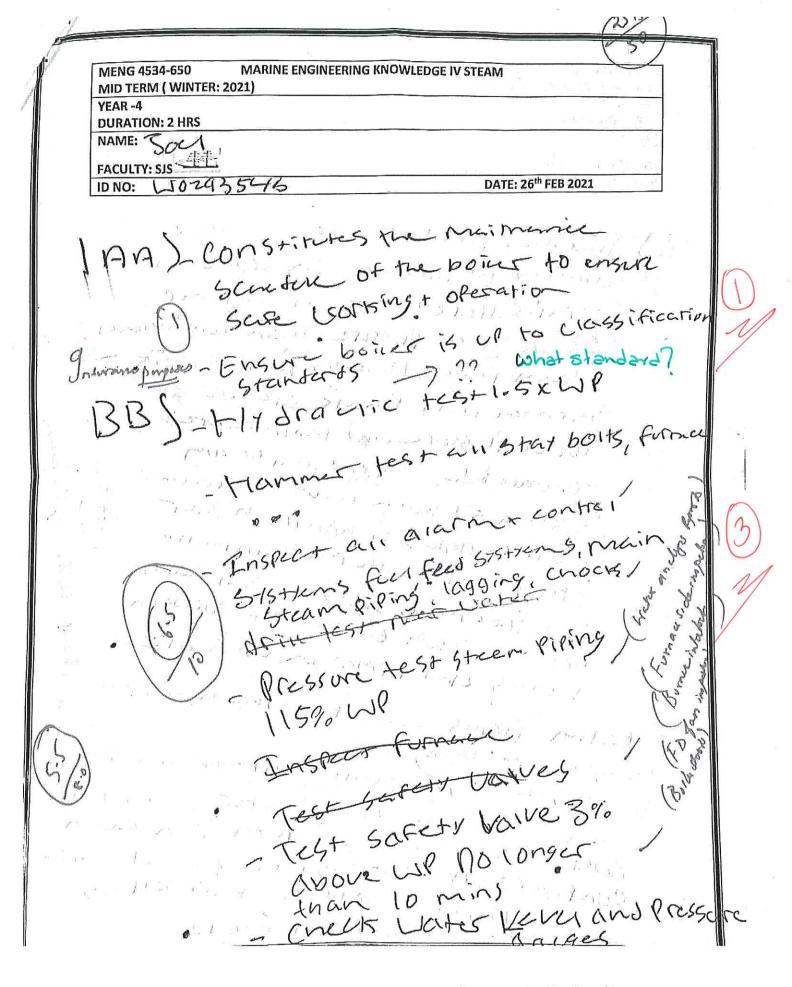
Reviewed	hy	Vikram
		IDAN -

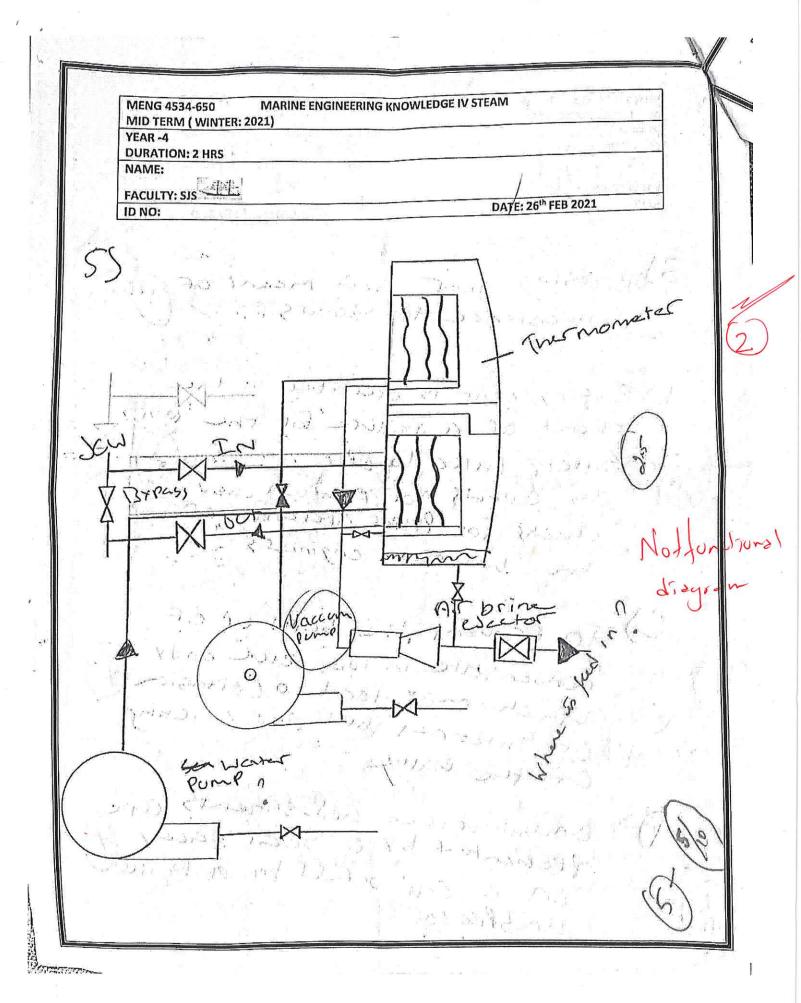
MENG 4534-650 MARINE ENGINEERING KNOWLED MID TERM ( WINTER: 2021)	DGE IV STEAM
YEAR -4	
DURATION: 2 HRS	
NAME: Soci	
ID NO: W 02435246	DATE: 26th FEB 2021
IDNO. VOCE 177	
PASS CRITERIA: Answer all the 5 questions out of 6 below. Each must be answered.	
NOTE: Must be written in Pen (Black Ink -Preferred). Use only	the provided Plant Streets, Number 17.
sheets. Drawings must be in Pencil.	
Reference Water Tube Boiler Survey,     AA) Give reasons to have the Marine Boiler surveyed by the BB) List the checks that are usually done on a Marine Boile.	ne Class society?2 er during a Class Survey8
Compare Thermal fluid plant with conventional steam produced disadvantages of each of the system	plant mentioning advantages and
3) With reference to boiler safety valves:	
<ul> <li>a) state the meaning of the term easing gear;</li> <li>b) state the circumstances under which the easing gear</li> <li>c) state the purpose of the open drain on the valve bot</li> <li>d) state how unauthorized adjustments are prevented.</li> </ul>	dy;2
<ol> <li>With reference to directly mounted boller water level gate.</li> <li>Explain the effect on the indicated water level in EAC</li> </ol>	uges: H of the following cases:
(i) blockage at water connection;2	6
/iii blockage at steam connection2	
B) Describe the procedure to prove that the gauge is fun	ctioning correctly6
<ol> <li>Sketch &amp; Describe the working of a fresh water generator system heat for evaporator. (Fresh Water Generator)——</li> </ol>	not a functional
5) List the procedure to put the marine water tube boiler in c	old state back on service after class
survey10	

(x) Knowlege, understanding not up the mark for a 4th year student.



MARINE ENGINEERING KNOWLEDGE IV STEAM MENG 4534-650 MID TERM (WINTER: 2021) YEAR -4 **DURATION: 2 HRS** 1 35 NAME: FACULTY: SJS DATE: 26th FEB 2021 ID NO: 2) Therman field Plants have the ability to operate In subzerofifil Port temperatures los very as pimp Cet a lower pressure than conventioner Steem Plants lowering Pumping costs/ Juran Filid Plants Operate at 10 Ver Pressure and temperatures Compared to contintionan steam wall thickness to nandle higher Stress work mechanicans and theornal. Therman Field Plants have a lower viene of corrosion fouring and formation of scare Steam Plants were the advantages of: igh availability of he water night availability of Water, Low inited cost steam prents are more comprex in configuration/(atout. as her as well as the ability to hold heet as well as

MENG 4534-650 MARINE ENGINEERING KNO MID TERM ( WINTER: 2021)	WLEDGE IV STEAM	
YEAR -4 DURATION: 2 HRS		
NAME:	6.2	
FACULTY: SJS	DATE: 26 <sup>th</sup> FEB 2021	
ID NO:		
3) Of Easing good is Convenience to	of meun of	(
Convenience		
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b) Easing year is o event of a fai	perated (1)	
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event or a to	plen as very 80 - 00	
event of a faire to safety valve to checks for Property valve b	regarden easy	
as allows to	- Operation of (01)	
checks for	y engineers	
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Waich	lead to Corrasion () lead to Corrasion () parts and sticking	
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MENG 4534-650 MARINE EN MID TERM ( WINTER: 2021)	IGINEERING KNOWLEDGE IV STEAM	
YEAR -4	TO WEED GE IV STEAM	
DURATION: 2 HRS		
NAME:		
FACULTY: SJS		
ID NO:		
	DATE: 26th FEB 2021	

frost Water is evaporated

Sea water is evaporated to make for the water. The heat source used (2) for this process is JCW Jacket cooling for this process is usually around 70°C water with is usually around 70°C around to create a vaccum pumple is used to create vaccum in the chamber in which vaccum in the chamber in which evaporization takes place.

6) Ensure an tools are ciral out
OF Formace

Ensure an interner serfaces are

Clear

Clear

Crear an gaskers for boiler mountiss

Check burner, air dampet geten.

Check burner, air dampet geten.

