

Exam simulation

ATPL - Airline Transport Pilot license - IFR Communications



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STUDENT NAME:

DATE AND TIME:

01. A braking action of 0.25 and below reported on a SNOWTAM is:

- a) Unreliable
- b) Medium
- c) Poor
- d) Good

02. The power required for field excitation of the main rotor in modern constant-frequency alternators is directly supplied by:

- a) An Excitation Alternator With A Permanent Magnet Generator.
- b) The voltage regulator.
- c) An excitation alternator with three-phase generator and revolving diodes.
- d) A Direct Current Generator (exciter Dynamo).

03. An airspeed indicator displays:

- a) EAS.
- b) IAS.
- c) TAS.
- d) CAS.

04. What phrase shall be used when asking for the readability of a transmission?

- a) Read back
- b) Report readability
- c) How do you read?
- d) Read you loud and clear

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05. Which of the following statements concerning the variation in wind speed between summer and winter on the North Atlantic between FL 300 and FL 400 is most correct?

- a) The average westerly component is greater in the winter than in the summer. The latitude of the axis of greatest seasonal wind speed is further south in winter than in summer
- b) The average westerly component is greater in the summer than in the winter. The latitude of the axis of greatest wind speed is also further north in summer than in winter
- c) The average westerly component remains the same but the altitude of greatest wind speed reduces in winter
- d) The average westerly component remains the same but the axis of greatest speeds moves south in winter

06. An aircraft encountering radio communication failure on an IFR flight in VMC is assumed to:

- a) Leave controlled airspace and continue the flight within uncontrolled airspace
- b) Continue to fly in VMC, land at the nearest suitable aerodrome, report its arrival
- c) Continue the flight to destination aerodrome in any case
- d) Squawk IDENT and proceed to the alternate aerodrome

07. A unit that converts electrical DC into AC is:

- a) An inverter.
- b) A transformer rectifier unit.
- c) An AC generator.
- d) A Thermistor.

08. The altimeter of your aircraft indicates 15000 ft with a subscale-setting of 1013,25 mb. OAT is -21°C. The pressure altitude of the aircraft is:

- a) 15360 ft.
- b) 14640 ft.
- c) The pressure altitude of the aircraft is: 15360 ft. 14640 ft. 572 hPa.
- d) 15000 ft.

09. Which of the following illusions are brought about by conflicts between the visual system and the vestibular system ?-1: Illusions concerning the attitude of the aircraft-2: Autokinetic illusion (fixed point viewed as moving)-3: Illusions when estimating the size and distance of objects-4: Illusions of rotation

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

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10. Which speed provides maximum obstacle clearance during climb?

- a) $V_2 + 10 \text{ KT}$
- b) The speed for which the ratio between rate of climb and forward speed is maximum
- c) V_2
- d) The speed for maximum rate of climb

11. The stopway is an area which allows an increase only in the:

- a) Accelerate-stop distance available
- b) Landing distance available
- c) Take-off distance available
- d) Take-off run available

12. Where does polar continental air originate?

- a) Areas of arctic water.
- b) The region of the Baltic sea.
- c) The region of Greenland.
- d) Siberian landmass.

13. The frequency designated for VHF air to air communications when out of range of VHF ground stations in NAT region is:

- a) 243 MHz
- b) 121.5 MHz
- c) 118.5 MHz
- d) 123.45 MHz

14. When you are intercepting a distress signal and/or message, as a pilot-in-command of an aircraft you shall:

- a) - record the position of the transmission
- b) - proceed according to the flight plan
- c) - complete the SAR report form at the next airport, indicating where you can be reached in order to supply further information.
- d) - record the position of the craft in distress

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15. Except otherwise established by the appropriate ATS authority a Surveillance Radar Approach (SRA) shall be terminated at a distance from the touchdown of:

- a) 4 NM.
- b) 2 NM.
- c) 3 NM.
- d) 5 NM.

16. What seems to be the main role of Orthodox sleep?

- a) It essentially allows for physical recovery
- b) Its main role is associated with activities of memory activities and restoration of attention capabilities
- c) It includes physical and mental recuperation associate with fatigue
- d) Via physical recovery, it is characterised by an alternation of dream phases and paradoxical phases

17. When severe mountain waves are present, where would the area of most severe turbulence be located?

- a) Just above the cap cloud
- b) On the windward side of the mountain range
- c) In the rotor zone
- d) Just below the tropopause

18. A twin-spool engine with a bypass mass flow of 250 kg/s and a HP compressor mass flow of 250 kg/s has a bypass ratio of:

- a) 2
- c) 0.5
- d) 1

19. Which data can be extracted from the Buffet Onset Boundary Chart?

- a) The value of the critical Mach number at various masses and altitudes
- b) The value of maximum operating Mach number (MMO) at various masses and power settings
- c) The value of the Mach number at which low speed and shockstall occur at various masses and altitudes
- d) The values of the Mach number at which low speed and Mach buffet occur at various masses and altitudes

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20. What is the Q-code for 'magnetic bearing from the station'?

- a) QTE
- b) QDM
- c) QDR
- d) QFE

21. An air mass is stable when

- a) Temperature in a given area drops off very rapidly with height
- b) Lifted air returns to its original level
- c) The lapse rate is 1°C per 100 m
- d) Pressure is constant

22. When descending at a constant Mach number:

- a) The difference between surrounding conditions and ISA must be known to deduce the CAS variation.
- b) CAS decreases.
- c) CAS increases.
- d) CAS remains constant.

23. When an airline crew member, in the exercise of her/his duties, travels to another Contracting State as a passenger in order to join an aircraft, she/he must carry for identification purposes:

- a) A CM
- b) A valid flight crew license.
- c) A valid flight crew license. a CMC together with a valid passport and visa if required.
- d) A temporary admission certificate issued by ICAO.

24. The correct drag formula is:

- a) $D = C_D \frac{1}{2} \rho V S$
- b) $D = C_D 2 \rho V^2 S$
- c) $D = C_D \frac{1}{2} \frac{1}{\rho} V^2 S$
- d) $D = C_D \frac{1}{2} \rho V^2 S$

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25. According to PART-CAT, for turbo-prop aeroplanes, the required runway length at a destination airport is:

- a) Less than that required at an alternate airport.
- b) More than that required at an alternate airport.
- c) The same as that required at an alternate airport.
- d) 60% greater than that required at an alternate airport

26. Approach Procedures - Visual Flight Manoeuvre - Circling A circling approach is:

- a) A visual manoeuvre to be conducted only in IM
- b) A visual flight manoeuvre keeping the runway environment in sight while at MDA/H.
- c) A visual flight manoeuvre keeping the runway environment in sight while at MDA/H. A visual flight manoeuvre that may be carried out as long as visual ground contact can be maintained.
- d) A visual flight manoeuvre to be performed when radar vectoring is available.

27. An autopilot system:

- a) Must provide automatic take off functions.
- b) Must provide at least aircraft guidance functions.
- c) May provide automatic take off functions.
- d) Must provide at least aircraft stabilisation functions.

28. Changing of flight rules from IFR to VFR is possible

- a) If instructed by ATC so long as VMC is forecasted during the next 60 minutes
- b) If instructed by ATC so long as VMC is forecasted during the next 30 minutes
- c) Only when leaving controlled airspace
- d) If the commander so requests

29. Which of the following statements concerning the variable, or directional, signal of a conventional VOR is correct?

- a) The transmitter changes the frequency of the variable signal by 30 Hz either side of the allocated frequency each time it rotates
- b) The transmitter varies the amplitude of the variable signal by 30 Hz each time it rotates
- c) The receiver adds 30 Hz to the variable signal before combining it with the reference signal
- d) The rotation of the variable signal at a rate of 30 times per second gives it the characteristics of a 30 Hz amplitude modulation

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30. If other factors are unchanged, the fuel mileage (nautical miles per kg) is:

- a) Independent from the centre of gravity position
- b) Lower with an aft centre of gravity position
- c) Lower with a forward centre of gravity position
- d) Higher with a forward centre of gravity position

31. In the vicinity of SHANNON (52° N009°W) the tropopause is at about FL

- a) 360
- b) 270
- c) 300
- d) 350[see Annex]

32. What does not impair the function of the photosensitive cells?

- a) High speed
- b) Toxic influence (alcohol, nicotine, medication)
- c) Acceleration
- d) Oxygen deficiency

33. The maximum certificated take - off mass is:

- a) A take - off limiting mass which is governed by the gradient of climb after reaching V2 .
- b) A take - off limiting mass which is affected by the aerodrome altitude and temperature.
- c) Limited by the runway take off distance available. It is tabulated in the Flight Manual.
- d) A structural limit which may not be exceeded for any take - off.

34. The Chinook is a

- a) Warm and dry wind that forms as air descends on the leeward side of the Rocky Mountains
- b) Warm anabatic wind up the slopes of snowfields or glaciers
- c) Downslope wind that occurs particularly at night as air cools along mountain slopes
- d) Very cold wind with blowing snow

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35. Select the air traffic service in charge of control of local traffic, take-offs and landings at an airport.

- a) Control
- b) Radar
- c) Air Traffic Centre
- d) Tower

36. A Lambert's conical conformal chart has standard parallels at 63°N and 41°N. What is the constant of the cone?

- a) 0,707
- b) 0,891
- c) 0,656
- d) 0,788

37. The holder of a pilot licence, when acting as co-pilot of an aircraft required to be operated with a co-pilot, shall be entitled to be credit with not more than:

- a) 40 % of the co-pilot flight time towards, the total flight time required for a higher grade of a pilot licence
- b) 50 % of the co-pilot flight time towards the total flight time required for a higher grade of pilot licence
- c) 60 % of the co-pilot flight time towards, the total flight time required for a higher grade of a pilot licence
- d) 100 hours of flying time required for a higher grade of a pilot licence

38. In a directional gyro, gimbaling errors are due to:

- a) The vertical component of the earth's magnetic field
- b) An apparent weight and an apparent vertical
- c) The aircraft's movement over the earth
- d) A banked attitude

39. What are the three elements of the fuselage structure of a large transport aeroplane?

- a) Skin, Ribs, Formers.
- b) Skin, girders, webs.
- c) Skin, frames, stringers.
- d) Skin, Spars, Ribs.

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40. The main reason for usually mounting the detector unit of a remote indicating compass in the wingtip of an aeroplane is to:

- a) Facilitate easy maintenance of the unit and increase its exposure to the Earth's magnetic field
- b) Place it in a position where there is no electrical wiring to cause deviation errors
- c) Reduce the amount of deviation caused by aircraft magnetism and electrical circuits
- d) Place it where it will not be subjected to electrical or magnetic interference from the aircraft

41. Which of these phrases is used to inform the control tower that a pilot perform a missed approach:

- a) Overshooting
- b) Going around
- c) Pulling up
- d) Will make another approach

42. During a flight to Europe, planned in MNPS (Minimum Navigation Performance Specification) airspace, you expect to cross the 30°W meridian at 11H00 UTC

- a) You will then normally be:
- b) Within the organised daytime flight track system.
- c) Outside of the validity period of the organised track system.
- d) Within the polar track system.

43. The measurement of the turbine temperature or of the EGT is carried out at the:

- a) Intake of the high pressure chamber.
- b) Outlet of the high pressure stage of the turbine.
- c) Inlet of the combustion chamber.
- d) Outlet of the combustion chamber.

44. An aircraft, following a 215° true track at variation 3°W, must fly over a 10 600 ft obstacle with a minimum obstacle clearance of 1 500 ft. Knowing the QNH received from an airport close by, which is almost at sea-level, is 1035 and the temperature is ISA -15°C, the minimum flight level will be:

- a) 140
- b) 150
- c) 130
- d) 120

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45. Refer to the Student Pilot Route Manual - 5 AT (HI) The initial great circle course from position A (80°00'N 170°00'E) to position B (75°00'N 011°E) is 177° (G). The final grid course at position B will be:



- a) 172° (G)
- b) 194° (G)
- c) 353° (G)
- d) 177° (G)

46. The highest risk of bird strikes occurs:

- a) Under 500 m
- b) Between 500 and 1 500 m
- c) Between 500 and 1 000 m
- d) Above 1 000 m

47. An aircraft is on radial 120 with a magnetic heading of 300°, the track selector (OBS) reads:330. The indications on the Course Deviation Indicator (CDI) are 'fly':

- a) Left with 'TO' showing
- b) Left with 'FROM' showing
- c) Right with 'FROM' showing
- d) 180°

48. The (subsonic) static pressure:

- a) Decreases in a flow in a tube when the diameter decreases
- b) Increases in a flow in a tube when the diameter decreases
- c) Is the pressure in a point at which the velocity has become zero
- d) Is the total pressure plus the dynamic pressure

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49. What is the radiotelephony call sign suffix for the aeronautical station indicating clearance delivery?

- a) CLEARANCE
- b) DELIVERY
- c) RADIO
- d) CLEARANCE DELIVERY

50. From your cruising altitude at FL 240, you want to descend to flight level 100. Your transmission to the radar controller is:

- a) Request descent to flight level one-zero-zero
- b) We would like to start descent to flight level one-zero-zero
- c) Request to descend one-hundred
- d) Request flight level one-hundred

51. The Mach number:

- a) Is the ratio between the TAS of the aeroplane and the speed of sound at sea level.
- b) Is the ratio between the IAS of the aeroplane and the local speed of sound.
- c) Is the ratio between the TAS of the aeroplane and the local speed of sound.
- d) Increases at a given TAS, when the temperature rises.

52. An aircraft at FL330 is required to commence descent when 65 NM from a VOR and to cross the VOR at FL100. The mean GS during the descent is 330 kt. What is the minimum rate of descent required?

- a) 1650 FT/MIN
- b) 1950 FT/MIN
- c) 1850 FT/MIN
- d) 1750 FT/MIN

53. Why do tropical revolving storms tend to develop mostly in the western parts of the tropical oceans?

- a) Because there is a maximum of humidity as a result of the trade winds long sea passage
- b) Because the gulf formation of the coastlines triggers a strong rotary circulation
- c) Because there is a maximal temperature difference between land mass and sea
- d) Because they are areas in which there is a strong progressive wind shear with increase of height

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54. The initiation of an automatic go-around can be:

- a) In a range of approach airspeeds.
- b) At 70 kts \pm 5 kts only.
- c) With no limit of approach airspeeds.
- d) At VY \pm 5 kts only.

55. The distance from the datum to the Centre of Gravity of a mass is known as

- a) The moment arm or balance arm.
- b) The index.
- c) The moment.
- d) The force.

56. According to ICAO Doc 8168, a noise abatement departure procedure is NOT to be initiated at less than:

- a) 1 000 ft above aerodrome elevation
- b) 800 ft above aerodrome elevation
- c) 2 000 ft above aerodrome elevation
- d) 1 500 ft above aerodrome elevation

57. The positive manoeuvring limit load factor for a light aeroplane in the utility category in the clean configuration is:

- a) 3.8
- b) 2.5
- c) 6.0
- d) 4.4

58. Define hypoxia and explain why living tissues require oxygen.

- a) Hypoxia is the lack of sufficient oxygen to meet the needs of the body tissues which require oxygen to fight infection or invading bacteria.
- b) Hypoxia is the lack of sufficient oxygen to meet the needs of the body tissues which require oxygen to coagulate the blood in case of infection.
- c) Hypoxia is the lack of sufficient oxygen to meet the needs of the body tissues which require carbon dioxide for metabolism.
- d) Hypoxia is the lack of sufficient oxygen to meet the needs of the body tissues which require oxygen for oxidation of carbohydrates from food to produce energy.

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59. You cross a jet stream in horizontal flight at approximately right angles. While crossing, in spite of a strong wind of 120 kt, you notice the temperature barely changes. Which of the following statements is correct ?

- a) This phenomenon is absolutely normal as you are crossing the jet core.
- b) This phenomenon does not surprise you at all, since normally no large temperature differences are possible at these heights.
- c) Since the result of such readings seems impossible, you will have the instruments tested after landing.
- d) You assume the front associated with the jet stream to be very weak with practically no temperature difference between the two air masses.

60. What is the radiotelephony call sign suffix for the aeronautical station providing radar service (in general)?

- a) RADAR
- b) RADAR-SERVICE
- c) RADAR-CONTROL
- d) CONTROL

61. The CVR (Cockpit Voice Recorder) includes:1. a microphone2. a recorder in compliance with the shock and fire resistance standards3. an independent battery4. a flight data recorder**The combination regrouping all the correct statements is:**

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

62. Please check the following statements:1. A stressor causes activation2. Activation stimulates a person to cope with it

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

63. In straight horizontal steady flight, at speeds below that for minimum drag:

- a) A lower speed requires a higher thrust.
- b) The aeroplane cannot be controlled manually.
- c) A higher speed, but still below that for minimum drag, requires a higher thrust.
- d) The aeroplane can be controlled only in level flight.

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64. Procedures related to communication failure - IFR in VMC Which procedure do you follow after having experienced a two way communication failure during a flight in accordance with IFR in VMC?

- a) Continue the flight at the assigned level and route, carry out level changes as indicated in the filed ATC flight plan, start the approach to the flight plan destination at the planned ET
- b) Continue to fly in VMC, land at the nearest suitable aerodrome, report the arrival by the most expeditious means to the appropriate Air Traffic Control unit.
- c) Continue to fly in VMC and return to the aerodrome of departure.
- d) Maintain the assigned level and route and land at the nearest aerodrome where VMC conditions prevail.

65. The function of the selector valve is to:

- a) Select The System To Which The Hydraulic Pump Should Supply Pressure.
- b) Communicate system pressure to either side of an actuator.
- c) Discharge some hydraulic fluid if the system pressure is too high.
- d) Automatically Activate The Hydraulic System.

66. Which phraseology is to be used to ask the control tower for permission to taxi on a runway in the direction opposite to that in use ?

- a) 'Request backtrack on runway'.
- b) 'Backtrack clearance'.
- c) 'To enter back runway'.
- d) 'Clearance to backtrack'.

67. Which statement applies to hypoxia?

- a) You may become immune to hypoxia when exposed repeatedly to hypoxia
- b) Carbon monoxide increases the tolerance of the brain to oxygen deficiency
- c) It is possible to predict when, how and where hypoxia reaction starts to set in
- d) Sensitivity and reaction to hypoxia varies from person to person

68. 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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69. At a given mass, the reference stall speed of a twin engine turboprop aircraft is 100 KT in the landing configuration. The minimum speed a pilot must maintain in short final is:

- a) 115 KT
- b) 125 KT
- c) 123 KT
- d) 120 KT

70. The ASHTAM provides information on the status of activity of a volcano when a change in its activity is, or is expected to be of operational significance. This information is provided using the volcano level of colour code. When volcanic eruption in progress or volcano dangerous, eruption likely, with ash plume/cloud is reported above FL 250 or is expected to rise above FL 250, the level of alert colour code is

- a) YELLOW
- b) RED
- c) ORANGE
- d) GREEN

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Response Scheme

Compare your answers with the following diagram and mark your score!

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

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Response form

Use this form to mark your answers

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