

Navigation Teacher Job Interview Questions And Answers



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Navigation Teacher Interview Questions And Answers Guide.

Question - 1:

What is meridian?

Ans:

A Meridian is a Great Circle line which passes through the poles of the earth. A local Meridian is one that passes through the observer's local position. The Greenwich Meridian passes through Greenwich, England, and is defined as having 0. Longitude.

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Question - 2:

What is sector Lights?

Ans:

Sector Lights is light emitted from a single position which will show up as either red, white or green depending on the angle of the observer, designed to indicate a safe navigational area.

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Question - 3:

What is limb?

Ans:

Limb is when taking a sun or moon sight it is difficult to guess where the center is so the observer aligns either the top edge (Upper Limb) or more usually the bottom edge (Lower Limb) of the object on to the horizon. The sight is then corrected using the appropriate correction tables.

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Question - 4:

What is running fix?

Ans:

Running fix is advancing a LOP or previous line of position forward to a current line of position. A fix based on two separated bearings of the same fixed object and the distance run between the bearings.

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Question - 5:

What is Local Noon?

Ans:

Local Noon is the time when the sun reaches its highest altitude at your position and is directly north or south of you. it will then be at your Zenith and its GHA will correspond to your longitude.

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Question - 6:

What is celestial sphere?

Ans:

Celestial sphere is an imaginary sphere with the earth at its center, on whose surface the stars, planets and other heavenly bodies appear to be situated.

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Question - 7:

What is snellius construction?

Ans:

Snellius construction is a method for combining three compass bearings to obtain a position fix, one where magnetic variation and deviation need not to be taken into



account.

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Question - 8:

What is ITCZ, Intertropical Convergence Zone?

Ans:

ITCZ, Intertropical Convergence Zone is the varying area of normally still air lying approximately between 5° north and south of the equator.

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Question - 9:

What is position, Estimated?

Ans:

The Estimated Position is the latitude and longitude at which the observer estimates his position to be, before fixing his actual position with the use of a sextant.

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Question - 10:

What is declination?

Ans:

Declination is the angular distance to a point on the celestial sphere measured north and south from the celestial equator along the hour circle.

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Question - 11:

What is mercator projection?

Ans:

Mercator projection is a method for representing the spherical globe as a flat map with lines of latitude and longitude intersecting at right angles. Devised by Gerardus Mercator in 1569.

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Question - 12:

What is cardinal Marks?

Ans:

Cardinal Marks is buoyage marks indicating the direction of safe water with reference to the cardinal points.

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Question - 13:

What is international Date Line?

Ans:

International Date Line is the imaginary line in the Pacific Ocean at which the date changes. This line varies from the 180° meridian to avoid populated land areas.

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Question - 14:

What is great Circle?

Ans:

A plane through the centre of the earth intersects the surface of the earth on a Great Circle. So the centres of Great Circles are always at the centre of the earth.

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Question - 15:

What is drying height?

Ans:

Drying height is the height above chart datum, on a chart, of any areas which are uncovered at low water.

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Question - 16:

What is course?

Ans:

Course is the direction in which a vessel is heading or is intended to be steered, the direction through the water.

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Question - 17:

What is quadrat?



Ans:

Quadrant is a precursor to the sextant as an instrument used to measure altitudes up to 90. or one quarter of a circle, hence the name. First proposed by Ptolemy as an improvement on the astrolabe.

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Question - 18:

What is jetsam?

Ans:

Jetsam is are objects that have been thrown overboard from a vessel, originally stuff jettisoned by a ship which was in trouble.

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Question - 19:

What is geographical Position or GP?

Ans:

Geographical Position or GP is in celestial navigation it is the point on the earths surface directly beneath the Zenith, and the bit of the surface you are standing on is your body's Geographical Position or GP.

[View All Answers](#)

Question - 20:

What is conversion tables?

Ans:

Conversion tables is used to convert units of one system to units in another.

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Question - 21:

What is electronic logs or E log books?

Ans:

Electronic logs or E log books is a method of standardising the keeping of logs digitally on commercial vessels.

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Question - 22:

What is cocked hat?

Ans:

Cocked hat is a triangle formed by a series of three LOPs which do not meet at an exact point.

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Question - 23:

What is apparent wind?

Ans:

Apparent wind is the wind as felt on board, this will be the actual wind modified by the wind created by the vessels movement.

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Question - 24:

What is refraction?

Ans:

Having passed through the vacuum of outer space, the light from the celestial body has to pass through the atmosphere before it is observed using a sextant. The atmosphere tends to bend the path of the light as it passes through, so that the celestial body appears higher in the sky than it would be if there was no atmosphere. A calculated Altitude assumes the earth has no atmosphere, so the sextant Altitude has to be corrected for Refraction so that it can be compared to the calculated Altitude. Refraction tables are always included in Almanacs used for celestial navigation.

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Question - 25:

Azimuth?

Ans:

Azimuth is the horizontal angular distance from a reference position to a celestial body, usually measured clockwise in degrees from the direction of the nearest pole.

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Question - 26:

What is compass?

Ans:

Compass is a device that always points towards magnetic north, used for navigation.



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Question - 27:

What is dead reckoning?

Ans:

Dead reckoning is determining a position by plotting courses and speeds from a known position.

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Question - 28:

What is electronic charts?

Ans:

Electronic charts are there are two different types see Vector charts and Raster marine charts.

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Question - 29:

Tell me what is chronometer?

Ans:

Chronometer is a very accurate clock or watch that is used for determining one's longitude at sea

[View All Answers](#)

Question - 30:

What is barometric Gradient?

Ans:

Barometric Gradient is the rate at which atmospheric pressure rises or falls.

[View All Answers](#)

Question - 31:

What is south Magnetic Pole?

Ans:

South Magnetic Pole is the southerly point toward which a compass' needle always points, the south of the earth's magnetic field as opposed to the geographic south pole.

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Question - 32:

What is deviation?

Ans:

Deviation is the compass errors caused by metallic or magnetic objects on board the vessel.

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Question - 33:

What is CMG?

Ans:

CMG is the Course Made Good is the course over the ground.

[View All Answers](#)

Question - 34:

What is barometer?

Ans:

Barometer is an instrument for measuring atmospheric pressure.

[View All Answers](#)

Question - 35:

What is dip?

Ans:

Dip is a correction to be applied to sextant altitudes to compensate for height of eye above sea level.

[View All Answers](#)

Question - 36:

What are cardinal Points?

Ans:



Cardinal Points is the four main points of the compass, North, East, South and West.

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Question - 37:

What is aries?

Ans:

Aries is the constellation of the Ram in the Northern Celestial Hemisphere, see also, First Point of Aries.

[View All Answers](#)

Question - 38:

What is civil twilight?

Ans:

Civil twilight is times given in the almanac, for listed latitudes for approximately the best time to take a morning or evening sight, when both the horizon and the heavenly bodies are visible.

[View All Answers](#)

Question - 39:

What is greenwich meridian?

Ans:

Greenwich meridian is the Prime Meridian it is the 0.longitude line, it is referred to as the Greenwich Meridian because it passes through the Royal Observatory at Greenwich in the UK.

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Question - 40:

What is zenith?

Ans:

Zenith is the point directly above the observer's head.

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Question - 41:

What is parallax?

Ans:

Parallax is the apparent differences in the positions of objects viewed along different lines of sight.

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Question - 42:

What is first Point of Aries?

Ans:

First Point of Aries is a point on the celestial sphere which is used as a reference point, it is in fact where the 'Ecliptic' and the Celestial Equator cross.

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Question - 43:

What is cross bearing?

Ans:

Cross bearing is using LOPs from several navigational aids or marks to obtain a position fix.

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Question - 44:

What is beaufort?

Ans:

Beaufort Scale is a numerical method of describing wind strength.

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Question - 45:

Tell me what is altitude?

Ans:

Altitude is the angular distance of a celestial body above the viewers horizon.

[View All Answers](#)

Question - 46:



What is azimuth Quadrant?

Ans:

The celestial body will be in one of four Azimuth Quadrants. If it is to the NORTH WEST, (Azimuth 0. to 90.), then it is in the NORTH WEST quadrant and so on for the SOUTH WEST, SOUTH EAST and NORTH EAST.

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Question - 47:

What is celestial navigation?

Ans:

Celestial navigation is a method of navigating by referring to the stars or other objects in the sky.

[View All Answers](#)

Question - 48:

What is course made good?

Ans:

Course made good is the direction in which the vessel is actually traveling as opposed to the direction in which it is pointing. Corrections is alterations made to charts to update navigational information.

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Question - 49:

What is fathom?

Ans:

Fathom is an old fashioned unit of measurement to measure depth, approximately equal to 6 feet or 1.8 meters.

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Question - 50:

What is Line Of Position, LOP?

Ans:

Line Of Position, LOP is a line drawn on a chart on which the position of the vessel must lie. The line deduced from either a compass bearing of a mark or a sight reduction. A minimum of two or preferably more are necessary to establish a fix.

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Question - 51:

What is westerlies?

Ans:

Westerlies are the prevailing west-to-east winds of the middle latitudes of both hemispheres on Earth.

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Question - 52:

What is anabatic Winds?

Ans:

Anabatic Winds are caused by warm air rising up a slope to be replaced by cooler air, as opposed to katabatic, descending winds.

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Question - 53:

What is crux?

Ans:

Crux is the Southern Cross a constellation seen in the southern hemisphere.

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Question - 54:

What is greenwich Hour Angle (GHA)?

Ans:

The Greenwich Hour Angle (GHA) is the angular distance to the Meridian of the celestial body, as measured Westwards from the Greenwich Meridian (0. Longitude, also called the Prime Meridian).

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Question - 55:

Almanac?

Ans:

Almanac is an annual publication containing Tide Tables astronomical ephemerals etc.



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Question - 56:

What is Ptolemy?

Ans:

Ptolemy is Claudius Ptolemaeus, c. AD 90 to c. 168 a Roman mathematician, astronomer, geographer, possibly of Greek or Egyptian origin.

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Question - 57:

What is horizon glass?

Ans:

Horizon glass is or horizon mirror half clear glass half mirror, on a sextant it allows the observer to view the horizon at the same time as a reflection of whatever is showing in the index mirror. Read more:

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Question - 58:

What is drift?

Ans:

Drift is the speed in knots of the effect of current or tide on a vessel's progress.

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Question - 59:

What is compass rose?

Ans:

Compass rose is a design on a chart that shows direction. It points which way is north, south, east, west, and some intermediate directions.

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Question - 60:

What is bearing?

Ans:

Bearing is the compass reading taken of an object in relation to the observer.

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Question - 61:

What is artificial horizon?

Ans:

If sight of the natural horizon is not available, an artificial horizon is some means by which an observer can refer to a horizontal plane through his position. With a marine sextant, it is common to use a mirror in the horizontal plane. The angle between the celestial body as seen in the sky and as reflected in the mirror is measured with the sextant. Halving this angle gives the altitude of the celestial body above the horizon.

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Question - 62:

What is actual depth?

Ans:

Actual depth is the true depth of water as opposed to a predicted depth. Tidal height from table added to the charted depth.

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Question - 63:

What is standard port?

Ans:

Standard port is a port for which the tide tables give full details and from which secondary port details can be extrapolated. Strait is a narrow channel of water connecting two larger bodies of water.

[View All Answers](#)

Question - 64:

What is north magnetic pole?

Ans:

North magnetic pole is the northerly point toward which a compass' needle always points, the north of the earth's magnetic field as opposed to the geographic north pole.

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**Question - 65:**

What is horizon?

Ans:

Horizon is the apparent line, for an observer where the earth's surface and the sky meet. Also a circle formed on the celestial sphere by a plane tangent to a point on the Earth's surface.

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Question - 66:

What is doldrums?

Ans:

Doldrums is the Inter-tropical Convergence Zone (or ITCZ) a belt of very still air between 5 degrees north and 5 degrees south of the equator.

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Question - 67:

What is copernicus?

Ans:

Copernicus is 1473-1543, Polish astronomer credited with disproving the Ptolemaic System.

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Question - 68:

What is CC or Compass Course?

Ans:

CC or Compass Course is the course to steer which has been corrected for current, variation, and deviation.

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Question - 69:

What is local Hour Angle (LHA)?

Ans:

The Local Hour Angle (LHA) is the angular distance to the Meridian of the celestial body's Geographical Position, as measured Westwards from the observer's local Meridian.

The Local Hour Angle is calculated from the Greenwich Hour Angle (GHA) of the celestial body and the Longitude of your Estimated Position in the following way:-

* $LHA = GHA - \text{Longitude}$, if the Longitude is West

* $LHA = GHA + \text{Longitude}$, if the Longitude is East

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Question - 70:

What is astrolabe?

Ans:

Astrolabe is an instrument used to determine the altitude of celestial objects before the introduction of the sextant. The first recorded use by Greek astronomers in around 200 B.C.

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