

# Simulazione di Esame

Operational Procedure - PPL(A) English - Private Pilot License (Aircraft), 70 domande in 70 minuti!



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NOME ALLIEVO:

DATA & ORA:

## 01. What does the slip indicator show?

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- a) Apparent vertical
- b) Rate of turn
- c) Vertical to horizon
- d) Airplane's bank

## 02. For a take-off from runway 22 and a reported wind of 250°/10 kt, the longitudinal wind component equals...

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- a) 9 kt tailwind
- b) 5 kt tailwind.
- c) 9 kt headwind.
- d) 9 kt headwind.

## 03. Which altitude is displayed on the altimeter when set to a specific QNH?

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- a) Altitude in relation to the 1013.25 hPa datum
- b) Altitude in relation to mean sea level
- c) Altitude in relation to the air pressure at the reference airfield
- d) Altitude in relation to the highest elevation within 10 km

## 04. During an approach the aeroplane experiences a windshear with a decreasing tailwind. If the pilot does not make any corrections, how do the approach path and the indicated airspeed (IAS) change?

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- a) Path is higher, IAS decreases
- b) Path is higher, IAS increases
- c) Path is lower, IAS decreases
- d) Path is lower, IAS increases

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**05. For the purpose of a flight preparation, the pilot calculates a total take-off mass of 750 kg and a total moment of 625 mmkg. Which cross marks the center of gravity (CG)? See annex (PFP-003) (1,00 P.) Siehe Anlage 3**

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

**06. The term "runway" is defined as a...**

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- a) Round area on an aerodrome prepared for the landing and take-off of aircraft
- c) Rectangular area on a land or water aerodrome prepared for the landing and take-off of aircraft.
- d) Rectangular area on a land aerodrome prepared for the landing and take-off of helicopters.

**07. What is the true course (TC) from Uelzen (EDVU) (52°59'N, 10°28'E) to Neustadt (EDAN) (53°22'N, 011°37'E)? See annex (NAV-031) (1,00 P.) Siehe Anlage 3**

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- a) 241°
- b) 235°
- c) 061°
- d) 055°

**08. An aircraft is following a true course (TC) of 040° at a constant true airspeed (TAS) of 180 kt. The wind vector is 350°/30 kt. The wind correction angle (WCA) equals...**

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

**09. A vertical speed indicator measures the difference between...**

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- a) Instantaneous total pressure and previous total pressure.
- b) Total pressure and static pressure.
- c) Instantaneous static pressure and previous static pressure.
- d) Dynamic pressure and total pressure

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## 10. What is the meaning of a steady green light signal at a controlled aerodrome directed to an aircraft in flight?

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- a) Give way to other aircraft and continue circling
- b) Cleared to land
- c) Return for landing, followed by steady green at the appropriate time
- d) Airport unsafe, do not land

## 11. What is the meaning of the phrase "Approved"?

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- a) I have received all of your last transmission
- b) I understand your message and will comply with it
- c) Permission for proposed action is granted
- d) An error has been made in this transmission. The correct version is...

## 12. What is the minimum flight visibility in airspace "C" below FL 100 for an aircraft operating under VFR?

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- a) 5 km
- b) 10 km
- c) 1.5 km
- d) 8 km

## 13. What should be considered regarding a scheduled flight over water, when land cannot be reached in case of an emergency landing?

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- a) Transponder code 7600 has to be set during the whole flight
- b) Contact to the nearest ATC shall consist during the whole flight
- c) For all passengers there must be life jackets or lifeboats present
- d) The flight plan has to contain the exact waypoints

## 14. What cloud type can typically be observed across widespread high pressure areas during summer?

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- a) Overcast low stratus
- b) Scattered Cu clouds
- c) Overcast Ns clouds
- d) Squall lines and thunderstorms

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## 15. Wings level after a longer period of turning can lead to the impression of...

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- a) Starting a descent.
- b) Starting a climb.
- c) Steady turning in the same direction as before
- d) Turning into the opposite direction

## 16. Which are the properties of a Lambert conformal chart?

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- a) Great circles are depicted as straight lines and the chart is an equal-area projection
- b) The chart is conformal and an equal-area projection
- c) The chart is conformal and nearly true to scale
- d) Rhumb lines are depicted as straight lines and the chart is conformal

## 17. What is indicated by a pattern of longitudinal stripes of uniform dimensions disposed symmetrically about the centerline of a runway?

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- a) At this point the glide path of an ILS hits the runway
- b) Do not touch down before them
- c) Do not touch down behind them
- d) A ground roll could be started from this position

## 18. The angle of attack is the angle between...

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- a) The undisturbed airflow and the longitudinal axis of an aeroplane.
- b) The chord line and the longitudinal axis of an aeroplane
- c) The chord line and the oncoming airflow
- d) The wing and the fuselage of an aeroplane.

## 19. Which would be the correct reaction when hydroplaning is suspected upon landing?

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- a) Add power and use flaps and spoilers to brake aerodynamically
- b) Apply maximum braking to reduce aircraft speed to less than hydroplaning speed, then continue normal ground roll
- c) Cross rudder and aileron controls in order to use the aircraft fuselage to brake aerodynamically
- d) If all wheels are in motion, brake moderately. Maintain directional control by aerodynamic means

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**20. Given: QDM: 248° VAR: 10° W The QTE is...**

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- a) 238°.
- b) 078°
- c) 058°.
- d) 258°.

**21. During a descent at idle power with constant speed, the propeller lever is moved backwards. How do the propeller pitch and sink rate change?**

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- a) Propeller pitch is increased, sink rate is increased
- b) Propeller pitch is increased, sink rate is decreased
- c) Propeller pitch is decreased, sink rate is increased
- d) Propeller pitch is decreased, sink rate is decreased

**22. What is the meaning of the abbreviation "TRA"? (**

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- a) Temporary Reserved Airspace
- b) Temporary Radar Routing Area
- c) Transponder Area
- d) Terminal Area

**23. With respect to aircraft accident and incident investigation, what are the three categories regarding aircraft occurrences?**

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- a) Event Crash Disaster
- b) Happening Event Serious event
- c) Ncident Serious incident Accident
- d) Event Serious event Accident

**24. Through which factor listed below does the load factor increase during cruise flight?**

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- a) A forward centre of gravity
- b) Higher aeroplane weight
- c) An upward gust
- d) Lower air density

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## 25. An aerodrome beacon (ABN) is a...

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- a) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the ground.
- b) Rotating beacon installed at the beginning of the final approach to indicate its location to aircraft pilots from the air.
- c) Rotating beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air.
- d) Fixed beacon installed at an airport or aerodrome to indicate its location to aircraft pilots from the air.

## 26. What is the correct term for a message used for air traffic control?

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- a) Flight regularity message
- b) Meteorological message
- c) Message related to direction finding
- d) Flight safety message

## 27. The formation of medium to large precipitation particles requires...

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- a) A high cloud base.
- b) Strong wind.
- c) An inversion layer.
- d) Strong updrafts.

## 28. The stall warning will be activated just before reaching which speed?

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- a) VNE
- b) VS
- c) VX
- d) VR

## 29. During a flight at FL 80, the altimeter setting has to be...

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- a) 1030.25 hPa.
- b) 1013.25 hPa.
- c) Local QFE.
- d) Local QNH.

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## 30. How often shall a blind transmission be made?

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- a) Two times
- b) Three times
- c) Four times
- d) One time

## 31. Which kind of engine is susceptible to carburettor fire?

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- a) Piston engines
- b) Turbine engines
- c) Electric motors
- d) Turboprop engines

## 32. In what cases is visibility transmitted in kilometers?

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- a) Up to 10 km
- b) Greater than 5 km
- c) Up to 5 km
- d) Greater than 10 km

## 33. Wet snow on a runway can lead to...

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- a) An increase in lift.
- b) A decrease in lift.
- c) Reduced rolling resistance during take-off.
- d) Increased rolling resistance during take-off.

## 34. Radio waves within the LF and MF range (e.g. NDB) travel as...

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- a) Sky wave.
- b) Sky wave and as ground / surface wave
- c) Ground / surface wave.
- d) Space wave (quasi-optical).

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## 35. Fuel quantity in small aircraft is most commonly measured through a level sensor. The European Certification Specifications CS 23 require that...

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- a) At least one fuel quantity indicator must be available to indicate the total amount of fuel aboard an aircraft. This Indicator must be calibrated adequately to indicate the correct amount of fuel during all phases of flight.
- b) If the fuel indicator fails, the pilot must land at the next available airport.
- c) If no fuel quantity indicator is available to the pilot in flight, the pilot must check the fuel quantity before commencing the flight and recalculate the remaining fuel on board in regular intervals during the flight.
- d) A fuel quantity indicator must be available for each tank and the indicator must be calibrated to read "zero" during level flight when the quantity of fuel remaining in the tank is equal to the unusable fuel supply.

## 36. A Grey-out is the result of...

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- a) Hypoxia
- b) Tiredness
- c) Positive g-forces.
- d) Hyperventilation

## 37. How should a landing on a contaminated runway be conducted if it proves to be inevitable?

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- a) Approach with the minimum crosswind component possible, use minimum flaps, touch down softly with positive pitch and minimum speed, do not apply brakes
- b) Approach with the minimum crosswind component possible, use maximum flaps, touch down with negative pitch and minimum speed, brake carefully
- c) Approach with the minimum crosswind component possible, use maximum flaps, touch down firmly with minimum speed, brake carefully
- d) Approach with the minimum crosswind component possible, use minimum flaps, touch down softly with minimum speed, do not apply brakes

## 38. Point A on the Earth's surface lies exactly on the parallel of latitude of 47°50'27"N. Which point is exactly 240 NM north of A?

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- a) 43°50'27"N
- b) 53°50'27"N
- c) 49°50'27"N
- d) 51°50'27"N



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**39. What is the nature of the flight shown in the given ATC flight plan? See annex (PFP-051a) (1,00 P.) Siehe Anlage 19**

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- a) Night flight under visual flight rules.
- b) Flight under instrument flight rules.
- c) Traffic pattern under visual flight rules.
- d) Border crossing flight.

**40. Which factor can be changed by deploying flaps for landing?**

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- a) The position of the center of gravity
- b) The effectiveness of the ailerons
- c) The twist effect of the engine
- d) The trim condition

**41. After take-off an aeroplane gets into a wind shear with decreasing headwind. As a result...**

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- a) The aeroplane flies above the estimated climb path
- b) The true airspeed (TAS) will increase
- c) The ground speed (GS) will decrease
- d) The aeroplane flies below the estimated climb path.

**42. What pattern can be found at the stagnation point?**

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- a) The boundary layer starts separating on the upper surface of the profile
- b) The laminar boundary layer changes into a turbulent boundary layer
- c) All aerodynamic forces can be considered as attacking at this single point
- d) Streamlines are divided into airflow above and below the profile

**43. How does the pilot prepare for a VFR flight over a large distance of water, when it is unlikely that land can be reached in case of an engine failure?**

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- a) File a flight plan including the exact way-points
- b) Be prepared to fly with transponder only
- c) Carry life vests or a life raft for all occupants.
- d) Maintain continuous radio contact with ATC.

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**44. What is the function of the blood platelets (thrombocytes)?**

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

**45. An aircraft is flying with a true airspeed (TAS) of 120 kt and experiences 35 kt tailwind. How much time is needed for a distance of 185 NM?**

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- a) 1 h 32 min
- b) 0 h 50 min
- c) 1 h 12 min
- d) 2 h 11 min

**46. What is the meaning of "DETRESFA"?**

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

**47. Which phenomenon may be expected at point 2 of the microburst? See figure (OPR-001) (1,00 P.) Siehe Anlage 1**

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- a) Constant rate of descent
- b) Decrease of descent rate
- c) Increase of airspeed
- d) Decrease of climb rate

**48. Point number 1 in the figure indicates which flight state? See figure (PFA-008) (1,00 P.) Siehe Anlage 5**

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- a) Stall
- b) Inverted flight
- c) Best gliding angle
- d) Slow flight

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**49. The position of the center of gravity equals... See figure (PFP-052e) (1,00 P.) Siehe Anlage 1**

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- a) 147.5 in.
- b) 145.7 in.
- c) 142 in.
- d) 137.5 in

**50. When should turns at low altitudes above villages be avoided with regard to noise abatement procedures?**

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- a) In descent
- b) In climb
- c) During the approach
- d) In horizontal flight

**51. What is the unit for electrical power?**

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- a) Ampere
- b) Ohm
- c) Watt
- d) Volt

**52. Carbon monoxide poisoning can be caused by...**

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- a) Fuel or hydraulic fluids.
- b) Generator failure.
- c) Cracks in the heat exchanger.
- d) Pitot icing.

**53. The balance arm is the horizontal distance between...**

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

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## 54. The speed $V_x$ means...

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- a) That a given altitude is reached within minimum distance
- b) That a given altitude is reached within minimum flight time
- c) Maximum altitude gain per 10 % power
- d) That a given altitude is reached with minimum fuel consumption

## 55. What frontal line divides subtropical air from polar cold air, in particular across Central Europe?

---

- a) Occlusion
- b) Cold front
- c) Polar front
- d) Warm front

## 56. What is the status of the rules and procedures created by the EASA? (e.g. Part-SFCL, Part-MED)

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- a) They have the same status as ICAO Annexes
- b) Only after a ratification by individual EU member states they are legally binding
- c) They are not legally binding, they only serve as a guide
- d) They are part of the EU regulation and legally binding to all EU member states

## 57. The term "balance arm" in the context of a mass and balance calculation defines the...

---

- a) Distance from the datum to the center of gravity of a mass.
- b) Distance of a mass from the center of gravity.
- c) Point on the longitudinal axis of an aeroplane or its extension from which the centers of gravity of all masses are referenced.
- d) Point through which the force of gravity is said to act on a mass.

## 58. What does the reported runway condition "WET" mean?

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- a) Some water patches are visible
- b) The surface of the runway is soaked, but there are no significant patches of standing water
- c) A large part of the surface is flooded
- d) The runway is clear of water, ice, and snow

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**59. What does the abbreviation "HX" stand for?**

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- a) No specific opening hours
- b) Sunrise to sunset
- c) Sunset to sunrise
- d) 24 h service

**60. Wake turbulences develop during take-off just as the aeroplane...**

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- a) Reaches an altitude of 15 ft.
- b) Lifts off with the main gear.
- c) Lifts off with the front gear.
- d) Accelerates

**61. Which abbreviation is used for the term "abeam"?**

---

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

**62. Wake turbulence is particularly strong...**

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- a) When flying at high speeds
- b) When flying at high altitudes
- c) When flying at low speeds
- d) When flying at low altitudes

**63. (For this questions, use attachment or CAP697 SEP1 Fig. 2.2 Table 2.2.3) Planning a flight from EDWH (Oldenburg Hatten) to EDWF (Leer Papenburg), the following conditions apply: Cruise level = FL 65 Temperature = ISA+20 Cruise weight = 3400 lbs Power setting = 23.0 in. HG @ 2300 RPM What Indicated Airspeed (IAS) and Fuel Flow (FF) can be expected? (2,00 P.) Siehe Anlage 21**

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- a) IAS = 142 kt FF = 11.5 GPH
- b) IAS = 145 kt FF = 11.9 GPH
- c) IAS = 158kt FF = 11.5 GPH
- d) IAS = 150 kt FF = 12.3 GPH

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**64. Fading in LF/MF frequency range occurs mainly...**

---

- a) In the late afternoon.
- b) At midday.
- c) During the night.
- d) In the daytime.

**65. If surrounded by airflow ( $v > 0$ ), any arbitrarily shaped body produces...**

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- a) Lift without drag.
- b) Drag and lift.
- c) Constant drag at any speed.
- d) Drag

**66. What is the required distance to climb to flight level (FL) 75 after a departure from an airfield which is located at a pressure altitude of 3000 ft with an initial mass of 3000 lbs? OAT at airfield: 25° C OAT in FL 75: 0° C See annex (PFP-023) (1,00 P.) Siehe Anlage 14**

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- a) 10 NM
- b) 6 NM
- c) 4 NM
- d) 7 NM

**67. Temperatures will be given by meteorological aviation services in Europe in which unit?**

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- a) Degrees Centigrade (° C)
- b) Kelvin
- c) Gpdam
- d) Degrees Fahrenheit

**68. Which section of the flight manual describes the basic empty mass of an aircraft?**

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- a) Normal procedures
- b) Limitations
- c) Performance
- d) Weight and balance

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**69. The minimum flight visibility at 5000 ft MSL in airspace B for VFR flights is...**

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- a) 8000 m
- b) 3000 m.
- c) 1500 m.
- d) 5000 m.

**70. What is the approximate speed of electromagnetic wave propagation?**

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- a) 123000 m/s
- b) 300000 km/s
- c) 123000 km/s
- d) 300000 m/s

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## Schema Risposte

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

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