Final Exam

A. Fill in the gaps with one of the words below. There are three extra words. (20 points)

ullages   viscosity   drain   ignition   standard   residues   provisions

ventilation   deposits   flash point   discharge   observed   pour point

-- The function of the bilge system is to _____ any watertight compartment other than ballast, oil or water tanks and to _____ the contents overboard.

-- The most important measurements during bunkering refer to soundings, _____ and temperatures.

-- Sulphur, carbon _____, ash and water are all harmful materials in the fuel oils.

-- Cetane Number indicates the _____ quality of a fuel oil.

-- The Chief Engineer should sign the bunker delivery note for volume at _____ temperature.

-- Fuels with a _____ of less than 60 degrees Celsius are not permitted by SOLAS.

-- The _____ of any petroleum oil increases when the oil is cooled and decreases when it is heated.

-- Natural _____ occurs when changes in temperature or air density cause circulation in a space.

-- Lifeboats must carry sufficient _____ for survival for a reasonable period of time.

B. Fill in the gaps with one of the words below. There are three extra words. (20 points)

exceed   particles   frequency   scraped   improves   inappropriate   fitted
clearances   thoroughly   contaminate   overhauled   occurs   minimize

--The engine should be _____ at regular intervals.

--The _____ of various maintenance jobs depends on the condition of the relevant parts.

--The use of _____ tools may damage the engine.

--If engine components are filed or _____, they must be _____ cleaned after the completion of the job.

--The _____ of all essential parts must be checked often.

--Abrasive wear _____ when hard _____ enter the combustion space.

--To _____ the formation of acids keep cylinder liner temperatures above the dew point.

--Liner wear rates should not _____ approximately 0.0075 mm per 1000 running hours.

C. Fill in the gaps with an appropriate form of the words in parentheses.
   (15 points)

--The dimensions of this part need _____. (readjust)
--You should keep the engine in operational _____. (ready)
--Check the _____ play. (axis)
--This part has been damaged by _____ wear. (corrode)
--The oil film should have the right _____. (thick)
--It is _____ to have low fuel consumption. (significance)
--The second asked me to check the _____. (align)
--You should be very careful when you sign the bunker delivery _____.
(receive)
--Mud boxes should be easily _____. (access)
--Many accidents are the result of _____. (care)
--What are the _____ of this engine? (specify)
--The dimensions of these parts are no longer within the _____ limits.
(admit)
--There is a _____ (vary) of lubricants to choose from.
--The contaminated fuel caused _____ (consider) damage.
--You need the Chief Engineer's _____ (approve) for this.

D. Match the words in column A to their synonyms in column B (10 points)

A	B
block	often
appropriate	little by little
regularly	opening
nearby	jam
clearance	rub off
bore	before
replenish	suitable
abrade	refill
gradually	play
prior to	adjacent

E. Put the verbs in the correct tense (10).

-- If the ship _____ (sail) tonight, I will not be able to see you.
-- When you heat water to 100 degrees Celsius, it _____ (boil).
-- If I _____ (be) you, I would accept the position of 2nd engineer on the M/V 'ANDROMEDA'.
-- If you moor the ship correctly, she _____ (not/move) away from the quayside.
-- Accidents wouldn't happen if the crew members _____ (not/be) so careless.
-- If the vessel sails now, she _____ (arrive) in Venice in two days' time.
-- If there were any crew members missing, they _____ (report) it.
-- Fiona wouldn't be able to translate for me if she _____ (not/speak) Italian so well.
-- What _____ (you/buy) if you had a million dollars?
-- I would have more time for my hobbies if our teachers _____ (not/give) us homework.

G. Choose _either_ a _or_ b   (25 points)

a. Write a short passage (approx. 100 words) about crankshaft deflections. More specifically, you should refer to why, when and how you take deflections as well as to any factors that affect the whole procedure and the recorded readings.

b. During your voyage you had a problem with the fuel oil pumps. Write a formal letter to the Superintendent Engineer of the shipping company to inform him about the measures you took to find the cause of this problem and solve it.

Good Luck !