

- a) Wait until the station calls you.
- b) 10 sec.
- c) 3 sec.
- d) 30 sec.

24. What name is given to the jet stream lying over North Africa (B) ?

- a) Equatorial jet stream
- b) Sub-tropical jet stream
- c) Arctic jet stream
- d) Polar front jet stream

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25. When, in flight, the needle of a needle-and-ball indicator is on the left and the ball on the right, the aircraft is:

- a) Turning left with not enough bank
- b) Turning right with too much bank
- c) Turning right with not enough bank
- d) Turning left with too much bank

26. What does the word 'acknowledge' mean?

- a) Pass me the following information
- b) Repeat all of this message back to me exactly as received
- c) Let me know that you have received and understood this message
- d) Repeat all of your last transmission

27. The climb limited take-off mass can be increased by:

- a) Selecting a lower V2
- b) Selecting a lower V1
- c) Selecting a lower VR
- d) A lower flap setting for take-off and selecting a higher V2

28. To be as accurate as possible, an anemometer must be calibrated according to the following formula:

- a) Bernoulli, taking into account the air compressibility.
- b) Saint-Venant, considering the air as an incompressible fluid.
- c) Saint-Venant, taking into account the air compressibility.
- d) Bernoulli, considering the air as an incompressible fluid.

29. Incapacitation is most dangerous when it is:

- a) Obvious
- b) Sudden
- c) Insidious
- d) Intense

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30. An aeroplane is to depart from an airfield at a take-off mass of 302550 kg. Fuel on board at take-off (including contingency and alternate of 19450 kg) is 121450 kg. The Dry Operating Mass is 161450 kg. The useful load will be

- a) 19650 kg
- b) 141100 kg
- c) 39105 kg
- d) 121450 kg

31. Aircraft flying along the same track may be separated by DME-distances from the same DME and it is confirmed that the aircraft have passed each other. Specify the shortest difference in DME-distance to make it possible for one aircraft to climb or descend

- a) 12 NM
- b) 15 NM
- c) 10 NM
- d) 20 NM

32. The letter 'L' is written in the wake turbulence box of a flight plan form when the maximum certified take-off weight of an aircraft is less than or equal to:

- a) 14 000 kg.
- b) 7 000 kg.
- c) 5 700 kg for aeroplanes and 2 700 kg for helicopters.
- d) 20 000 kg.

33. Which of the following actions shall be taken in case of a controlled flight deviates from the track?

- a) Inform the ATC unit immediately
- b) If VMC, maintain this condition, waiting for the ATC instructions
- c) Adjust the heading of aircraft to regain track as soon as practicable
- d) Notify ATC of the new track immediately and comply with instructions

34. Between mean sea level and a height of 20 km, the lowest temperature in the ICAO Standard Atmosphere (ISA) is:

- a) -273°C
- b) -44.7°C
- c) -56.5°C
- d) -100°C

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35. In straight and level flight, as speed is increased:

- a) The elevator and trim tab do not move.
- b) Both elevator and trim tab are deflected further downwards.
- c) The elevator is deflected further upwards and the trim tab further downwards.
- d) The elevator is deflected further downwards and the trim tab further upwards.

36. What does QDM mean?

- a) Magnetic bearing from the station
- b) Magnetic heading to the station (no wind)
- c) True bearing from the station
- d) True heading to the station (no wind)

37. What is the average height of the jet core within a polar front jet stream?

- a) 40000 FT.
- b) 20000 FT.
- c) 50000 FT.
- d) 30000 FT.

38. Changes in blood-pressure are measured by:

- a) Adrenal glands
- b) Arterioles
- c) Pacemakers
- d) Pressoreceptors

39. When an aeronautical station broadcasts information to more than one station, the call starts with:

- a) 'Message to all aircraft on this frequency'
- b) 'General broadcast'
- c) 'Please listen'
- d) 'All stations'

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40. Given are the following information at take-off

	STATION.....	MASS
(kg)....ARM (cm)....MOMENT (kgcm)		Basic
Empty Condition...12045.....+30.....+361350Crew.....145.....-160.....-23200Freight (
1).....570.....+200.....+114000Freight (
2).....410.....-40.....-16400Fuel.....6045.....-8.....-48360		

Given that the flight time is 2 h and the estimated fuel flow will be 1050 litres per h. The specific density of fuel is 0.79. The 'Freight (2)' will be dropped during flight within the scope of a rescue action. Calculate the CG position at landing.

- a) 25 cm aft of datum
- b) 24.3 cm aft of datum
- c) 23.7 cm aft of datum
- d) 22 cm aft of datum

41. The transfer of an aircraft from one ATC unit to another is done:

- a) By agreement with the receiving unit
- b) Through a central control unit
- c) With the pilot's consent
- d) Automatically at the control zone boundary

42. What is the result of a large take off flap setting compared to a small take off flap setting on required Take-off Distance (TOD) and the field length limited Take-off Mass (TOM)?

- a) Increased TOD required and decreased field length limited TOM
- b) Decreased TOD required and increased field length limited TOM
- c) Decreased TOD required and decreased field length limited TOM
- d) Increased TOD required and increased field length limited TOM

43. Basic RNAV requires a track-keeping accuracy of:

- a) +/- 3NM or better for 90% of the flight time
- b) +/- 5NM or better for 95% of the flight time
- c) +/- 5NM or better throughout the flight
- d) 1090 +/- 0.3 MHz

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44. Associate the correct legend to each of the numbered diagrams:

- a) 1- Cantilever 2- Dual Wheels 3- Half Fork 4- Fork
- b) 1- half fork 2- fork 3- cantilever 4- tandem
- c) 1- half-fork 2- single trace 3- cantilever 4- dual wheels
- d) 1- cantilever 2- fork 3- half fork 4- dual wheels

45. The purpose of the contact breaker is to:

- a) Control the primary circuit of the magneto
- b) Connect the contact breaker and condenser in series with the primary coil
- c) Connect the battery to the magneto
- d) Connect The Secondary Coil To The Distributor

46. Which of the following statements concerning the core of a polar front jet stream is correct ?

- a) It lies in the warm air
- b) Its pressure surfaces are horizontal at the height of the core
- c) It and its surface projection lie in the warm air
- d) It lies in the cold air

47. Assuming the initiating cause is removed, which of these statements about resetting are correct or incorrect? 1) A fuse is not resettable 2) A circuit breaker is not resettable.

- a) 1) Is Correct, 2) Is Correct.
- b) 1) is correct, 2) is incorrect.
- c) 1) is incorrect, 2) is incorrect.
- d) 1) Is Incorrect, 2) Is Correct.

48. The most common sensors interfacing a FMS to compute the aircraft position along the flight plan are: 1- MLS 2- GPS 3- VOR 4- IRSThe combination which regroups all of the correct statements is:

- a) 1, 2.
- b) 1, 2, 4.
- c) 2, 3, 4.
- d) 1, 4.

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49. While inertial platform system is operating on board an aircraft, it is necessary to use a device with the following characteristics, in order to keep the vertical line with a pendulous system:

- a) Without damping and a period of about 84 minutes
- b) Without damping and a period of about 84 seconds
- c) With damping and a period of about 84 minutes.
- d) With damping and a period of 84 seconds

50. The Basic Empty Mass is 4960 kg, the Dry Operating Mass is 5220 kg and the Zero Fuel Mass is 6040 kg. If the take-off mass is 7630 kg the useful load is

- a) 1590 kg
- b) 2670 kg
- c) 820 kg
- d) 2410 kg

51. Refer to CAP698 Section 3 - MEP1 Figure 3.1 Normal Procedure Given: OAT -15 °C Pressure Altitude: 4000' RWY 12R Wind: 080/12 Kt Take-off Mass: 4000 lbs Runway Surface: tarred and dry What is the minimum runway length? No stopway or clearway is available.

- a) 1250 ft
- b) 1750 ft
- c) 1950 ft
- d) 1550 ft

52. The BFO selector on an ADF receiver is used to:

- a) Hear the IDENT of some NDB stations radiating a continuous wave signal
- b) Find the loop 'null' position
- c) Hear the IDENT and must always be switched ON
- d) The GNSS can be used to update the FMS position from a drifting IRS.

53. You are on a compass heading of 090° on the 255 radial from a VOR. You set the course 190° on your OBS. The deviation bar will show:

- a) Full scale deflection right with a 'from' indication
- b) Full scale deflection left with a 'to' indication
- c) Full scale deflection left with a 'from' indication
- d) Coastal refraction.

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54. The maximum operating altitude for a certain aeroplane with a pressurised cabin

- a) Is dependent on aerodynamic ceiling.
- b) Is the highest pressure altitude certified for normal operation.
- c) Is only certified for four-engine aeroplanes.
- d) Is dependent on the OAT.

55. A lower airspeed at constant mass and altitude requires:

- a) Less thrust and a lower coefficient of lift
- b) A higher coefficient of lift
- c) More thrust and a lower coefficient of drag
- d) More thrust and a lower coefficient of lift

56. An operator shall not operate an aeroplane unless it is equipped with a cockpit voice recorder which starts to record automatically:

- a) When the parking brake is released until the termination of flight when the parking brake is set.
- b) Prior to the aeroplane moving under its own power until the termination of the flight when the aeroplane is no longer capable of moving under its own power.
- c) Prior to the aeroplane moving under its own power until the termination of flight when the parking brake is set.
- d) When full thrust is applied until the termination of the flight when the aeroplane is no longer capable of moving under its own power.

57. The responsibility for determination of the mass of 'operating items' and 'crew members' included within the Dry Operating Mass lies with

- a) The authority of the state of registration.
- b) The commander.
- c) The person compiling the weighing schedule.
- d) The operator.

58. The decrease in temperature, per 100 metres, in a saturated rising parcel of air at lower level of the atmosphere is approximately

- a) 1°C
- b) 1.5°C
- c) 0.6°C
- d) 0.35°C

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59. When, in flight, the needle and ball of a needle-and-ball indicator are on the right, the aircraft is:

- a) Turning right with not enough bank
- b) Turning right with too much bank
- c) Turning left with not enough bank
- d) Turning left with too much bank

60. If a pilot has to perform two tasks requiring the allocation of cognitive resources:

- a) The only way of not seeing performance tail off is to switch to knowledge-based mode for the two tasks
- b) A person reaches his limits as from simultaneous tasks, and performance will then tail off
- c) The only way of not seeing performance tail off is to switch to rules-based mode for the two tasks
- d) The sharing of resources causes performance on each task to be reduced

61. Which aeronautical chart symbol indicates an aeronautical ground light?

- a) 16
- b) 14
- c) 10
- d) 15

62. When the term 'CAVOK' is used in an aviation routine weather report (METAR), the values of visibility and clouds are:

- a) Visibility 10 km or more, no clouds below 5000 feet/GND
- b) Visibility more than 5000 m, no clouds below 1500 m/GND
- c) Visibility more than 8 km, no clouds below 3000 feet/GND
- d) Visibility 10 km or more, no clouds below 1500 feet/GND

63. What is the correct way to transmit and read back frequency 120.375 MHz (VHF channel separated by 25 KHz):

- a) One two zero decimal three seven five
- b) One twenty decimal three seven
- c) One two zero three seven
- d) One two zero decimal three seven

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64. What does the term 'aeronautical station' mean?

- a) A station in the aeronautical mobile service located on land or, in certain instances, on board of a ship or on a platform at sea
- b) An airborne station forming part of the aeronautical fixed telecommunication network (AFTN)
- c) A station in the aeronautical telecommunication service located on land or on board of an aircraft to exchange radiotelephony communications
- d) Any station established to exchange radiotelephony communications

65. When drugs against sleep disorders and/or nervousity have been taken and the pilot intends to fly, attention has to be paid to

- a) The effect they have on hearing
- b) The effect they have on reaction time and perceptual awareness
- c) Schedule only those pilots, who show no reactions to these medications
- d) The fact that there is no difference in the quality of sleep produced under the influence of those drugs compared to normal drug-free sleep

66. According to JAR-FCL, the privileges of the holder of an unrestricted FI(A) rating are to conduct flight instruction for the issue of a CPL(A):

- a) Provided that the FI(A) has completed at least 500 hours of flight time as a pilot of aeroplanes including at least 200 hours of flight instruction
- b) Without restriction
- c) Provided that the FI(A) has completed 200 hours of flight instruction
- d) Provided that the FI(A) has completed not less than 15 hours on the relevant type in the preceding 12 months.

67. A nautical mile is:

- a) 1609 metres
- b) 1852 metres
- c) 1500 metres
- d) 1012 metres

68. Arrival and departure documentation is acceptable in the form of:

- a) Type-written only.
- b) Hand-written in block capitals and in ink.
- c) Type-written and electronic form only.
- d) Electronic form only.

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69. Which of the following lists are all errors that affect the accuracy and reliability of the Satellite-Assisted Navigation system (GNSS/GPS)?

- a) Satellite mutual interference
- b) Satellite ephemeris
- c) Atmospheric propagation
- d) Global Positioning System (GPS)

70. What will be the influence on the aeroplane performance if aerodrome pressure altitude is increased?

- a) It will increase the take-off distance available
- b) It will decrease the take-off distance
- c) It will decrease the take-off run
- d) It will increase the take-off distance

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Schema Risposte

Confronta le risposte fornite con il seguente schema e segna il tuo punteggio!

01: D	02: A	03: A	04: D
05: A	06: A	07: C	08: D
09: D	10: C	11: B	12: A
13: B	14: C	15: A	16: A
17: B	18: D	19: A	20: C
21: C	22: D	23: B	24: B
25: A	26: C	27: D	28: C
29: C	30: B	31: C	32: B
33: C	34: C	35: D	36: B
37: D	38: D	39: D	40: B
41: A	42: B	43: B	44: D
45: A	46: D	47: B	48: C
49: C	50: D	51: C	52: A
53: C	54: B	55: B	56: B
57: D	58: C	59: B	60: D
61: D	62: A	63: A	64: A
65: B	66: A	67: B	68: B
69: C	70: D		