

Exam simulation

SPL - Sailplane Pilot License - Navigation



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STUDENT NAME:

DATE AND TIME:

01. Rotation around the vertical axis is called...

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

02. Two engine-driven aircraft are flying on crossing courses at the same altitude. Which one has to divert?

- a) Both have to divert to the left
- b) The lighter one has to climb
- c) The heavier one has to climb
- d) Both have to divert to the right

03. The validity of a medical examination certificate class 2 for a 62 years old pilot is...

- a) 12 Months
- b) 48 Months
- c) 24 Months
- d) 60 Months

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04. What is the distance from Neustadt (EDAN) (53°22'N, 011°37'E) to Uelzen (EDVU) (52°59'N, 10°28'E)?



- a) 46 km
- b) 46 NM
- c) 78 km
- d) 78 nm

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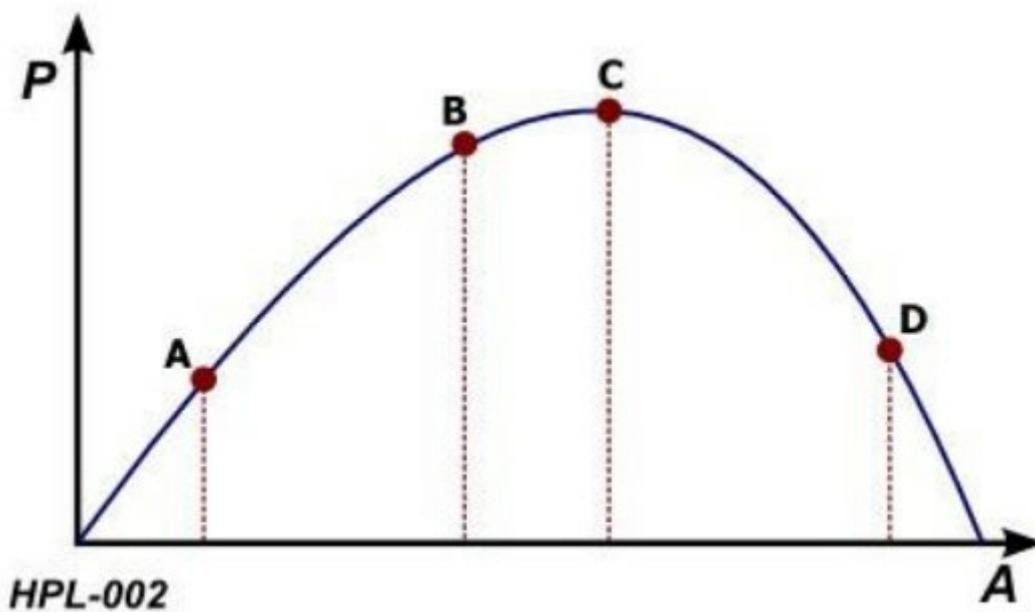


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05. Off-field landing may be prone to accident when...

- a) The approach is conducted using distinct approach segments
- b) The decision is made above minimum safe altitude
- c) The approach is conducted onto a harvested corn field
- d) The decision to land off-field is made too late

06. The ideal level of arousal is at which point in the diagram? See figure (HPL- 002) P = Performance A = Arousal / Stress



- a) Point B
- b) Point C
- c) Point D
- d) Point A

07. What is the call sign of the flight information service?

- a) Flight information
- b) Info
- c) Advice
- d) Information

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08. What is the purpose of the secondary flight controls?

- a) To improve the performance characteristics of an aircraft and relieve the pilot of excessive control forces
- b) To improve the turn characteristics of an aircraft in the low speed regime during approach and landing
- c) To enable the pilot to control the aircraft's movements about its three axes
- d) To constitute a backup system for the primary flight controls

09. What does the term "Red-out" mean?

- a) "Red vision" during negative g-loads
- b) Falsified colour perception during sunrise and sunset
- c) Anaemia caused by an injury
- d) Rash during decompression sickness

10. The balance arm is the horizontal distance between...

- a) The C.G. of a mass and the rear C.G. limit
- b) The front C.G. limit and the datum line
- c) The front C.G. limit and the rear C.G. limit
- d) The C.G. of a mass and the datum line

11. Visual illusions are mostly caused by...

- a) Binocular vision.
- b) Colour blindness.
- c) Rapid eye movements.
- d) Misinterpretation of the brain.

12. Airspeed indicator, altimeter and vertical speed indicator all show incorrect indications at the same time. What error can be the cause?

- a) Blocking of static pressure lines
- b) Leakage in compensation vessel
- c) Blocking of pitot tube
- d) Failure of the electrical system



13. What wind is reported as 225/15?

- a) North-east wind with 15 kt
- b) South-west wind with 15 kt
- c) South-west wind with 15 km/h
- d) North-east wind with 15 km/h

14. What is the call sign of the surface movement control?

- a) Control
- b) Tower
- c) Earth
- d) Ground

15. Clouds in high layers are referred to as...

- a) Cirro-.
- b) Strato-.
- c) Nimbo-.
- d) Alto-.

16. In which situations should a pilot use blind transmissions?

- a) When a pilot has flown into cloud or fog unintentionally and therefore would like to request navigational assistance from a ground unit
- b) When the traffic situation at an airport allows the transmission of information which does not need to be acknowledged by the ground station
- c) When no radio communication can be established with the appropriate aeronautical station, but when evidence exists that transmissions are received at that ground unit
- d) When a transmission containing important navigational or technical information is to be sent to several stations at the same time

17. With regard to global circulation within the atmosphere, where does polar cold air meet subtropical warm air?

- a) At the equator
- b) At the subtropical high pressure belt
- c) At the polar front
- d) At the geographic poles

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18. What does the abbreviation "FIS" stand for?

- a) Flight information service
- b) Flashing information system
- c) Flight information system
- d) Flashing information service

19. In what case is the pilot allowed to abbreviate the call sign of his aircraft?

- a) After passing the first reporting point
- b) If there is little traffic in the traffic circuit
- c) Within controlled airspace
- d) After the ground station has used the abbreviation

20. The trim is used to...

- a) Adapt the control force
- b) Increase adverse yaw
- c) Move the centre of gravity
- d) Lock control elements

21. The term 'True Course' (TC) is defined as...

- a) The direction from an arbitrary point on Earth to the magnetic north pole
- b) The direction from an arbitrary point on Earth to the geographic North Pole
- c) The angle between magnetic north and the course line
- d) The angle between true north and the course line

22. If there is any doubt about ambiguity, a time of 1620 is to be transmitted as...

- a) Sixteen twenty
- b) Two zero
- c) One six two zero
- d) One thousand six hundred two zero

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23. During a stall, the lift...

- a) Decreases and drag increases
- b) Increases and drag increases
- c) Decreases and drag decreases
- d) Increases and drag decreases

24. What is the meaning of "DETRESFA"?

- a) Distress phase
- b) Alerting phase
- c) Uncertainty phase
- d) Rescue phase

25. Given: TC: 179°; WCA: -12°; VAR: 004° E; DEV: +002° What are MH and MC?

- a) MH: 163°. MC: 175°
- b) MH: 167°. MC: 161°
- c) MH: 163°. MC: 161°
- d) MH: 167°. MC: 175°

26. Where can the type of restriction for a restricted airspace be found?

- a) AIC
- b) ICAO chart 1:500000
- c) AIP
- d) NOTAM

27. In straight and level flight with constant performance of the engine, the angle of attack at the wing is...

- a) Smaller than in a descent
- b) Greater than in a climb
- c) Greater than at take-off
- d) Smaller than in a climb



28. The angle between compass north and magnetic north is called...

- a) WCA
- b) Inclination
- c) Deviation
- d) Variation

29. What are the primary and the secondary effects of a rudder input to the left?

- a) Primary: yaw to the right Secondary: roll to the left
- b) Primary: yaw to the left Secondary: roll to the left
- c) Primary: yaw to the right Secondary: roll to the right
- d) Primary: yaw to the left Secondary: roll to the right

30. How are two parallel runways designated?

- a) The left runway gets the suffix "L", the right runway remains unchanged
- b) The left runway gets the suffix "L", the right runway "R"
- c) The left runway remains unchanged, the right runway designator is increased by 1
- d) The left runway gets the suffix "-1", the right runway "-2"

31. What does a cloud coverage of "BKN" mean in a METAR weather report?

- a) 1 to 2 eighths
- b) 5 to 7 eighths
- c) 3 to 4 eighths
- d) 8 eighths

32. What is the function of the white blood cells (leucocytes)?

- a) Immune defense
- b) Blood coagulation
- c) Oxygen transport
- d) Blood sugar regulation

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33. Heavy downdrafts and strong wind shear close to the ground can be expected...

- a) Near the rainfall areas of heavy showers or thunderstorms
- b) During approach to an airfield at the coast with a strong sea breeze
- c) During cold, clear nights with the formation of radiation fog
- d) During warm summer days with high, flatted Cu clouds

34. At which altitude is the atmospheric pressure approximately half the MSL value (1013 hPa)?

- a) 18000 ft
- b) 22000 ft
- c) 10000 ft
- d) 5000 ft

35. On approach, wind shear suddenly decreases the tailwind. Without pilot correction, what is the immediate effect?

- a) The approach path becomes lower and IAS decreases.
- b) The approach path becomes lower and IAS increases.
- c) The approach path becomes higher and IAS increases.
- d) The approach path remains unchanged and only groundspeed changes.

36. Which transponder code indicates a radio failure?

- a) 7500
- b) 7700
- c) 7000
- d) 7600

37. The altimeter's reference scale is set to airfield pressure (QFE). What indication is shown during the flight?

- a) Altitude above MSL
- b) Height above airfield
- c) Airfield elevation
- d) Pressure altitude



38. What has to be expected with ice accretion on wings?

- a) An increased stall speed
- b) A decreased stall speed
- c) Improved slow flight capabilities
- d) Reduced friction drag

39. Which of the following is responsible for the blood coagulation?

- a) Capillaries of the arteries
- b) Red blood cells (erythrocytes)
- c) Blood plates (thrombocytes)
- d) White blood cells (leucocytes)

40. Which transponder code should be set during a radio failure without any request?

- a) 7700
- b) 7600
- c) 7500
- d) 7000

41. In which way may an altimeter subscale which is set to an incorrect QNH lead to an incorrect altimeter reading?

- a) If the subscale is set to a higher than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended
- b) If the subscale is set to a lower than actual pressure, the indication is too low. This may lead to much closer proximity to the ground than intended
- c) If the subscale is set to a higher than actual pressure, the indication is too low. This may lead to much greater heights above the ground than intended
- d) If the subscale is set to a lower than actual pressure, the indication is too high. This may lead to much closer proximity to the ground than intended



42. Which statement is correct with regard to the polar axis of the Earth?

- a) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is perpendicular to the plane of the equator
- b) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is at an angle of 66.5° to the plane of the equator
- c) The polar axis of the Earth crosses the geographic South Pole and the geographic North Pole and is at an angle of 23.5° to the plane of the equator
- d) The polar axis of the Earth crosses the magnetic south pole and the magnetic north pole and is perpendicular to the plane of the equator

43. What information is broadcasted on a VOLMET frequency?

- a) Current information
- b) Navigational information
- c) Meteorological information
- d) NOTAMS

44. What process causes latent heat being released into the upper troposphere?

- a) Cloud forming due to condensation
- b) Descending air across widespread areas
- c) Evaporation over widespread water areas
- d) Stabilisation of inflowing air masses

45. For TC 040° , TAS 180 kt and wind $350^\circ/30$ kt, how should the wind correction be expressed in plain language?

- a) 7° left
- b) 7° right
- c) 3° right
- d) 3° left

46. When is it necessary to adjust the pressure in the reference scale of an altimeter?

- a) After maintenance has been finished
- b) Every day before the first flight
- c) Once a month before flight operation
- d) Before every flight and during cross country flights

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47. "Foehn" conditions usually develop with...

- a) Instability, high pressure area with calm wind.
- b) Stability, high pressure area with calm wind.
- c) Stability, widespread air blown against a mountain ridge.
- d) Instability, widespread air blown against a mountain ridge.

48. The term "flight time" is defined as...

- a) The period from engine start for the purpose of taking off to leaving the aircraft after engine shutdown
- b) The period from the start of the take-off run to the final touchdown when landing
- c) The total time from the first aircraft movement until the moment it finally comes to rest at the end of the flight
- d) The total time from the first take-off until the last landing in conjunction with one or more consecutive flights

49. What could be a reason for changing the runway indicators at aerodromes (e.g. from runway 06 to runway 07)?

- a) The magnetic variation of the runway location has changed
- b) The magnetic deviation of the runway location has changed
- c) The true direction of the runway alignment has changed
- d) The direction of the approach path has changed

50. What is the correct course of action when experiencing a radio failure in class D airspace?

- a) The flight has to be continued above 5000 feet complying with VFR flight rules or the airspace has to be left by the shortest route
- b) The flight has to be continued above 5000 feet complying with VFR flight rules or the airspace has to be left using a standard routing
- c) The flight has to be continued according to the last clearance complying with VFR rules or the airspace has to be left by the shortest route
- d) The flight has to be continued according to the last clearance complying with VFR flight rules or the airspace has to be left using a standard routing

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51. What conditions are mandatory for the formation of thermal thunderstorms?

- a) Absolutely stable atmosphere, high temperature and high humidity
- b) Absolutely stable atmosphere, high temperature and low humidity
- c) Conditionally unstable atmosphere, high temperature and high humidity
- d) Conditionally unstable atmosphere, low temperature and low humidity

52. Which validity does the "Certificate of Airworthiness" have?

- a) Unlimited
- b) 12 years
- c) 6 months
- d) 12 months

53. Which altitude marks the lower limit where the body is unable to completely compensate the effects of the low atmospheric pressure?

- a) 5000 feet
- b) 22000 feet
- c) 12000 feet
- d) 7000 feet

54. What structural item provides directional stability to an aeroplane?

- a) Differential aileron deflection
- b) Wing dihedral
- c) Large elevator
- d) Large vertical tail

55. On what frequency shall a blind transmission be made?

- a) On the appropriate FIS frequency
- b) On a tower frequency
- c) On a radar frequency of the lower airspace
- d) On the current frequency

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56. Times are transmitted as...

- a) Local time.
- b) Time zone time.
- c) UTC.
- d) Standard time.

57. What process results in the formation of "advection fog"?

- a) Cold, moist air is being moved across warm ground areas
- b) Cold, moist air mixes with warm, moist air
- c) Prolonged radiation during nights clear of clouds
- d) Warm, moist air is moved across cold ground areas

58. A pilot can contact FIS (flight information service)...

- a) By a personal visit
- b) Via telephone
- c) Via radio communication
- d) Via internet

59. The term "moment" with regard to a mass and balance calculation is referred to as...

- a) Sum of a mass and a balance arm
- b) Difference of a mass and a balance arm
- c) Quotient of a mass and a balance arm
- d) Product of a mass and a balance arm

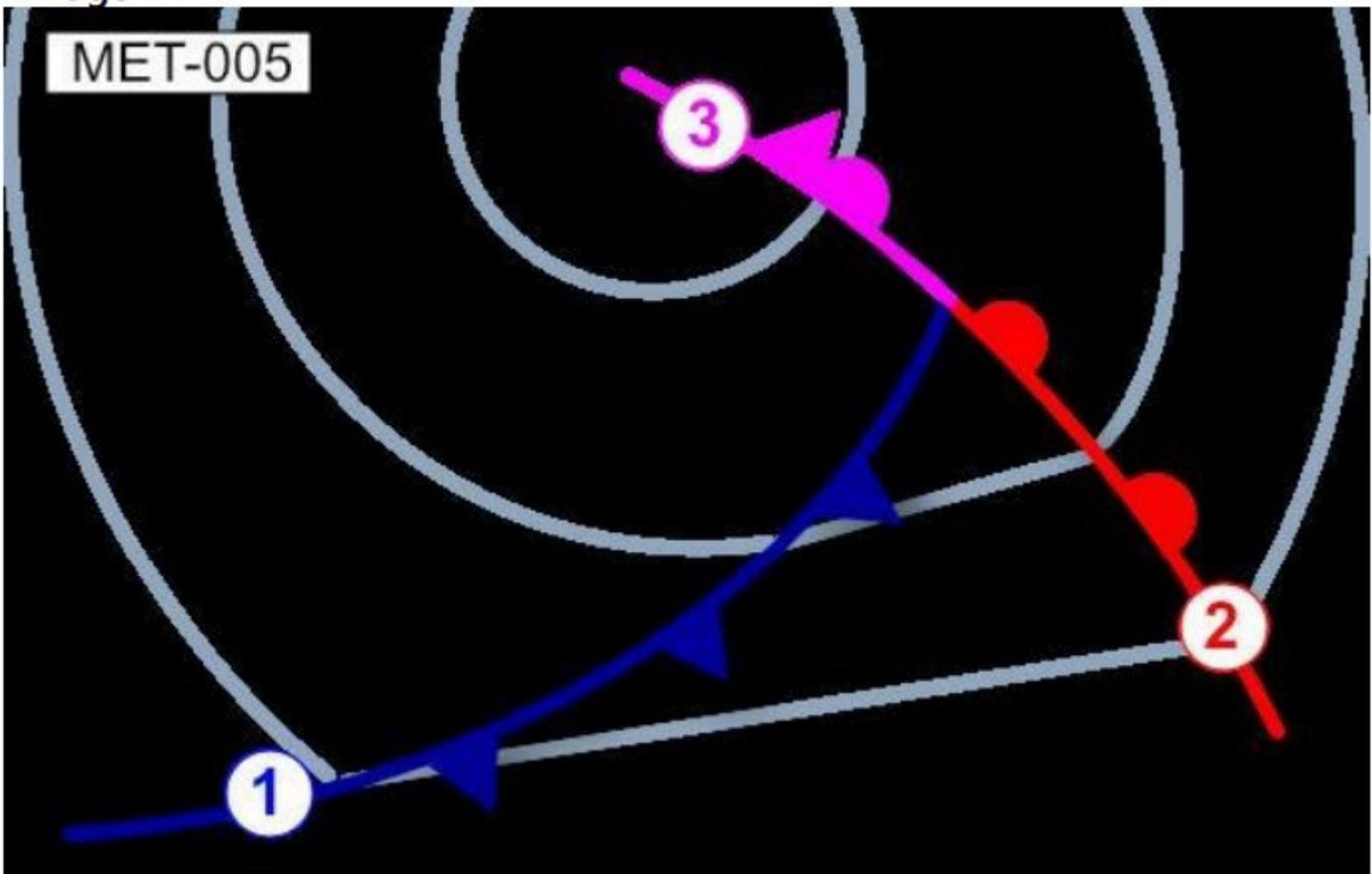
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60. The symbol labeled (2) as shown in the picture is a / an... See figure (MET-005)



- a) Front aloft
- b) Cold front
- c) Occlusion
- d) Warm front

61. Which answer states a risk factor for diabetes?

- a) Sleep deficiency
- b) Overweight
- c) Smoking
- d) Alcohol consumption



62. What is the correct way of acknowledging the instruction "Next report PAH"?

- a) Positive
- b) Wilco
- c) Report PAH
- d) Roger

63. During slope soaring you have the hill to your left side, another glider is approaching from the opposite side at the same altitude. How do you react?

- a) You divert to the right
- b) You expect the opposite glider to divert
- c) You divert to the right and expect the opposite glider to do the same
- d) You pull on the elevator and divert upward

64. A pilot licence issued in accordance with ICAO Annex 1 is valid in...

- a) Those countries that have accepted this licence on application
- b) The country where the licence was acquired
- c) All ICAO countries
- d) The country where the licence was issued

65. What weather phenomena have to be expected around an upper-level trough?

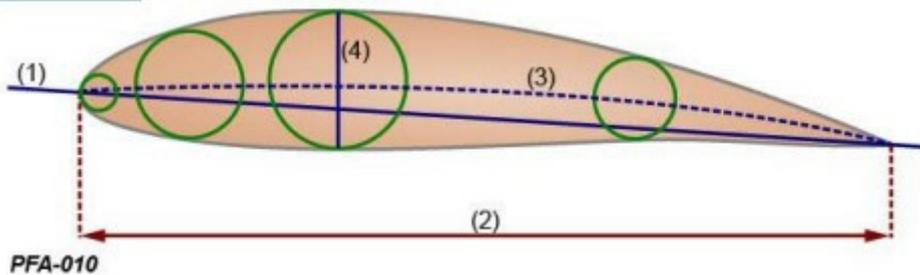
- a) Calm weather, formation of lifted fog layers
- b) Calm wind, forming of shallow cumulus clouds
- c) Development of showers and thunderstorms (Cb)
- d) Formation of high stratus clouds, ground-covering cloud bases

66. The term "beginning of thermals" refers to the moment when thermal intensity...

- a) Becomes usable for cross-country gliding by formation of Cu clouds.
- b) Becomes usable for gliding and reaches up to 1200 m MSL.
- c) Reaches up to 600 m AGL and forms Cumulus clouds.
- d) Becomes usable for gliding and reaches up to 600 m AGL.



67. Number 2 in the drawing corresponds to the... See figure (PFA-010)



- a) Profile thickness
- b) Chord
- c) Chord line
- d) Angle of attack

68. What is the function of the red blood cells (erythrocytes)?

- a) Blood coagulation
- b) Blood sugar regulation
- c) Oxygen transport
- d) Immune defense

69. Which abbreviation is used for the term "abeam"?

- a) ABB
- b) ABM
- c) ABE
- d) ABA

70. A risk factor for decompression sickness is...

- a) Sports
- b) 100 % oxygen after decompression
- c) Scuba diving prior to flight.
- d) Smoking

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Response Scheme

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

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

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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: _____
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29: _____	30: _____	31: _____	32: _____
33: _____	34: _____	35: _____	36: _____
37: _____	38: _____	39: _____	40: _____
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53: _____	54: _____	55: _____	56: _____
57: _____	58: _____	59: _____	60: _____
61: _____	62: _____	63: _____	64: _____
65: _____	66: _____	67: _____	68: _____
69: _____	70: _____		