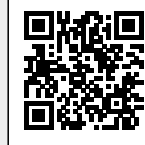


# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

**01. When an aircraft has turned 360 degrees with a constant attitude and bank, the pilot observes the following on a classic artificial horizon:**

- a) Attitude and bank correct
- b) Too much nose-up and bank too high
- c) Too much nose-up and bank correct
- d) Too much nose-up and bank too low

**02. In addition to energy storage, the accumulator of the hydraulic system is used:**

- a) For Pressure Storage.
- b) For fluid storage.
- c) As a pressure relief valve.
- d) For damping pressure surges in the system.

**03. A high pressure area (slack pressure gradient) covers part of the Mediterranean Sea and coastal region during the summer. What surface wind direction is likely at an airport at the coast on a sunny afternoon?**

- a) Land to sea.
- b) Sea to land.
- c) Parallel to the coastline.
- d) Variable.

**04. The commander is required by the authority to present the aircraft documents. He**

- a) Can request a delay of 48 hours.
- b) Shall do so, within a reasonable period of time.
- c) Shall do so if authorised by the operator.
- d) Can refuse to present them.

# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**05. Which of the following statements about the accuracy that can be obtained with the LAAS (local area augmentation system) of the satellite navigation system of the satellite navigation system NAVSTAR/GPS is correct?**

---

- a) A LAAS cannot correct for satellite timing and orbital position error.
- b) The increase in accuracy of position fixes is independent of the aircraft position in relation to the LAAS ground reference station.
- c) A LAAS corrects the position of the aircraft by relaying the information via a geo-stationary satellite.
- d) Pole to pole

**06. On a Lambert conformal conic chart, with two standard parallels, the quoted scale is correct:**

---

- a) Along the parallel of origin
- b) In the area between the standard parallels
- c) Along the prime meridian
- d) Along the two standard parallels

**07. If VOR bearing information is used beyond the published protection range, errors could be caused by:**

---

- a) Sky wave interference from the same transmitter
- b) Noise from precipitation static exceeding the signal strength of the transmitter
- c) Sky wave interference from distant transmitters on the same frequency
- d) Interference from other NDBs, particularly at night

**08. When an aircraft has sustained damage, the aircraft shall be allowed to resume its flight, if**

---

- a) The state of registry, the state of design and the state of manufacture consider that the aircraft is still airworthy
- b) The state of registry considers that the damage sustained is of a nature such that the aircraft is still airworthy
- c) The state of design and the state of manufacture inform the state of registry that the aircraft is still airworthy
- d) The state of manufacture informs the state of registry that the damage sustained is of a nature such that the aircraft is still airworthy

**09. An applicant for a commercial pilot licence shall hold**

---

- a) A current class II medical assessment
- b) A current class I medical assessment
- c) A current class medical assessment as prescribed by the state issuing the licence
- d) A current class III medical assessment

# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**10. The power of a piston engine which will be measured by using a friction brake is:**

---

- a) Brake horse power.
- b) Indicated horse power.
- c) Heat loss power.
- d) Friction Horse Power.

**11. AIP Which part of the AIP contains information relating to existing prohibited, restricted and danger areas?**

---

- a) GEN
- b) AD
- c) ENR
- d) The AIP does not contain this information

**12. Windshield heating of a transport aeroplane is**

---

- a) Not Affecting The Strength Of A Cockpit Windows.
- b) Only used when hot-air demisting is insufficient.
- c) Essential to improve the strength of the cockpit windows.
- d) Used Only At Low Altitudes Where There Is A Risk Of Ice Formation.

**13. What does the word 'cancel' mean?**

---

- a) A change has been made to your last clearance
- b) Wait and I will call you
- c) Annul the previously transmitted clearance
- d) Consider that transmission as not sent

**14. 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

# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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## 15. The convergence of meridians:

---

- a) Is the distance between the meridians in degrees, minutes, and seconds.
- b) Is independent of latitude and longitude.
- c) Is the angular difference between the meridians.
- d) Is greater using rhumb line track than using greater circle.

## 16. Calculate the centre of gravity in % MAC (mean aerodynamic chord) with following data: Distance datum - centre of gravity: 12.53 m Distance datum - leading edge: 9.63 m Length of MAC: 8 m

---

- a) 63.4 % MAC
- b) 36.3 % MAC
- c) 23.1 % MAC
- d) 47.0 % MAC

## 17. Rotation around the normal axis is called:

---

- a) Rolling.
- b) Slipping.
- c) Pitching.
- d) Yawing.

## 18. During take-off the third segment begins:

---

- a) When landing gear is fully retracted
- b) When acceleration to flap retraction speed is started
- c) When flap retraction is completed
- d) When acceleration starts from VLOF to V2

## 19. To comply with the approved airline Operations Manual in a twin-engine aircraft (1 h 45 min flight on 1 engine at an air speed of 420 KT to reach the alternate aerodromes in still air conditions), a pilot has to choose an ATC route, in Minimum Navigation Performance Specification area, while at the same time taking the shortest possible time. Given that the three alternate aerodromes taken into account are SHANNON, SANTA MARIA, ST JOHN TORBAY, the track to be chosen between PARIS and WASHINGTON will be:

---

- a) Track A, time 8 h 3 min
- b) Track D, time 8 h 20 min
- c) Track C, time 8 h 15 min
- d) Track B, time 8 h 10 min [see Annex]

# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**20. In a given configuration the endurance of a piston engine aeroplane only depends on:**

---

- a) Altitude, speed, mass and fuel on board.
- b) Speed, mass and fuel on board.
- c) Speed and mass.
- d) Altitude, speed and mass.

**21. Which of the following is the definition of relative humidity ?**

---

- a) Ratio between the actual mixing ratio and the saturation mixing ratio X 100
- b) Ratio between water vapour (g) and air (kg) X 100
- c) Ratio between water vapour pressure and atmospheric pressure X 100
- d) Ratio between air temperature and dewpoint temperature X 100

**22. In order to produce an alternating voltage of 400 Hz, the number of pairs of poles required in an AC generator running at 6.000 RPM is:**

---

- a) 8
- b) 4
- c) 24
- d) 12

**23. For the medium range transport aeroplane, from the loading manual, determine the maximum total volume of fuel which can be loaded into the main wing tanks. (Fuel density value 0.78)**

---

- a) 11646 litres
- b) 8850 litres
- c) 5674 litres
- d) 11349 litres

**24. Item 9 of the ATC flight plan includes 'NUMBER AND TYPE OF AIRCRAFT'. In this case 'NUMBER' means:**

---

- a) The registration number of the aircraft
- b) The number of aircraft which will separately be using a repetitive flight plan (RPL)
- c) The number of aircraft flying in a group
- d) The ICAO type designator number as set out in ICAO Doc 8643

# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**25. The Basic Empty Mass is 4800 kg, the Dry Operating Mass is 5050 kg and the Zero Fuel Mass is 6210 kg. If the take-off mass is 8010 kg the useful load is:**

---

- a) 3210 kg
- b) 2960 kg
- c) 1160 kg
- d) 1800 kg

**26. Which of these statements about a gust lock system are correct or incorrect? 1) Irreversible flight controls should have a gust lock. 2) Manual flight controls should have a gust lock.**

---

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

**27. An aircraft on an IFR flight in VMC experiences radio communication failure. The aircraft is assumed to:**

---

- a) Return to the aerodrome of departure
- b) Land at the alternate aerodrome
- c) Land at the nearest suitable aerodrome
- d) Land at the destination aerodrome

**28. ICAO Annex 11 defines Area Navigation (RNAV) as a method of navigation which permits aircraft operation on any desired flight path:**

---

- a) Outside the coverage of station-referenced navigation aids provided that it is equipped with a minimum of one serviceable self-contained navigation aid
- b) Within the coverage of station-referenced navigation aids or within the limits of the capability of self-contained aids, or a combination of these
- c) Outside the coverage of station-referenced navigation aids provided that it is equipped with a minimum of two serviceable self-contained navigation aids
- d) Simultaneously transmit weather and mapping beams

# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**29. An aircraft encountering radio communication failure on an IFR flight in IMC has to hold over the designated navigation aid serving the destination aerodrome:**

---

- a) 5 minutes in any case
- b) Under no circumstances
- c) 3 minutes, if an expected approach time is not acknowledged
- d) Until the expected approach time last received and acknowledged

**30. Which one of the displayed cloud forms is representative of altocumulus lenticularis?**

---

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

**31. 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

**32. Dangerous stall characteristics, in large transport aeroplanes that require stick pushers to be installed, include:**

---

- a) Pitch down and yaw
- b) Distinct aerodynamic buffet
- c) Excessive wing drop and deep stall
- d) Pitch down and increase in speed

**33. Given: Runway direction 230°(T), Surface W/V 280°(T)/40 kt. Calculate the effective cross-wind component?**

---

- a) 21 kt
- b) 36 kt
- c) 26 kt
- d) 31 kt

# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**34. The recent experience conditions of a commander assigned to a flight on an aircraft by an operator must not be less than:**

---

- a) 3 take-offs and 3 landings as pilot flying on the same type of aircraft or approved simulator in the preceding 90 days
- b) 3 take-offs and 3 landings on this type of aircraft during the last 6 months
- c) 6 take-offs and 6 landings during the last 6 months
- d) 6 take-offs and 6 landings as pilot flying on the same type of aircraft or approved simulator

**35. In cruise flight, a centre of gravity moving aft will:**

---

- a) Decrease longitudinal static stability
- b) Not change the manoeuvrability
- c) Have no effect on longitudinal static stability
- d) Increase longitudinal static stability

**36. What do you do, when you are affected by 'pilot's vertigo'?1. Establish and maintain an effective instrument cross-check.2. Believe the instruments.3. Ignore illusions.4. Minimize head movements.**

---

- a) 1, 2, 3 and 4 are correct
- b) Only 4 is false
- c) 1 and 2 are correct, 3 and 4 are false
- d) 1, 2 and 3 are correct, 4 is false

**37. A Category I precision approach (CAT I) is an approach which may be carried out with a runway visual range of at least:**

---

- a) 500 m
- b) 800 m
- c) 350 m
- d) 550 m

**38. The minimum equipment list of a public transport aircraft is to be found in the:**

---

- a) OPS 1.
- b) Operations manual.
- c) Flight record.
- d) Flight manual.



# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**39. The distress communication and silence conditions shall be terminated by transmitting a message. Which words shall this message include?**

- a) Distress traffic ended
- b) Disregard distress communication, OUT
- c) MAYDAY traffic ended
- d) Emergency communication finished

**40. 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

**41. Given: Dry operating mass (DOM)= 33510 kg Traffic Load= 7600 kg Final reserve fuel= 983 kg Alternate fuel= 1100 kg Contingency fuel 102 kg The estimated landing mass at alternate should be:**

- a) 42093 kg.
- b) 42195 kg.
- c) 42312 kg.
- d) 42210 kg.

**42. Refer to CAP697 Section 4 - MRJT1 Page 2 Figure 4.1 / 4.2 and Page 41 Figure 4.5.3.2 Given: Estimated take-off mass 57000 kg, Ground distance 150 NM, Temperature ISA -10°C, Cruise at 0.74 Mach Find: Cruise altitude and expected true air speed**

- a) 24000', 445 KT
- b) 25000', 435 KT
- c) 33900', 420 KT
- d) 33500', 430 KT [see Annex]

**43. The operator of an aircraft equipped with 50 seats uses standard masses for passengers and baggage. During the preparation of a scheduled flight a group of passengers present themselves at the check-in desk, it is apparent that even the lightest of these exceeds the value of the declared standard mass.**

- a) The operator may use the standard masses for the load and balance calculation without correction
- b) The operator may use the standard masses for the balance but must correct these for the load calculation
- c) The operator should use the individual masses of the passengers or alter the standard mass
- d) The operator is obliged to use the actual masses of each passenger

# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**44. Which of the following statements concerning the aircraft positions indicated on a triple fit Inertial Navigation System (INS)/ Inertial Reference System (IRS) on the CDU is correct?**

---

- a) 340 kt
- b) 320 kt.
- c) 300 kt
- d) 360 kt.

**45. The purpose of the decision point procedure is:**

---

- a) To reduce the landing weight and thus reduce the structural stress on the aircraft.
- b) To increase the safety of the flight.
- c) To reduce the minimum required fuel and therefore be able to increase the traffic load.
- d) To increase the amount of extra fuel.

**46. The inertial navigation system (INS) indicates: Position: 71° 55.1'N 094°55.3'W Drift: 6°L (left) The route followed in order to return to the VOR station is the meridian of the VOR station used: RESOLUTE BAY (74°43.6'N 094°55.3'W), this VOR has North set on the local geographic meridian. The gyro compass has just been reset to Grid North (chart used: polar stereographic chart, grid parallel to zero meridian, Grid North in the direction of geographic North Pole). The correct representation of the RMI VOR/DME is at this moment: (the distance DME is in the box)**

---

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

**47. Given: TAS = 205 kt, HDG (T) = 180°, W/V = 240/25kt. Calculate the drift and GS?**

---

- a) 7L - 192 kt
- b) 6L - 194 kt
- c) 4L - 195 kt
- d) 3L - 190 kt

**48. The take-off distance available is:**

---

- a) The runway length plus half of the clearway
- b) The runway length minus stopway
- c) The total runway length, without clearway even if this one exists
- d) The length of the take-off run available plus the length of the clearway available

# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**49. With respect to multi-engine piston powered aeroplane, determine the ramp mass (lbs) in the following conditions:** Basic empty mass: 3 210 lbs Basic arm: 88.5 Inches One pilot: 160 lbs Front seat passenger: 200 lbs Centre seat passengers: 290 lbs One passenger rear seat: 110 lbs Baggage in zone 1: 100 lbs Baggage in zone 4: 50 lbs Block fuel: 100 US Gal. Trip fuel: 55 US Gal. Fuel for start up and taxi (included in block fuel): 3 US Gal. Fuel density: 6 lbs/US Gal.

---

- a) 4120
- b) 4390
- c) 4720
- d) 4372

**50. Which of the following radar equipment operate by means of the pulse technique?** 1. Aerodrome Surface Movement Radar 2. Airborne Weather Radar 3. Secondary Surveillance Radar (SSR) 4. Aerodrome Surveillance (approach) Radar

---

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

**51. Trapped intestinal gases can cause severe pain. When is this the case?**

---

- a) At lower altitudes.
- b) Only in pressurized aircraft when flying at higher flight levels.
- c) More frequent when flying above 18 000 FT in a non-pressurized aircraft.
- d) During descent as well as during climb, when the cabin pressure altitude exceeds 2 000 FT

**52. A jet transport aeroplane is in a straight climb at a constant IAS and constant weight. The operational limit that may be exceeded is:**

---

- a) V
- b) VMO.
- d) MMO.

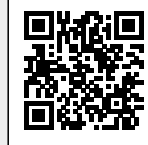
**53. The two standard parallels of a conical Lambert projection are at N10°40'N and N41°20'. The cone constant of this chart is approximatively:**

---

- a) 0.44
- b) 0.18
- c) 0.66
- d) 0.90

# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**54. 'Night Effect' which causes loss of signal and fading, resulting in bearing errors from NDB transmissions, is due to:**

---

- a) Static activity increasing at night particularly in the lower frequency band
- b) Interference from other transmissions and is maximum at dusk when east of the NDB
- c) The effect of the Aurora Borealis
- d) 1.25° above or below the correct glide path.

**55. Distance Measuring Equipment (DME) operates in the:**

---

- a) VHF band and uses the principle of phase comparison
- b) UHF band and uses one frequency
- c) UHF band and uses two frequencies
- d) SHF band and uses frequency modulation techniques

**56. In the ATC flight plan Item 15, a cruising speed of 470 knots will be entered as:**

---

- a) N0470
- b) N470
- c) 0470K
- d) KN470

**57. A leak in the pitot total pressure line of a non-pressurized aircraft to an airspeed indicator would cause it to:**

---

- a) Over-read.
- b) Indication will drop to zero.
- c) Under-read.
- d) Freeze on the value it indicated at the time of failure.

**58. Holding procedures If for any reasons a pilot is unable to conform to the procedures for normal conditions laid down for any particular holding pattern, he should:**

---

- a) Execute a non-standard holding pattern in accordance with the performance of his aeroplane.
- b) Remain within the protected area, but may deviate from the prescribed holding.
- c) Advise ATC as early as possible.
- d) Follow the radio communication failure procedure.

# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**59. . For the purpose of aeroplane mass and balance calculations, the datum point is defined as:**

---

- a) A point near the centre of the aeroplane. It moves longitudinally as masses are added forward and aft of its location.
- b) The point through which the sum of the mass values (of the aeroplane and its contents) is assumed to act vertically.
- c) A variable point, that is dependent on the load distribution for its location, from which all balance arms are measured
- d) A fixed point from which all balance arms are measured. It may be located anywhere on the aeroplane's longitudinal axis or on the extensions to that axis.

**60. Of what use, if any, is a military TACAN station to civil aviation?**

---

- a) It can provide DME distance
- b) It can provide a magnetic bearing
- c) It can provide a DME distance and magnetic bearing
- d) Aircraft transmitter and DME ground station are transmitting on different frequencies

**61. Fastair 345 is instructed to contact Stephenville RADAR on channel 132.010 MHz. How would Fastair 345 advise RADAR that it is not 8.33 KHz equipped?**

---

- a) Negative eight point three three
- b) Negative on 132.008
- c) Negative channel 132.0083
- d) Negative frequency 132.010

**62. 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

**63. The normal rate of breathing when at rest is:**

---

- a) 12 to 20 cycles a minute
- b) 60 to 100 cycles a minute
- c) 32 to 40 cycles a minute
- d) 25 to 30 cycles a minute

# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**64. The dry adiabatic lapse rate has a value of**

---

- a) 2°C/1000FT
- b) 0.65°C/100m
- c) 1°C/100m
- d) 0.5°C/100m

**65. What is the correct way of spelling out FRI-VOR in a radio message?**

---

- a) Foxtrot Romeo Juliet - VOR
- b) Foxtrot Romeo India - VOR
- c) Fox Romeo India - VOR
- d) Fox Romeo Yankee - VOR

**66. On a Direct Mercator, rhumb lines are:**

---

- a) Curves concave to the equator
- b) Straight lines
- c) Curves convex to the equator
- d) Ellipses

**67. Please check the following statements:1. Psychosomatic means that mental and/or emotional stressors can be manifested in organic stress reactions.2. Psychosomatic means that a physical problem is always followed by psychological stress.**

---

- a) 1 is correct, 2 is false
- b) 1 and 2 are both false
- c) 1 is false, 2 is correct
- d) 1 and 2 are both correct

**68. Knowing that:. Dry operating mass: 110000 kg. Basic index: 119.1. Number of passengers: 185 distributed as shown in the annex (75 kg per PAX). Cargo load + luggage: 14000 kg distributed as shown in the annex.. Fuel: 42000 kg (Fuel shift -20)Stages ( 1) to (7) and (1 1) having already been calculated, the centre of gravity in % MAC (Mean Aerodynamic Chord) at take-off is located at:**

---

- a) 26.0 %
- b) 28.0 %
- c) 32.5 %
- d) 33.5 %

# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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**69. What will be the effect on an aeroplane's performance if aerodrome pressure altitude is decreased?**

---

- a) It will decrease the take-off distance required
- b) It will increase the accelerate stop distance
- c) It will increase the take-off ground run
- d) It will increase the take-off distance required

**70. Given: TAS = 95 kt, HDG (T) = 075°, W/V = 310/20kt. Calculate the drift and GS?**

---

- a) 9L - 105 kt
- b) 10L - 104 kt
- c) 8R - 104 kt
- d) 9R - 108 kt

# Simulazione di Esame

General Navigation - ATPL - Airline Transport Pilot license, 70 domande in 70 minuti!



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## Schema Risposte

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

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