

14/3/23

Ss Gadkar

Electrical and safety

What is ctrl voltage

Alternator specs

as watchkeeper Earth Fault identification and rectification

Open circuit

How to check open circuit fault

AVR and lot more

Enclosed space entry permit

Scba checks before donning

Date-14/03/2023

Int-ss murthi

Ext-ss gadkar

Function-4b,6

*Type of Me and specifications

*Types of scavenging

*Type of turbocharger

*Explain constant type TC(xx)

*What is alpha lubricator

*Types of turbine washing and explain in detail how to perform booth

*Air compressor valve overhaul (xx)

*How to take tappet clearance complete procedure?

*How to know which unit at TDC in AE

*Boiler blow down procedure

*Gauge glass types and safeties

*Firing of boiler in manual mode

*Oil in hotwell, actions and remedies

*What is air fuel ratio and its importance

Rest forget

Result - 4b fail, 6 pass

Int chakki

Ext Gadkar

17/04/2023

Motor & Mep

Worked on which engine

Significance of firing order

Crankshaft misalignment

Pilot burner O/H

On which part of machinery we do annealing

Boiler water test and values of test

A/E piston crown checks

A/E cylinder head maintenance in workshop

Cylinder head inlet v/v removal procedure

Function Diffuser in centrifugal pump

Types of lubrication

How improper lubrication is effected to engine

Date: 01/05/2023

Mumbai MMD

Int: Kiran C.S. Sir

Ext: S.S. Gadkar Sir

Fn 6:

- 1) Chain drive how you know slack as watch keeping engineer.
- 2) Chain drive slackness confirmation
- 3) Chain drive tightness adjustment full
- 4) Loose tie rods main engine Indications you can se as watch keeper
- 5) Tie rod function
- 6) Foundation bolts of main engine and auxiliary engine tightness check how?
- 7) During AE decarb, liner is polished, would you use it or replace it ?
- 8) What is liner polishing?
- 9) What is liner honing? Why required?
- 10) Boiler Pilot burner routine overhaul and clearance checks (all 3 clearances) ?

3/6/23

Gadkar

Fresh water allownce

Formula

Inteenational shore connection

Purpose. Where it is connected

Types of keel

Wt is duct keel

Duct keel entry procedure (proper procudure) value of gasses

Solas chapter 9, certificate

Trickle charging . Why, how?

Alternator monthly jobs

Power factor , significance, how to improve

Insulated neutr l sys, why? As a watchkeeper how ll u come to know earth fault alarm is there, wt u ll do?

Earth fault is in MCSW pp. Wt u ll do?

9/6/23

SS Gadkar

Safety

1. Additional Safety Measures for bulk carriers, mentioned where? And what measures
 2. Types of Ship under Load Line Convention
 3. Types and function of Fire Detectors
 4. HRU and where it is used
 5. Safeties on Lifeboat Davit
 6. Pyrotechniques in Survival Craft
 7. Duration of 9L foam fire extinguisher
- Pass

Int. Kiran c.s Sir

Gadkar Sir

3_7_23

Type of engine

Boiler gauge glass overhaul

Lo tests on board

Hydraulic nut loosening procedure, safeties

Boiler pilot burner overhaul

Firing order explain

Crankcase inspection

Compressor safety

Ext. Gadkar Sir

MOTOR + MEP

How to counter lateral vibrations in ME

Checks on foundation bolts for ME

Sparking at funnel... Caused and what will you check

Turbocharger types

Constant Pr T/c adv and disadv

Boiler water sample how to take

How to do soot blowing

Types of Fuel Injectors

Int. Kiran sir

Ext. Gadkar sir

Func 3

Types of chem tanker

Collision bulkhead

Fire plan

Emcy fire pump reg

What is gm

Fn 5

What is open circuit. How will you check in motor

Class of insulation

What is bus bar

Pf. Significance of pf

Func 4

Boiler water test and values

And more

Ext. Gadkar sir

Piston calibration

Crank case inspection

Material of crankshaft

Heat treatment process in crank shaft

Ae decarb

Fuel injector test

Int. Kiran Sir

Ext. Chandershekhar Sir

Motor

Type of vessel

Spec of ME and AE

Constructional difference btw AE and ME.

Air starting.

He only asked these qns.. and said join after disconnecting.

Internal:kiran cs

External: Chandrasekaran

Function:safety

Angel of lol

Free surface effect

Metacentre

Deadweight

Epirb

Co2 system

Displacement

Internal Kiran

External Chandrashekaran

Type of ship

Types of chemical tanker

BDN

Certificates carried on ship

Annex -2 xx

Annex -1xx

IBC code

Bunker tank inspection

Gas limits in enclosed space

Pv valve and Pv breaker xx

Types of chemicals carried

MSDS xx

05/07/23

Praveen sir

Rk gupta sir

F4b & 6
Ship type
Electronic engine
How fuel can supply in electronic engine details
Centrifugal pump discharge pre low reason
High salinity reason
Boiler water test
Lube oil test
Aux engine one unit temp low
Ref. One room temp high
Refrigerant charging
Cylinder lube oil property
(Y it's different from system oil
TEV how it's work
Few more but not remember

05/07/23
Praveen sir
Rk gupta sir
F3
ISM
SMC
DOC
CO2 flooding
Shear
Bar keel
Shear strake

(From Random Don't know the surveyor name)
Safety
Solace ch12
Loadline
Margin line
Discharge criteria and distances
Cargo hold fire detection
Water ingress in cargo hold regulations

Safety
Co2 system
Lrit
Lta
Ssas
Vdr
Hypermist full
Fire main
Life boat launching
Life raft launching
How to recover

Tumbhle home
Transom space
Actions if one compartment is bilged

Int. ANIRUDDHA CHAKKI

Ext

Gadkar sir
COSCPPOOL
06/07/2023

- 1) Type of ship sailed
- 2) Collision Bulkhead
- 3) Solas Chp 9
- 4) Enclosed space entry
- 5) Fire extinguisher in Purifier room
- 6) Operation of Hypermist
- 7) DPA, DOC, SMC
- 8) Fire Detection system.

Electrical.

- 1) What is open circuit and closed circuit
- 2) How to identify open circuit
- 3) significance of Power factor
- 4) Emergency source of power supply.
- 5) SOLAS regulations of Eme. Source of Power supply.
- 6) how to Reduce Power factor .

Etc..etc..

Cleared both..

07/07/2023

Internal:- Chakki Sir

External:- SS GADKAR

1. Type of ship
2. Additional safety measures for bulk and convention under which it comes
3. ISM and convention
4. Bilge discharge machinery space criteria
5. What is gunwel
6. CCA and temperature cross question.
7. Lifeboat regulation
8. Types of keel.

Function 5.

1. Soft starter and application and load value
2. EMF
3. Transistors and application and it controls signal.
4. Speed control of induction
5. How induction motor starts
6. VFD
7. Power factor and significance
8. How to improve power factor

9. Safety of motor.
10. How induction motor rotates.

7/7/2023

Surveyor

SS Gadkar

Chaki

Type of vessel-Bulk carrier

Fn-3

Enclosed space entry procedure

SCBA tests before use

Co2 room daily checks

Battery room safeties

PSC inspection

Bulk carrier safeties

Types of keel

Structural arrangement for respective keels

Arrangements for pounding and panting

Asked about new safeties for bulk carrier

chapter 12

Fn-5

Electrical isolation

3 phase induction motor working

VFD

AVR working

Flashing of alternator

Specific gravity of battery when fully charged , 50% and nil

Other checks in battery

Fn-4&6

Type of engine and nomenclature

Type of A/E

Arrangement to stop M/E transverse movement

A/E head overhaul from beginning (ie locking tagging isolation etc)

breather pipe and where it leads

NPSH

Tie rods

Boiler tests with all the values and the corrective action you shall take

14/7/23

Ext SS Gadkar

Int Vikrant Rai

Fn 4b and 6

Mac overhaul

Stern tube sealing arrangement

Hunting of steering gear
In ums round how to know about Chain slack and tightening
Type of ship
Puncture valve
FIVA valve
Pilot burner overhaul
CF pump overhaul
How to check trueness of shaft (I mentioned in overhaul procedure)
Top bracing
What is viscotherm

Fn 3
Sheer Strake
Pyrotechnics
What is GM
What is SOLAS Chap 9
Rest forgot

14/7/23
int Vikrant rai
Ext SS gadkar
Fn 3 -
Fixed Co2 weekly inspection
Safeties to take before entering CO2 room
Company Environment protection policy
Lifeboat davit working and safeties
Significance of GM
FWA formula
TPC formula
III code
4b :
why Critical speed in main engine ?
Why not in auxillary engine?
Cylinder head overhauling
How to remove exh valve, seat and guide from cylinder head
Types of injection systems in engine
Vit explain
Why vit was introduced ?
Fx 5 :
Fuse and relay difference
How to order fuse
How to check capacity of fuse
MSB safeties
Transformer which type used where
Fxn 6 :
Boiler pilot burner maintenance
SDNR valve overhaul

Ext SS Gadkar
Int Vikrant Rai
Fn 4b and 6
Mac overhaul
Stern tube sealing arrangement
Hunting of steering gear
In ums round how to know about Chain slack and tightening
Type of ship
Puncture valve
FIVA valve
Pilot burner overhaul
CF pump overhaul
How to check trueness of shaft (I mentioned in overhaul procedure)
Top bracing
Fn 3
Sheer Strake
Pyrotechnics
What is GM
What is SOLAS Chap 9
What is viscotherm

14 july
Fun 4b
Type of ship
Type of propulsion
Const pr and pulse type
How to take out propeller in drydock
Fun 6
Safeties in air bottle
What is Liquid primer pump
Difficulties with CI welding
Fun 4b □
Fun 6 □
Deswal sir wanted to give but pravin nair sir didn't gave
Rest i don't remember

19/7/23
Ext ss gadkar sir
Int Nair sir
3 and 5

Function 3
Types of floors and uses
Types of keel and uses
Difference between construction of product tanker and chemical tanker
Gunwale
Isps code full

Mepc

Nox emission file entry

What is the construction in double bottom

Eexi and eedi and how to calculate.

What is the gm and how to make sure ship is in positive gm always.

Few more

Function 5

Avr

Scr

Thyristor

How to do megger test on alternator.

Precautions while doing the test

How does thyristor work ? What is firing ?

Acb and MCB maintenance

High voltage type of protection in the system

Neutral earth and insulated earth system.

How to make sure the battery is fully charged what all methods?

Do we add water to sulphuric acid or sulphuric acid to water? And why.

Reaction taking place in pb acid battery.

What is phase and what do you mean by lagging leading ?

Is there any phase difference in a resistor?

Few more

Function 3

Function 5

Coc

4/8/23

Function 3&5

Gadkar sir

Ship

Cargo hold fire detection in detail

Emergency Generator regulations

Rudder drop, how to measure where to measure

Loads on emergency Generator including names of navigational equipments

Gross weight and dead weight

Solas Chapter 12

All additional safeties on bulk carriers explain

How does Free Surface effect affect stability

What is GM, significance

Msb safeties

Alternator routine

All trips of Alternator

Classes of insulation and temperature and what does it mean

Exi and Exd

04/08/2023

Internal: Arbind Chaudhary sir

External: Gadkar sir

Function :3

Collision bulkhead & Corrugated bulkhead

Painting and pounding

Additional measures

Inclining experiment

Chemical tanker type

Difference than other ships

Classification

IBC Code

Sopep and Smpep

Marpol annex 1

Oil record book enteries

EEBD and SCBA difference(in detail)

Ism Code in detail

What guidance you get from emergency preparedness

DOC and SMC

Then he said let's move to function 3

Motor

Types of motor

What is open circuit

How will you detect open circuit in motor

Insulation types and temperature what happens with it

Then he moved to alternator

You are eto what will be your monthly routine (lot of cross questioning)

Power factor

Function -3 Pass

Function -5 Repeat

Function 6

Ext. Gadkar sir

Boiler water test

Hydraulic jack woking

Clorine level in boiler high

Overhaul of cylinder head

28/8/23

Gadkar Sir

Engine type

What do u mean by super long stroke

Tie rod function

Crank case inspection

Comperrsor discharge valve overhaul

Water hammering and types of steam traps

.....lots of cross questions

But clearance and how it is taken
Role of 4 eng during bunkering
Both repeat

Gadkar sir
Type of ship
Type of engine nomenclature
Why turbocharger
If overhauling ae what things will you update in nox technical file
Bottom end be@ring bolt what stresses and when change
Trickle charging
Checks on battery
Insulated earth system @dv@ntages

Gadkar sir
What type of ship
How many function you done
Safety life boat davit
What is gm
What is permeability of tank
Significant of gm
What is rudder drop
Carrier bearing wear down and how to measure
Safety of life boat davit
How many break
Non conformity in which convention it come
Collision bulkhead
Oprc ?
Sopep plan

Gadkar sir
Mep
Overhaul of pilot burner
Overflow of purifier
How we check liner wear down
Motor
Vit, super vit
Turbocharger
Washing
Shroud ring

noida 07.09.23
int mr kiran cs
ext mr Gadkar
Safety
9l foam extinguisher discharge creteria
torsion box

fse and methods
container fire fighting (un psn vol2 ems sunkay khush,, hydroopen)
Imdg code classes
Type of floors
type of floor used in er
What is smpep sopep contents
Solas chapter 9
Certificates of chapter, 9 Validity
Marpol annexes discharge creteria, sludge disc conn dimentions
collision bhd regulation
margin line xx floodable length
Mep
Cyl head overhaul
Fuel injector overhaul all tests, asked both slide and needle type injectors including parts,
both ae and me
aft bilge vv not taking suction, Leak test on line
sdnr vv overhaul , seat removal lapping, if seat cannt be repaired what will you do
piston calibration
pressure jet type bunnner overhaul, checks, clearances, x

Mmd noida
Internal - kiran sir
External- gadkar sir
Function 4 and 6
1.How many exams left
2.Vessel type
3.Engine type
4.Piston calibraton
5.AE cylinder overhauling
6.How will you remove valve seat
7.Heat treatment types.
8.heat treatment done on crankshaft .
9. F.o. Hot filter how will u chaneover and how will you know will one at present in use also
how will you clean it.
10.All Boiler safeties
11. Boiler pilot burner maintenance
12. Alpha lubrication
13. Pulse lubrication (sulzer rta)

Result COC ☐

6/10/23
Kiran Sir
Gadkar Sir (ext)
Motor
Type of engine
Lo test(procedure)
AE and ME lo difference

Boiler soot blow procedure
Function of tie rod
Elongation allowance in plate type and shell type heat exchanger
Type of injection system

Function 5
Power factor
How to improve PF
Current Transformer
Also what is the difference between Intrinsically Safe and Explosion proof

Safety fn 3,
Vessel sailed on
SMC
Marpol annex 4,6,7
Certificate onboard for different annex
Sewage discharge criteria
If no sewage treatment plant how would you discharge sewage
Rescue boat criteria
Which bwm system onboard and explain and cross questions
Entries in orb
And many more.
EXT-SS GADKAR
INT- KIRAN CS
SOPEP
COFFERDAM CROSS Q
ENCLOSED SPACE ENTRY PROCEDURE
WHAT GASES TO CHECK
ENTRIES IN ORB
WHAT IS NON AUTOMATIC AND AUTOMATIC DISCHARGE
STERNTUBE SEALING ARRANGEMENT
HRU HOW IT WORKS

nt kiran CS
Ext SS GADKAR
FUN 3
Cross curve stability
Enclosed space entry O2 content
Ism code detail
Sopep detail
Type of ship and related questions and more
marpol flange dimensions and use

Pass

10/10/23
Ext - ss gadkar
Fnc-3

Bulk carrier safeties

What is GZ

What is IMO

Types of floor

EEDI

SEEMP

Fnc -6

How to check slackness in chain

Boiler pilot burner overhaul

Cold repairs

Crankcase explosion. How to know going to happen? Precautions?

Scavenge space inspection.

Fn 3

Gadkar sir

Lifeboat safeties

Lifeboat launching

Centrifugal brake purpose

Lifeboat solas regulations

Non conformity

E/r flooding operation

Foam fire fighting regulations

Discharge criteria

Purpose of GM

12/10/23

Int gopikrishna c

Ext SS gadkar

Fun 4b

All indicator cards and their purpose

Pairing disc and gravity disc

Crankshaft deflection procedure

Accumulation pr test and hydraulic pressure test of boiler

Slack chain drive indications to watchkeeper

Chain tightening procedure

Holding down bolts

Centrifugal clutch

Thrust bearing and cross question

Fo order significant

Type of crankshaft (cross)

Heat treatment (crank shaft)

Safety in gauge glass

Turbocharger types

Diffuser (cross)

Accumulation pr test

Vibration

Pass

25/10/23

nt gopikrishna c

Ext SS gadkar

Fun 4b

All indicator cards and their purpose

Pairing disc and gravity disc

Crankshaft deflection procedure

Accumulation pr test and hydraulic pressure test of boiler

Slack chain drive indications to watchkeeper

Chain tightening procedure

Holding down bolts

Centrifugal clutch

Thrust bearing and cross question

Fo order significant

Type of crankshaft (cross)

Heat treatment (crank shaft)

Safety in gauge glass

Turbocharger types

Diffuser (cross)

Accumulation pr test

Vibration

Pass

MMD Mumbai

25/10/2023

Ext SS Gadkar

Int Gopikrishna

Function 4b,6

Main engine specification

Significance of each Letter in specification

what is superlong stroke

advantages of superlong stroke

Crankcase explosion safeties

Boiler safeties

What is caustic imbrittlement , How do you find out , what measures to take

How would you find sodium chloride content high in boiler water. What will you do incase of high level.

Boiler burner routines.

A/E crankcase inspection , Safeties prior inspection

why to do crankshaft deflection

Lub oil analysis onboard

FWG output irregular, reasons,what measures.

Cylinder LO properties.

Where is shroud ring, its function

how to do T/C washing

Result : Both Pass

MUMBAI MMD

EXT- SS GADKAR

FUN 5

Open circuit

Motor open circuit caused

Motor continuity test

Scr

Parraling of generators and cross que

What if synchroscope fails?

Since my ship was high voltage ship asked me about high voltage safety

Asked about GCB (gas circuit breaker) and cross que.

FUN 3

Type of ship

Torsion box cross que

Collision bulkhead regulation and cross que

Free surface effect

Effect of free surface effect

Ism

Non conformity

Gz curve

Hyper mist system

Rest forgot

Both fun 3 and 5 passed in first attempt. □

6/11/23

Ext: Gadkar sir

Fun 6

How to check AE bottom end brg bolts.

How to take out the valve and valve seat.

Routines on AE maintenance

When are bottom end brg bolta changed

Crankcase inspection

How to check the tightness of foundation bolts

Indication of T/C filter choking

How to adjust tappet clearance

Ext. Pravin kapale

Screw propeller

Balanced rudder

Anexx 1 certificate

Green house gases acc to kyoto

Motor

Bolier turn down ratio

Muff coupling
Moment of inertia
Sab kuch btaya phir bhi bola repeat both

28/11/23

int - praveen nair

Ext - ss gadkar sir.. □

fun... 6

thrust brg

gravity disc

blr gauge glass safety

a/e decarb

crankcase inspection.

checks in steering gear..

hunting lever

t/c . what checks during ur watch.. nd function of shroud ring & labrinth seal

Fn 4b

Int- praveen nair

Ext- Ss gadkar

Types of ship sailed

Type of main engine and explain all nomenclature

What is meant by Compact

Function of tie rod & cross questions

Function of diaphragm

Function of stuffing box

Function of paring disc

What is shroud ring

Ss gadkar sir

4b and 6

External vishwanathan sir

Ship details

Full of centrifugal pump

Tappet clearance

Bilge pump

Deck and er fire fighting system

Expansion ratio

Types of keel

All things opearted from control station

Annex 6 certificates and validity

Ism code and certificates

How to fight electrical fire in engine room

Int praveen sir

Ext ss gadkar

Coffer dam and its significance

Enclosed space entry xx
What metacentric height Significance of gm xx
Load line
Safety and environmental protection policy come under which regulation ?
28/11/23
Ss gadkar Sir
Boiler gauge glass safety
Ae crankcase inspection
Fuel injector maintenance and test
Type of me engine and specifications
Boiler blowdown procedure

16/3/24
Ss gadkar
Fn 5 and 3
Fittings in deck fire line
Isolation valve
Significance of gm
Sopep

Busbar
Alternater paralleling
Without synchroscope
Msb safeties
Transformer types and purpose

1/4/24
1/4/24

Gadkar sir

4b and 6
Type of ship
Firing order significance
Alpha lubrication system
Stuffing box work
Stuffing box overhaul
Diff in Puri and clarity
Use of gravity disc
Scavenge fire full
Aux engine crankcase inspections
Crankshaft deflection and why what significance
Rudder drop
Rudder clearance
Measuring tool for rudder drop
Dry dock inspection on rudder

What is jumping clearance
Boiler safety valve easing gear use
What type of turbocharger
How to wash (i told grit)
Piston Removal ME

More x ques

Types of t/c with cross
Fuel injection system
Decarb of piston
Boiler water test
Values of test results
Bilge system
Scavenge inspection
Tie rods

Purifier ques
Steering gear mechanism
Hunting gear

22/4/24

Fun 3
Static stability and dynamic stability
How to calculate it
Ism Code
How many chapters in it
Inclosed space
Entry procedure
When you say the entry safe in enclosed space
LEL

Fun 4b
Engine specifications
Types of fuel injection
Constructional difference between purifier and clarifier
Boiler safeties
How many safety valves
4s 2s constructional and thermal efficiency diff

22/4/24

Safety -
Carrying capacity of your container
What is racking
What is torsion box

Imdg container how to know

MsdS all

Enclosed space entry what to check while entering into bunker tank

Rest hrs work hrs

New surveyor

Internal Kiran

EXT dnt knw name(old guy)

Types of pump you know

Progressive cavity pump how it works

Gear/screw pump how to control discharge

Fwg principle and working

Refrigeration cycle explain

22/4/24

Ghadkar sir

Fn3

Annex 6 complete

Ism code complete

Enclosed space entry-Permits company procedure,

Static and dynamic stability, how to calculate

Nd some more