

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 ADMIRALITY 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 5o 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 FINNED.
- 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 SEPARATION OF MASTHEAD LIGHTS.
- VARIATION / DEVIATION DEFINITION.