

Exam simulation

ATPL - Airline Transport Pilot license - Operational Procedures

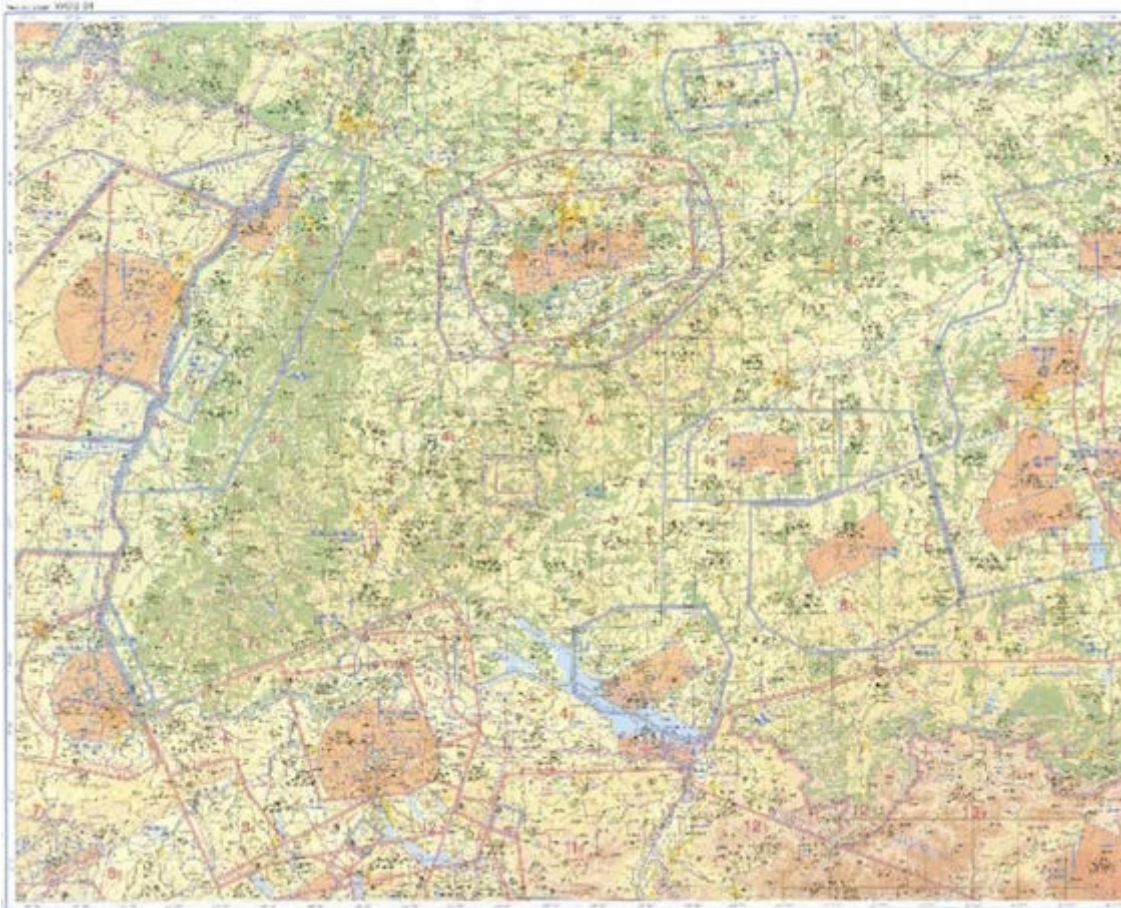


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STUDENT NAME:

DATE AND TIME:

01. Refer to the General Student Pilot Route Manual - VFR Chart ED-4 Give the frequency of ZURICH VOLMET.



- a) 127.20 kHz
- b) 127.20 MHz
- c) 118.10 MHz
- d) 128.525 MHz

02. Passenger A has passed through security and meets passenger B who has not been through security. What should be the subsequent procedure?

- a) Both passengers to pass through security.
- b) Passenger A to pass through security again.
- c) Passenger B to pass through security.
- d) Both passengers and their luggage to pass through security.

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03. In the case of changes to circadian rhythms, the readjustment to a new time zone:

- a) Is most rapid when flying eastbound
- b) Is the same in both westbound and eastbound flights
- c) Is most rapid when flying westbound
- d) Occurs immediately, as circadian rhythms do not change depending on direction of flying

04. At what degree of icing can ICAO's 'No change of course and altitude necessary' recommendation be followed?

- a) Moderate
- b) Severe
- c) Light
- d) Extreme

05. Given: CRN VOR (N5318.1 W00856. 5) DME 18 NM, SHA VOR (N5243.3 W00853. 1) DME 30 NM, Aircraft heading 270°(M), Both DME distances decreasing. What is the aircraft position?

- a) 100 min
- b) 90 min
- c) 50 min
- d) 80 min

06. Select the letter code for HB-FBO.

- a) Hotel Bravo Fox Roma Olka
- b) Hotel Bravo Fox-trot Bravo Oscar
- c) Hotel Bravo Foxy Romeo Oscar
- d) Hector Brasil Fox-trot Romeo Oscar

07. An aircraft is planned to fly from position 'A' to position 'B', distance 320 NM, at an average GS of 180 kt. It departs 'A' at 1200 UTC. After flying 70 NM along track from 'A', the aircraft is 3 MIN ahead of planned time. Using the actual GS experienced, what is the revised ETA at 'B'?

- a) 1401 UTC
- b) 1333 UTC
- c) After flying 70 NM along track from 'A', the aircraft is 3 MIN ahead of planned time. Using the actual GS experienced, what is the revised ETA at 'B'? 1401 UTC 1333 UTC 1340 UTC
- d) 1347 UTC

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08. The QNH is by definition the value of the:

- a) Atmospheric pressure at the location for which it is given, corrected for non-standard temperature.
- b) Altimeter setting so that the altimeter, on the apron of the aerodrome for which it is given, reads zero.
- c) Altimeter setting so that the altimeter, on the apron of the aerodrome for which it is given, reads the elevation.
- d) Atmospheric pressure at the level of the ground overflown by the aircraft.

09. Which of the following geometric satellite constellations provides the most accurate NAVSTAR/GPS position fix?

- a) 3 satellites with an azimuth of 120° from each other and an elevation of 45° above the horizon
- b) 4 satellites with an azimuth of 90° from each other and a low elevation above the horizon
- c) 3 satellites with a low elevation above the horizon and an azimuth of 120° from each other together with a fourth directly overhead
- d) Main control station, the monitoring station and the ground antennas

10. What is the radiotelephony call sign for the aeronautical station indicating approach control radar arrivals?

- a) ...ARRIVAL
- b) ...DIRECTOR
- c) ...RADAR
- d) ...APPROACH

11. During the transmission of numbers containing a decimal point:

- a) The term DECIMAL must always be transmitted.
- b) The term DECIMAL must be spoken only if followed by three digits.
- c) The term DECIMAL can be omitted if no chance of misunderstanding exists.
- d) The term DECIMAL can be omitted with friendly ATS units only.

12. . The mass of an item multiplied by it's distance from the datum is it's

- a) Moment
- b) Force
- c) Moment arm
- d) Centre of gravity

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13. The gust load increases, when the altitude increases.

- a) 1 and 2 are incorrect
- b) 1 and 2 are correct
- c) 1 is incorrect and 2 is correct
- d) 1 is correct and 2 is incorrect

14. At 50 feet AGL during an auto-land, what happens to the glideslope signal?

- a) Is disconnected.
- b) Is used to flare the aircraft.
- c) Is factored for range.
- d) Is used until the nose landing gear touches the ground.

15. What does the abbreviation 'HX' mean?

- a) Sunrise to sunset.
- b) No specific working hours.
- c) Continuous day and night service.
- d) Sunset to sunrise.

16. An aircraft is flying from south to north, above the polar front jet stream, at FL 400 in the southern hemisphere. What change, if any, in temperature will be experienced?

- a) It increases
- b) It stays the same
- c) It decreases
- d) It decreases and then increases

17. According to PART-CAT, which one of the following statements concerning the landing distance for a turbojet aeroplane is correct?

- a) When determining the maximum allowable landing mass at destination, 60% of the available landing runway length should be taken into account.
- b) The landing distance is the distance from 35 ft above the surface of the runway to the full stop.
- c) Malfunctioning of an anti-skid system has no effect on the required runway length.
- d) Reverse thrust is one of the factors always taken into account when determining the landing distance required.

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18. Which of the following Annexes to the Chicago convention contains international standards and recommended practices for air traffic services (ATS)?

- a) Annex 14
- b) Annex 11
- c) Annex 17
- d) Annex 6

19. What does the abbreviation 'H24' mean?

- a) Sunrise to sunset
- b) Continuous day and night service
- c) No specific working hours
- d) Sunset to sunrise

20. During a cross-country flight at FL 50, you observe the following sequence of clouds: Nimbostratus, Altostratus, Cirrostratus, Cirrus. Which of the following are you most likely to encounter ?

- a) Strong, gusty winds.
- b) A strong downdraught.
- c) Decreasing temperatures.
- d) Increasing temperatures.

21. How many hours in advance of EOBT should a ATC flight plan be filed in the case of flights into areas subject to air traffic flow management (ATFM)?

- a) 1:00 hour.
- b) 3:00 hours.
- c) 2 hours.
- d) 0:30 hours.

22. RADAR informs aircraft X-BC: 'X-BC identified'. What does this mean:

- a) X-BC should perform an identification turn
- b) X-BC is not visible on the radar screen
- c) X-BC should operate the IDENT-button
- d) Radar identification has been achieved

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23. The code transmitted by a SSR transponder consists of:

- a) Pulses
- b) Amplitude differences
- c) Frequency differences
- d) It is of no use to civil aviation

24. The Master Minimum Equipment List (M MEL) defines the equipment which can be inoperative when undertaking a flight and the conditions under which this allowance can be accepted. This M MEL is drawn up by:

- a) The operator and approved by the certification authority
- b) The operations manual
- c) The operator from a main list drawn up by the manufacturer
- d) The manufacturer and approved by the certification authority

25. What are the standard masses used for crew?

- a) 88 kgs for flight crew, 76 kgs cabin crew, not including baggage
- b) 85 kgs for flight crew, 75 kgs cabin crew, not including hand baggage
- c) 88 kgs for flight crew, 76 kgs cabin crew, including baggage.
- d) 85 kgs for flight crew, 75 kgs cabin crew, including hand baggage

26. Find the time to the Point of Safe Return (PSR). Given: Maximum useable fuel 15000 kg, Minimum reserve fuel 3500 kg, TAS out 425 kt, Head wind component out 30 kt, TAS return 430 kt, Tailwind component return 20 kt, Average fuel flow 2150 kg/h

- a) 2 h 59 min
- b) 3 h 43 min
- c) 2 h 43 min
- d) 2 h 51 min

27. If the GPWS (Ground Proximity Warning System) activates, and alerts the pilot with an aural warning 'DON'T SINK' (twice), it is because:

- a) The aircraft experiences an unexpected proximity to the terrain, with landing gear retracted.
- b) At too low altitude, the aircraft has an excessive rate of descent.
- c) During take-off or missed approach manoeuvre, the aircraft has started to lose altitude.
- d) The aircraft experiences an unexpected proximity to terrain, without landing-flap selected.

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28. In order to perform a steady level turn at constant speed in an aeroplane, the pilot must:

- a) Increase thrust/power and keep angle of attack unchanged.
- b) Increase thrust/power and decrease angle of attack.
- c) Increase thrust/power and angle of attack.
- d) Increase angle of attack and keep thrust/power unchanged.

29. 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.

30. According to PART-MED, a Class 2 medical certificate for private pilots will be valid for:

- a) 60 months under the age of 50
- b) 60 months under the age of 40
- c) 24 months under the age of 50
- d) 24 months under the age of 40

31. At 0000 Local Mean Time of an observer:

- a) The mean sun is in transit with the observer's meridian.
- b) The apparent sun is in transit with the observer's anti-meridian.
- c) The apparent sun is in transit with the observer's meridian.
- d) The mean sun is in transit with the observer's anti-meridian.

32. Other factors remaining constant, how does increasing altitude affect V_x and V_y in terms of TAS?

- a) Both will remain the same
- b) Both will decrease
- c) Both will increase
- d) V_x will decrease and V_y will increase

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33. A public transport aeroplane with reciprocating engines, the final reserve should be:

- a) Fuel to fly for 2 hours
- b) Fuel to fly for 1 hour at holding speed
- c) Fuel to fly for 45 minutes
- d) Fuel to fly for 30 minutes at holding speed

34. How are well separated CB clouds described on the Significant Weather Chart?

- a) EMBD
- b) ISOL C
- c) FREQ C
- d) OCNL C

35. An aeroplane has the following masses: ESTLWT= 50 000 kg Trip fuel= 4 300 kg Contingency fuel= 215 kg Alternate fuel (final reserve included)= 2 100 kg Taxi= 500 kg Block fuel= 7 115 kg Before departure the captain orders to make the block fuel 9 000 kg. The trip fuel in the operational flight plan should read:

- a) 6 185 kg.
- b) 9 000 kg.
- c) 4 300 kg.
- d) 6 400 kg.

36. An aeroplane has a servo tab controlled elevator. What will happen if the elevator jams during flight?

- a) Pitch control is lost.
- b) The servo-tab now works as a negative trim-tab.
- c) Pitch control sense is reversed.
- d) The pitch control forces double.

37. A ground feature was observed on a relative bearing of 325° and five minutes later on a relative bearing of 280°. The aircraft heading was 165°(M), variation 25°W, drift 10°Right and GS 360 kt. When the relative bearing was 280°, the distance and true bearing of the aircraft from the feature was:

- a) 40 NM and 060°
- b) 30 NM and 240°
- c) 30 NM and 060°
- d) 40 NM and 240°

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38. When turning into a desired radial, FD bars indicate:

- a) 45° angle of bank.
- b) 30° angle of bank.
- c) Correct attitude to intercept radial.
- d) 15° angle of bank.

39. A State shall provide assistance to an aircraft subjected to an act of unlawful seizure. This assistance includes:

- a) Provision of navigation aids, air traffic services, permission to land and refuelling
- b) Provision of navigation aids, air traffic services, permission to land and catering for passengers
- c) Provision of navigation aids, air traffic services and permission to land
- d) Only permission to land

40. The tropopause is lower

- a) South of the equator than north of it
- b) In summer than winter in moderate latitudes
- c) Over the equator than over the South Pole
- d) Over the North Pole than over the equator

41. Which phrase shall be used if you want to say: "Communication is difficult. Please send every word or group of words twice"?

- a) Say again, say again
- b) Repeat twice
- c) Words twice
- d) Message second time

42. Fastair 345 has been instructed 'Standby 118.9 for TOWER'. What does this instruction mean?

- a) Fastair 345 shall establish radio contact with TOWER on frequency 118.9
- b) Fastair 345 shall change to frequency 118.9 on which information is being broadcast
- c) Fastair 345 shall squawk standby and then establish radio contact with TOWER on frequency 118.9
- d) Fastair shall change to frequency 118.9 and listen out, but the TOWER will initiate further communications

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43. If an abortive start (hung start) occurs when starting a gas turbine engine, the correct action is to:

- a) Shut down the engine.
- b) Activate both igniter systems.
- c) Move the thrust lever forward to increase fuel flow.
- d) Select The Other Igniter System.

44. An aircraft squawking 7700 indicates to the ground station that:

- a) The aircraft's transceiver is unserviceable.
- b) The aircraft is in distress.
- c) The aircraft is being hijacked.
- d) There is a sick passenger on board.

45. Given: Distance from departure to destination: 400 NM Endurance: 2,5 h TAS: 115 kt Ground Speed Out: 130 kt Ground Speed Home: 105 kt What is the distance of the PSR from the departure point?

- a) 73 NM
- b) 179 NM
- c) 255 NM
- d) 145 NM

46. The fuselage of an aircraft consists, among others, of stringers whose purpose is to:

- a) Provide Sound And Thermal Isolation
- b) Withstand the shear stresses
- c) Integrate the strains due to pressurization to which the skin is subjected and convert them into a tensile stress
- d) Assist the skin in absorbing the longitudinal traction-compression stresses

47. What, if any, is the abbreviated call sign of Fastair 2345?

- a) Fastair 345
- b) No abbreviated form
- c) 2345
- d) Fastair 45

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48. 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.

49. The longitudinal separation minima based on time between aircraft at same cruising level where navigation aids permit frequent determination of position and speed, is:

- a) 10 minutes.
- b) 3 minutes.
- c) 15 minutes.
- d) 5 minutes.

50. From which of the following would you expect to find facilitation information regarding customs and health formalities ?

- a) NAV/RAD charts
- b) ATCC
- c) AIP
- d) NOTAM

51. Which of the following lists all the parameters that can be determined by a GPS receiver tracking signals from 4 different satellites?

- a) Latitude and longitude
- b) Latitude, longitude, altitude and time
- c) Latitude, longitude and altitude
- d) Radio communication failure

52. The main purpose of lumbar support is to:

- a) Allow the most comfortable position for the spine
- b) Allow the most comfortable position for the spine and shoulder bones
- c) Allow the most comfortable position for the spine and higher neck bones
- d) Produce an even pressure of the discs by allowing the lower spine to curve naturally.

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53. The empty mass of an aircraft is recorded in

- a) The loading manifest. It differs from Dry Operating Mass by the value of the 'useful load'.
- b) The weighing schedule. If changes occur, due to modifications, the aircraft must be re-weighed always.
- c) The loading manifest. It differs from the zero fuel mass by the value of the 'traffic load'.
- d) The weighing schedule and is amended to take account of changes due to modifications of the aircraft.

54. Assuming a five dot display on either side of the ILS localiser cockpit display, what is the angular displacement of the aircraft from the localiser centreline when the CDI is deflected 2 dots to the right?

- a) 2.0° to the right.
- b) 2.0° to the left.
- c) 1.0° to the right.
- d) 1.0° to the left.

55. According to CS 25 the landing reference speed VREF may not be less than:

- a) 1.23 VSRO and must be maintained down to 50' height
- b) 1.2 VMCA
- c) 1.23 VSRO for turbojet powered and 1.3 for turboprop powered aeroplanes
- d) VSRO and must be maintained down to 35' height

56. What are the images of satellites provided daily by the Weather Service used for?

- a) To measure wind currents on the ground
- b) To locate fronts in areas with few observation stations
- c) To locate precipitation zones
- d) To help provide 14-day forecasts

57. If the control stick of an aircraft is moved forward and to the right, the left aileron will move:

- a) Up, And The Elevator Will Move Down.
- b) Up, And The Elevator Will Move Up.
- c) Down, and the elevator will move down.
- d) Down, And The Elevator Will Move Up.

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58. In the vicinity of industrial areas, smoke is most likely to affect surface visibility when

- a) The surface wind is strong and gusty
- b) There is a low level inversion
- c) A rapid moving cold front has just passed the area
- d) Cumulus clouds have developed in the afternoon

59. What does QDR mean?

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

60. What does the instruction: 'Fastair 345 standby 118.9 for TOWER' mean:

- a) Fastair 345 should change frequency to 118.9, on which aerodrome data are being broadcast
- b) Fastair 345 should contact TOWER on 118.9
- c) Fastair 345 should listen on frequency 118.9 on which TOWER will initiate further communications
- d) Fastair 345 should standby on the current frequency

61. A double white cross displayed horizontally in the signal area indicates that:

- a) An area unit for the movement of aircraft.
- b) Need special precautions while approaching for landing.
- c) Special precautions must be observed due to bad state of the taxiways.
- d) The aerodrome is being used by gliders and that glider flights are being performed.

62. An aircraft station fails to establish radio contact with an aeronautical station on the designated frequency. What action is required by the pilot:

- a) Return to the airport of departure
- b) Continue the flight to the destination airport without any communication
- c) Land at the nearest airport without an ATC unit
- d) Attempt to establish contact with the station on an alternative frequency

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63. What is the correct way of transmitting the number 13500 to indicate an altitude or cloud height?

- a) One three five zero zero
- b) One three five hundred
- c) Thirteen thousand five hundred
- d) One three thousand five hundred

64. At about what geographical latitude as average is assumed for the zone of prevailing westerlies?

- a) 50N
- b) 80N
- c) 30N
- d) 10N

65. During a night flight at 10,000 feet you notice that your visual acuity has decreased. In this case you can increase your acuity by:

- a) Scanning sectors of the field of vision
- b) Closing one eye
- c) Dim the instrument lights
- d) Breathing extra oxygen through the oxygen mask.

66. For a particular aeroplane, the structural maximum mass without any fuel on board, other than unusable quantities, is:

- a) A variable value which is governed by the payload carried.
- b) A fixed value which is stated in the Aeroplane Operating Manual.
- c) A fixed value which will limit the amount of fuel carried.
- d) A variable value which may limit the payload carried.

67. Aircraft X-BC has been instructed to contact Stephenville TOWER on frequency 118.7. What is the correct response to indicate that it will follow this instruction ?

- a) Will change to TOWER X-BC
- b) 118.7 X-BC
- c) Stephenville TOWER X-BC
- d) Changing over X-BC

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68. The diameter of the Earth is approximately:

- a) 12 700 km
- b) 40 000 km
- c) 18 500 km
- d) 6 350 km

69. According with DOC 4444 (ICAO), a wake turbulence non-radar separation minima of 3 minutes shall be applied:

- a) To a departing MEDIUM aircraft following a HEAVY aircraft arrival when operating on a runway with a displaced landing threshold
- b) To an arriving LIGHT aircraft following a MEDIUM aircraft departure when operating on a runway with a displaced landing threshold, if the projected flight paths are expected to cross
- c) To LIGHT aircraft taking-off behind a MEDIUM aircraft from an intermediate part of a parallel runway separated by less than 760 m
- d) Between a LIGHT aircraft and a MEDIUM aircraft making a missed approach and the LIGHT aircraft utilizing an opposite-direction runway for take-off

70. In relation to an aircraft, the term ' Basic Empty Mass' includes the mass of the aircraft structure complete with its powerplants, systems, furnishings and other items of equipment considered to be an integral part of the particular aircraft configuration. Its value is

- a) Found in the latest version of the weighing schedule as corrected to allow for modifications.
- b) Printed in the loading manual and includes unusable fuel.
- c) Found in the flight manual and is inclusive of unusable fuel plus fluids contained in closed systems.
- d) Inclusive of an allowance for crew, crew baggage and other operating items. It is entered in the loading manifest.

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Response Scheme

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

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

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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: _____		