

NOTES FOR THE SECOND MATE

TOPIC:

FUNCTION 1 QUESTIONS

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- + CONTROLS ON STEERING GEAR SYSTEMS.**
- + VARIOUS ERRORS ON WHEN A CELESTIAL OBSERVATION IS TAKEN.**
- + OBTAIN MEDICAL ADVICE BY RADIO.**
- + DESCRIBE BEAUFORT SCALE CONTENTS, WIND SPEED TO WAVE HEIGHT VALUES.**
- + DIFFERENCE BETWEEN TIDE, TIDAL STREAMS AND CURRENTS.**
- + HAVE YOU TAKEN ANY CELESTIAL OBSERVATIONS; DESCRIBE PROCEDURES FOR X-MERIDIAN, LONG BY CHRON AND INTERCEPT METHODS.**
- + DISCUSS THE MERITS AND THE DEMERITS OF LONG BY CHRON AND INTERCEPT; WHICH ONE WOULD YOU PREFER AND WHY.**
- + WHAT IS a_0 , a_1 , and a_2 CORRECTIONS IN A POLARIS OBSERVATION.**
- + CHART SYMBOLS LIKE : SHINTO SHRINE, FRESH WATER SPRINGS, BUDDHIST TEMPLE, UNSURVEYED COASTLINE, FISHING STAKES ETC.**
- + STRANDED VESSEL IN SIGHT, ACTION.**
- + ACTION TO ABANDON A VESSEL.**
- + OIL SLICK FROM A VESSEL AHEAD OF YOU IN ENGLISH CHANNEL ACTION.**
- + ECDIS, A SYNOPSIS.**
- + QUOTE RULES 5 AND 6.**
- + INTERCO CONTENTS AND SIGNALS EXCHANGED BETWEEN A ICEBREAKER AND AN ASSISTED VESSEL.**
- + GET MEDICAL ADVICE USING INTERCO.**
- + RADAR CHARACTERISTICS, EFFICIENCY AND LIMITATIONS.**
- + LIMITS OF EX-MERIDIAN.**

- # STOPPING DISTANCE, HEAD REACH AND TURNING CIRCLE.
- # EFFECT OF SPEED ON TURNING CIRCLE.
- # ISM. SYNOPSIS.
- # STCW 95 SYNOPSIS AND REST PERIODS FOR CREW.
- # IF A VESSEL IS AGROUND WHY SHOULD AN OOW. INFORM ENGINE ROOM.
- # PORT STATE CONTROL AND ITS POWERS.
- # CONTENTS OF ADMIRALTY SAILING DIRECTIONS AND WHERE YOU WOULD FIND A LIST OF THE SAME.
- # HOW DO YOU GO ABOUT PLOTTING A GREAT-CIRCLE COURSE AND WHAT ARE THE MERITS AND DE-MERITS.
- # FORMAT FOR A SITREP REPORT.
- # WHAT IS DOPPLER SHIFT AND HOW IS THIS EFFECT APPLIED TO THE LOG.
- # HOW DO YOU GO ABOUT CORRECTING VARIOUS PUBLICATIONS, EG. ALRS, LIST OF LIGHTS, ASD, ETC
- # WHAT IS NAVTEX.
- # TESTS ON EPIRBs AND SARTS
- # WHAT IS CAVITATION
- # ELABORATE ON SHALLOW WATER EFFECTS.
- # WHAT IS A NEAR MISS
- # Tx DISTRESS, URGENCY & SAFETY BY RT, WT.
- # CONTROL TESTS.
- # RPM '0' - ACTION.
- # RUDDER 50 TO STARBOARD - ACTION.
- # TRANSMIT DECIMAL/ERROR BY LIGHT SIGNAL.
- # ERROR BY Tx STATION.
- # ACTION IF YOU ARE Rx STATION.
- # HOW DOES EPIRB CALCULATE POSN. OF PERSONS IN DISTRESS.
- # DECIMAL IN R/T.
- # 0-10 IN PHONETICS.
- # DESCRIBE ECDIS - INTEGRATED BRIDGE SYSTEM.
- # DECCA: PRINCIPLE & ERRORS.

- # GPS: PRINCIPLE, ERRORS & GDOP.
- # AUTOPILOT CONTROLS + MODES.
- # EMERGENCY STEERING ON LAST SHIP.
- # ERROR OF MAGNETIC COMPASS AT NIGHT.
- # WORKING OF STAR FINNDER.
- # CHART CORRECTIONS.
- # PRINCIPLE OF 2 LOOPS OF D/F.
- # DOPPLER LOG PRINCIPLE.
- # MOB R/V.
- # SECTOR SIDE LIGHTS.
- # INTERCO CONTENTS.
- # PILOT V/L MORE THAN 100 MTS IN LENGTH LIGHTS.
- # OOW NARROW CHANNEL PRECAUTIONS.
- # ROUTEING CHARTS CONTENTS.
- # TYPES OF EPIRBS, L BAND POSITION FIXING METHODS.
- # SART.
- # FISHING VESSEL/TRAWLER AT ANCHOR LIGHTS.
- # NAVTEX IN DETAIL.
- # TIDAL STREAM ATLASES.
- # CORRECT CHARTS FOR 2 YEARS IF CUMULATIVE NOTICES NOT ON BOARD.
- # SART/EPIRB CARRAIGE REQUIREMENTS.
- # NO. OF SARTS ON BOARD.
- # EPIRB OPERATION.
- # ASK TRANSMITTING STATION TO REPEAT FOLLOWING.
- # HORIZONTAL SPACING FOR DIRECTION INDICATING LTS. FOR 150 MTS GEAR.
- # FOG SIGNAL FORD OF BEAM RESTRICTED VISIBILITY.
- # CORRECTION OF ECDIS CHARTS.
- # BLIP ON RADAR 8 MILES OFF RESTRICTED VISIBILITY.
- # AMVER/INSPIRES WHERE WILL YOU LOOK FOR STATIONS TO REPORT (IND NM ANNUAL ISSUE). AMVER TYPE OF REPORTS.
- # VERTICAL POSITIONING OF MASTHEAD & SIDE LIGHTS.

- # GMDSS. C-AREAS.
- # DF NIGHT EFFECT.
- # USES OF ANSWERING PENDANT.
- # SAFE SPEED.
- # PASSAGE FROM TOKYO TO NEWYORK.
- # TRANSFER OF P/L FROM GNOMONIC TO MERCATOR CHART.
- # ECHO SOUNDER ERRORS.
- # ELABORATE ON QUADRANTAL ERROR.
- # PRECAUTIONS BY OOW. AT TSS.
- # MEANING OF NATURAL SCALE.
- # GYRO ERROR.
- # IF GYRO IS TAKEN TO POLES WHAT WILL HAPPEN?
- # MERCATOR / GNOMONIC PROJECTION.
- # ECDIS: RASTER / VECTOR.
- # EGC: SAFETYNET / FLEETNET.
- # DIFFERENCE BETWEEN INMARSAT A & C.
- # NOON SIGHT IN DETAIL.
- # 37) SHALLOW WATER EFFECT.
- # HORIZONTAL SECTOR OF LIGHTS.
- # POSITION OF MANOEUVRING LIGHTS.
- # SAILING V/L IDENTIFICATION.
- # MEANING OF COMBINED LANTERN & WHEN CAN IT BE CARRIED.
- # SAILING V/L END ON, ACTION.
- # FISHING V/L OVERTAKING YOU, ACTION.
- # FISHING V/L HAMPERED BY GEAR LIGHTS.
- # ANCHORING TERMS.
- # OPEN SEA STEERING GEAR FAILURE.
- # OTHER V/L OVERTAKING, ACTION.
- # WHAT ARE THE MEDICAL PUBLICATIONS ON BOARD.
- # LIGHTS FOR A DIVING V/L.
- # OCCULTING & FLASHING LIGHTS.
- # MAN OVERBOARD, ACTION.

- # PRINCIPLE OF ECHO SOUNDER.
- # WHAT IS UPPERMOST CONTINUOUS DECK.
- # CAN POOP OR FO'CSLE BE U.C.D.?
- # CAN POOP DK. ON LOG CARRIER BE U.C.D.?
- # WHAT IS AREA A3?
- # WHY IS A STARBOARD TURN PREFERRED IN ROR?
- # TURNING CIRCLE OF LAST SHIP.
- # TRANSVERSE THRUST & FUNCTIONAL WAKE.
- # MANOEUVRING LIGHTS SPECIFICATIONS & USES.
- # HORIZONTAL SPACING OF LIGHTS.
- # WHAT IS ASPECT?
- # IN RADAR SET WHAT ARE THE ASSUMPTIONS MADE FOR ITS WORKING?
- # ERROR IN RADAR WHEN USED FOR RANGE DETECTION.
- # DRY DOCK TERMS.
- # WHAT IS DRAWING FORWARD / AFT.
- # HOW WILL YOU ENSURE ALL ROUND VISIBILITY OF RIGID REPLICA FLAG 'A'.
- # VERTICAL SEPERATION OF MASTHEAD LIGHTS.
- # VARIATION / DEVIATION DEFINITION.