

題號	解答	題目	選項1	選項2	選項3	選項4
1	A	柴油機船輪機日誌的『氣缸冷卻水』其英文為：	Jacket cooling fresh water	Piston cooling fresh water	Turbo cooling fresh water	Scavenging cooling fresh water
2	A	The longer an oil fire burns, the _____.	harder it is to be extinguished	easier it is to be extinguished	less chance there is of reignition	easier it is to be controlled
3	B	Increasing the temperature of a fuel _____ its viscosity.	increases	reduces	keeps	boosts
4	C	Which of the following materials is a good thermal insulator?	steel	aluminum	glass	copper
5	D	Each page of the oil-record-book must be signed by the _____.	engineer on watch	chief engineer	chief mate	master
6	B	The cleaned and heated oil, after passing through the purifier, is pumped into a _____.	settling tank	service tank	drain tank	storage tank
7	A	Current changing in direction with rising and falling amplitude is _____.	AC (Alternating current)	DC (Direct current)	generator	fresh water generator
8	B	Fix the fuel injector on after _____ it is repaired.	the cylinder liner	the cylinder cover	the cylinder jacket	the piston
9	D	Connecting rod in a diesel engine is used to connect the _____.	engine to the bed	rocker arm to the camshaft	crankshaft to the gear	piston to the crankshaft
10	A	柴油機船輪機日誌的『制動馬力BHP』其英文全文為：	Brake horse power	Basket horse power	Build horse power	Booster horse power
11	A	Wear in parts that operate the exhaust valve will tend to _____ the tappet clearance.	increase	reduce	shrunk	decrease
12	C	Having warmed the engine, the turning gear is _____ before the engine is to be started.	engaged	put in	disconnected	put up
13	A	After the order of _____ is given, the air system is shut down and the turning gear is connected.	finish with engine	stop the engine	stand-by engine	slow-down engine
14	C	柴油機船輪機日誌的『掃氣溫度』其英文為：	exhaust gas pressure	exhaust gas temperature	scavenging air temperature	scavenging air pressure
15	D	The distance from top-dead-center (TDC) position to bottom-dead-center (BDC) position of the diesel engine is called _____.	gap	clearance	radius	stroke
16	B	For an ordinary four-stroke diesel engine, the intake valve opens _____.	after TDC (Top dead center)	before TDC (Top dead center)	after BDC (Bottom dead center)	before BDC (Bottom dead center)
17	C	Emulsification of lubricant oil will occur when the lubricant oil is mixed with _____.	air	fuel oil	water	cream
18	D	Fuel is admitted to a cylinder of diesel engine through the _____.	intake valve	carburetor	exhaust ports	injector nozzles
19	B	The oil cooler is circulated by sea water, which is operated _____ than the oil?	with a higher pressure	at a lower pressure	no more pressure	in a greater pressure
20	C	The period when both intake and exhaust valves open is referred to as "_____".	valve loop	valve uniflow	valve overlap	valve grinding
21	B	Charging is a process of the diesel engine that supplies _____ into cylinder for compression.	water	fresh air	fuel oil	gas

22	A	Before a piston is to be replaced, it is required to check that all piston rings should be _____ .	free	fastened	stuck	jammed
23	D	The oil is drawn from a drain tank through _____ , one of a pair of pumps, into one of fine filters.	a strain tank	a head tank	a service tank	a strainer
24	B	Due to temperature rise, the volume of fuel oil in tanks will	remain the same	increase	decrease	shrunk
25	D	A four-stroke engine takes _____ to make one power stroke.	one propulsion	two propulsions	one revolution	two revolutions
26	C	All class of fires can be safely combated using?	Foam	Low velocity water fog	CO <sub>2</sub>	High velocity water fog
27	B	The three basic elements necessary for any fire are _____ .	heat, gas and flame	fuel, heat and oxygen	heat, nitrogen and fuel	fuel oil, nitrogen and oxygen
28	A	At least _____ cylinders in a two-stroke engine are required in order to ensure that the engine can be started.	4	6	8	12
29	D	Cylinders of low-speed marine propulsive diesel engine are usually cooled by _____ .	sea water	fine mineral oil	sanitary water	fresh water
30	C	The cylinder and piston must be warmed up _____ to a temperature of about 65°C in stand-by engine.	repeatedly	quickly	gradually	immediately
31	B	柴油機船輪機日誌的『推進器葉距』其英文全文為：	Propeller blade	Propeller pitch	Propeller edge	Propeller trail
32	A	A manometer measures _____ .	air pressure	oil pressure	seam pressure	water pressure
33	C	Diesel fuel oil, having a low cetane number, can result in _____ .	improved cold weather	smoother engine operation	combustion knock	reduce ignition lag
34	C	_____ scavenging means that both exhaust and scavenging ports are arranged on a same side of cylinder.	Uniflow	Cross	Loop	Straight
35	B	Usually, “gauge pressure” means _____ .	vacuum	the excess of pressure above atmosphere	absolute pressure	mean effective pressure
36	A	Diesel engine uses the exhaust gas to drive a turbo-charger in order to supply the pressurized fresh air for _____ and supercharging.	scavenging	starting	cooling	blowing
37	D	The _____ chamber is enclosed between the cylinder head and	lubrication	injection	cooling	combustion
38	C	柴油機船輪機日誌的『推進器直徑』其英文全文為：	Propeller pitch	Propeller radius	Propeller diameter	Propeller blade
39	A	The _____ is used to measure the volume of a liquid or gas through a pipeline within a pre-defined period of time.	flowmeter	viscosimeter	micrometer	feller
40	D	What occasion should the scuppers be plugged?	Only if fixed containment is not used	Only if portable containment is not used	Only if fixed containment drain is open	Whenever the vessel is being bunkered
41	D	Cooling of cylinder liner is often referred to as _____ cooling.	piston	sleeve	central	jacket
42	D	柴油機船輪機日誌的『M.V.』其英文全文為：	master vessel	motor victory	master victory	motor vessel
43	B	柴油機船輪機日誌的『F.W. generator』其中文解釋為：	淡水指示計	淡水製造機	淡水發電機	淡水循環機
44	B	Prior to any overhaul work involving electric equipments, it is important to ensure that the circuits are _____ .	connected	disconnected	excited	on line
45	C	The crankshaft should be turned by means of _____ to check if all the engine parts move freely.	a steering gear	a chain gear	a turning gear	a servo motor

46	B	A dirty oil filter element is usually checked out by _____ .	visual inspection of the elements	the pressure drop across the filter	high lube oil sump temperature	the decrease of oil viscosity from the filter
47	C	The ignition of fuel in a diesel engine is triggered by which physical property of the compressed air that is previously admitted into the cylinder.	vacuum pressure	specific gravity	heat	viscosity
48	B	Prior to starting a marine diesel engine, the cylinders and pistons must be _____ .	cooled to appropriate temperature	gradually warmed up	opened up and renewed	ground and polished
49	A	In a _____ scavenging system, the incoming air is directed upwards with the exhaust travelling in the downward direction and flowing out of the exhaust ports located on the opposite side of the cylinder.	cross	loop	aspirate	uniflow
50	B	The lubricant oil in the bearing is drawn from a _____ , usually located in the bedplate of the diesel engine.	heater	sump	cooler	bottle
51	A	The supercharger takes air out of the surrounding atmosphere and then feeds it to the engine's _____ .	intake valve	exhaust valve	starting valve	injection valve
52	C	The unit of electrical power is the _____ .	ampere	volt	watt	farad
53	C	What is used to measure the clearance of main bearing?	Pressure gauge	Dial gauge	Bridge gauge	Power meter
54	A	The measuring instruments for electric current always connects in _____ .	series with a circuit	parallel with a circuit	series-parallel with a circuit	delta with the shunt
55	D	The unit of electrical resistance is _____ .	ampere	volt	watt	ohm
56	D	Diesel oil may be used to cool the _____ of a diesel engine.	cylinders	exhaust valves	pistons	fuel valves
57	D	Fuel is delivered into the combustion chamber by _____ .	a cooling system	a lubricating system	an electric system	an injection system
58	C	柴油機船輪機日誌的『S.W.』其英文全文為：	service waste	sea waste	sea water	service water
59	D	柴油機船輪機日誌的『氣缸直徑』其英文全文為：	cylinder liner	cylinder jacket	cylinder radius	cylinder diameter
60	B	The cylinder cover is not provided with _____ .	fuel valve	lubricator	indicator valve	starting valve
61	A	For an ordinary four-stroke diesel engine, the exhaust valve closes _____ .	after TDC (Top dead center)	before TDC (Top dead center)	after BDC (Bottom dead center)	before BDC (Bottom dead center)
62	B	柴油機船輪機日誌的『活塞冷卻水』其英文為：	Jacket cooling fresh water	Piston cooling fresh water	Turbo cooling fresh water	Scavenging cooling fresh water
63	D	To synchronize two A.C. generators requires their voltages to be _____ and in phase.	zero	eliminated	different	equal
64	D	Electrical power is expressed in terms of _____ .	ohms	volts	amps	watts
65	C	_____ supplies the pilot-air to control the air-starting valve on each cylinder.	An air compressor	An indicator cock	An air distributor	A safety valve
66	D	The driving force of a propeller is transmitted to the hull through the _____ .	bevel gear teeth	helically cut gear teeth	sleeve bearing	thrust bearing

67	B	When is fuel injected into a cylinder of diesel engines ?	before air in the cylinder is compressed	after air in the cylinder is compressed	after combustion gases in the cylinder have expanded	as air is taken into the cylinder
68	B	The fuel injection pump is driven by ____ ,which drives the plunger up and down?	a separator motor	a cam	a centrifugal pump	a chain
69	B	At least ____ cylinders in a four-stroke engine are required in order to ensure that the engine can be started.	4	6	8	12
70	C	柴油機船輪機日誌的『salinometer』其中文解釋為：	同步指示計	調節指示計	鹽度指示計	海水循環計
71	A	A manometer is used to measure_____.	pressure	temperature	volume	specific gravity
72	C	“Stand by engine” means to ____ .	prepare to stop the engine	assemble an engine on its bedplate	make an engine ready for starting	dismantle an engine
73	A	The reciprocating motion of a connecting rod is transformed into a rotary motion by the_____.	crankshaft	crank cheeks	crank webs	crankpin
74	B	When_____is compressed, its temperature rises so that the fine spray of diesel fuel injected into the cylinder is ignited?	the oil	the air	the fresh water	the steam
75	A	When combating a major electrical fire at open sea, the main consideration is to _____ .	reduce the possibility of electrical shock to any personnel	prevent a total loss of electrical power	prevent saltwater damage to electrical equipment	eliminate the toxic fumes from burning insulation
76	D	An indicator diagram is a pressure-volume graph taken from the pressure in the _____ of a running engine.	crankcase	fuel pump	scavenging trunk	cylinder
77	B	What is used to separate water and foreign matters from the fuel oil?	Compressor	Purifier	Evaporator	Receiver
78	A	The starting air in the receiver is supplied by the_____.	air compressor	refrigeration compressor	vacuum pump	purifier
79	C	The space between cylinder liner and jacket is called the_____.	circulating tank	scavenge box	cooling water space	cooler
80	C	Lubricant oil filters remove contaminants more efficiently if the oil-bearing filtered is _____.	under high pressure	under low pressure	heated to reduce viscosity	cooled to increase viscosity
81	C	The company should ensure that the _____ documents are promptly removed.	absolute	updated	outdated	new
82	C	For an ordinary four-stroke diesel engine, the intake valve is closed _____.	after TDC (Top Dead Center)	before TDC (Top Dead Center)	after BDC (Bottom Dead Center)	before BDC (Bottom Dead Center)
83	B	What term is used to describe the loss of combustion pressure due to worn rings and liners ?	blowback	blow-by	blowdown	blowup
84	C	Which fire fighting agent has the greatest capacity for absorbing _____	water	dry chemical	foam	CO2
85	D	A diesel engine is similar to a gasoline engine, except that the former has no _____.	cross-head	cylinder	connecting rod	sparkling plug
86	B	Be sure to turn the engine using the _____ before starting an engine.	steering gear	turning gear	steering wheel	turning cycle
87	C	柴油機船輪機日誌中的『國籍證書』，其英文全文為何？	Signal letters	Port of registry	Nationality certificate	Classification certificate
88	D	柴油機船輪機日誌中的『指示馬力』，其英文全文為何？	Internal horse power	Induced horse power	Interacted horse power	Indicated horse power

89	B	When the engine speed slows down, the governor will ____ the engine fuel pump setting.	increase	reduce	keep	rise
90	B	Blue smoke coming from the diesel exhaust would indicate _____.	excessive fuel consumption	burning of lubricant oil due to possible blow-by	lean fuel/air mixture, too much air	lean fuel/air mixture, too much fuel
91	B	The pressurized air is usually cooled to increase the _____ of charging air.	viscosity	density	velocity	electricity
92	B	What is the foundation of engine and the shaft alignment and engine structure as a whole would inevitably be lost without it?	frame	bedplate	cylinder	liner
93	D	Expansion tank could be used to remove the _____ from cooling water.	scale	sludge	chemicals	air
94	B	柴油機船輪機日誌中的『淨噸位』，其英文全文為何？	Gross tonnage	Net tonnage	Light draught	Loaded draught
95	C	柴油機船輪機日誌中的『Frequency』，其中文解釋為何？	同步	調節	頻率	變頻
96	D	柴油機船輪機日誌中的『Power factor』，其中文解釋為何？	同步因素	調節因素	功率調節	功率因數
97	C	The thrust block _____ the thrust from the propeller to the hull of the ship.	conducts	fits	transfers	carries
98	C	A constant output voltage from an AC generator is ensured by the _____.	prime mover governor	exciter generator	voltage regulator	reverse power relay
99	B	Which class of fire would probably occur in the engine room bilges?	class A	class B	class C	class D
100	B	What is the function of thrust bearing?	Preventing lateral movement of the slow speed gear.	Transmitting propeller thrust to the hull.	Keeping spring bearing in line.	Preventing axial movement of main reduction gear.
101	B	The main moving parts of a diesel engine consist of the and the pistons?	bedplate, connecting rods	crankshaft, the connecting rods	frames, crossheads	crankshaft, the cylinder
102	C	When the order “ ” is received from the bridge, the main air stop valve should be shut.	stand-by engine	full ahead	finished with engine	ring off engine
103	A	Electric insulator is made of organic substances which gradually with age.	deteriorates	increases	becomes better	flushes
104	A	Fresh water is used to cool the cylinder jackets and of a marine diesel engine.	cylinder cover	lubricating space	crosshead	exhaust manifold
105	A	柴油機船輪機日誌中的『L.O.』，其英文全文為何？	Lubricating oil	Loss oil	Low pressure oil	Lower oil
106	A	Ammeter is to measure the _____.	current	voltage	power	frequency
107	D	The fuel service tank should be drained to release before the fuel oil is use	sode solution	mechanical impurities	ballast	water and residuals
108	C	The diesel engine is a type of .	turbine engine	steam engine	internal combustion engine	external combustion engine
109	C	What is the distance between the bottom of hull and the waterline?	tonnage	reserve buoyancy	draft	freeboard

110	A	High exhaust temperature and black smoke exhausting from an auxiliary diesel engine can be caused by _____.	engine overload	low combustion temperature	plugged fuel nozzle holes	excessive compression pressure
111	B	The turbo-blower comprised a gas turbine and a _____.	condenser	blower	soot blower	air receiver
112	B	What cause could produce "white smoke" after starting the diesel engine?	Engine stuck	Water in the fuel	Too low of starting air pressure	Too high of starting air pressure
113	A	柴油機船輪機日誌中的『F.W.』，其英文全文為何？	Fresh water	Fuel water	Full water	Fuel waste
114	C	In a diesel engine closed cooling system, the flow of fresh water through the fresh water and the lube oil coolers is controlled by the _____.	speed of the engine	speed of the pump impeller	automatic temperature regulator	suction pressure regulator
115	C	A controllable pitch propeller of a diesel-driven vessel eliminates the need for _____.	friction clutches	disconnect clutches	reversing gears	reduction gears
116	B	柴油機船輪機日誌中的『活塞冷卻油』，其英文為何？	Jacket cooling lubricating oil	Piston cooling lubricating oil	Turbo cooling lubricating oil	Scavenging cooling lubricating oil
117	A	柴油機船輪機日誌中的『總噸位』，其英文全文為何？	Gross tonnage	Net tonnage	Light draught	Loaded draught
118	A	柴油機船輪機日誌中的『F.O. Consumption T.』，T.英文全文為何？	Metric ton	Mass ton	Meter ton	Master ton
119	D	In a diesel engine, the main bearings are mounted between the _____.	connecting rod and the crankshaft	wrist pin and the connecting rod	camshaft and the engine block	crankshaft and the engine block
120	B	The three basic elements necessary for any fire are _____.	heat, gas and flame	fuel, heat and oxygen	heat, nitrogen and fuel	fuel oil, nitrogen and oxygen
121	C	_____ is sometimes used for piston cooling since its leakage into the crankcase would not cause additional problems.	Diesel oil	Hydraulic oil	Lubricant oil	Mineral oil
122	A	For a turbocharged diesel engine, the lack of combustion air may be caused to the _____.	fouling turbine	fuel pump faults	lubrication failure	excessive cooling
123	B	For an ordinary four-stroke diesel engine, the intake valve is opened _____.	after TDC (Top dead center)	before TDC (Top dead center)	after BDC (Bottom dead center)	before BDC (Bottom dead center)
124	C	For the two-stroke engine, each revolution of _____ makes one power stroke.	the turning gear	the turbo-charger	the crankshaft	the compressor
125	A	下列何者與葉片構成船用螺槳？	轂 (Boss)	葉根 (Blade root)	圓錐體 (Cone cylinder)	油壓螺帽 (Hydraulic nut)
126	B	柴油機船輪機日誌中的『Total heating surface』，其中文解釋為何？	最大膨脹度	最大受熱面積	最大燃燒度	最大循環度
127	C	The cylinders, with cooling jackets, are _____ to the engine frame by eight tie rods.	screwed	welded	fastened	rotated
128	A	How do you set off a portable CO <sub>2</sub> (Carbon dioxide) fire extinguisher with a squeeze grip type release valve?	push upper handle down	open handle wheel	pull lower handle up	pull upper handle up
129	C	The propellant in a dry chemical fire extinguisher is _____.	compressed air	sea water	CO <sub>2</sub>	foam

130	D	Generating tubes in waste heat boilers are beneficial to ____.	reduce gas flow turbulence	prevent exhaust gas corrosion	increase the rate of combustion	increase the area of heat transfer
131	C	The viscosity regulator controls _____ in order to provide oil at the correct viscosity for combustion.	the engine' s speed	the engine' s load	the fuel oil temperature	the fuel oil flow
132	C	What device shall be disconnected before starting up the engine?	air distributing valve	cam shaft	turning gear	exhaust valve
133	C	What kind of spanner is the one-piece spanner with an enclosed opening that grips all the faces of a bolt or nut?	Open-end	Socket	Ring	Adjustable
134	D	What is the device used to tighten and seal a hose onto a fitting such as a barb?	screw	grindstone	washer	hose clamp
135	A	What is the common and handy measuring tool with the flexibility allowing for a measure of great length even with curves?	measuring tape	caliper	multimeter	solder
136	D	下列那句最接近 ” Fix the mounting-leg bolt” 的意思？	拆下消音器	裝上渦輪側板	拆下封板	裝上支架腳螺栓
137	A	In the case where the turbocharger is in trouble, what type of operation shall be undertaken with reduced loads?	non-supercharged running	full speed running	astern operation	starting engine
138	B	If the exhaust temperature exceeds the limit stated in the Records of Ship Trial, what action shall be undertaken?	increase the engine speed	decrease the engine speed	maintain the enging speed	stop the engine
139	A	What tool is designed primarily for gripping objects by using	pliers	screwdriver	hex key	drill
140	A	What event will take place if the fresh air enters into the engine to ignite oil mist?	explosion	stoppage	misfiring	flooding
141	B	What could be the consequences if the safety devices are used wrongly?	engine break down	serious accident resulting in injury	thermal efficiency impediment	overall power output enhancement
142	B	What device is designed to prevent accidents?	lifting device	safety device	proper device	operating device
143	A	艙側推進器螺槳軸的密封裝置，其軸封多採用下列何種型式？	Simplex Lip Seal	Deep Seal	NBR Seal	O Ring
144	B	To handle the material containing asbestos, what precaution has to be followed?	Wear glasses during the work.	Wear the dust mask during the work.	Wear gloves during the work.	Use compressed air to clean the material.
145	D	What is the mechanical screw apparatus used to hold the workpiece in order to perform works on it with a saw?	saw	file	socket wrench	vise
146	B	下列那句最接近 「盤俵用棘輪手柄」 的意思？	Double-ended wrench	Ratchet handle for turning	Socket for turning	Single-ended wrench for adjust bolt
147	B	What cause may produce “white smoke” after starting the diesel engine?	sulfur in the fuel	water in the fuel	too low starting air pressure	too high starting air pressure
148	B	What unit is suitable to express the size of a cylinder bore?	kPa	mm	hp	kg
149	B	下列那句最接近 ” Adjustment of suction valve clearance” 的意思？	粗濾器蕊子清洗	進氣間隙調整	燃油細濾器清洗	燃油噴射正時調整

150	A	Which document is used to specify the normal hours of services for determining the interval of maintenance required by the machinery components?	maintenance manual	operation manual	instruction manual	engine book
151	B	To examine sufficiently the work procedures in advance of maintenance for an engine, what shall be read?	gauge readings	operation manual	thermometer	pipe chart
152	A	To prevent hearing damage, what shall be worn in the engine room?	ear protection	eye protection	knee protection	elbow protection
153	B	What dimension is suitable to express the size of a cylinder bore?	liter	mm	rpm	kg
154	D	In addition to the compression ring, what type of piston ring is also in general use?	plate ring	pin ring	rack ring	oil ring
155	B	Which component is white metal-lined?	the piston ring	the crosshead shoe	the propeller	the crank shaft
156	D	下列那句最接近「主軸承是由鋁合金製成」的意思？	The main bearing is a stamp forgings.	The main bearing is made of cast iron.	The main bearing has been hardened together with pins.	The main bearing is made of aluminum alloy.
157	A	下列那句最接近「旋緊螺栓」的意思？	Screw the bolt tightly.	Loosen the lock nut.	Loosen the bolt.	Screw the belt tightly.
158	B	下列那句最接近” Detach the turbine-side keep plate” 的意思？	拆下消音器	分離渦輪側板	拆下封板	裝上支架腳螺栓
159	C	What device can be used to detect the suction/exhaust valve	thermometer	screw drive	feeler gauge	pressure gauge
160	D	What shall be opened to bleed air from a fuel oil filter?	pipe	nut	thread	cock
161	C	Which operation could incur the danger of catching fire due to the generation of hydrogen gas?	oil filling	gas filling	battery charging	air charging
162	D	What type of spanner has a “jaw” that allows for different size nuts and bolts to be handled by the same spanner?	ring spanner	open-ended spanner	box-ended spanner	adjustable spanner
163	A	下列那項是「示功閥」的意思？	indicator valve	intake valve	intake valve seat	starting valve
164	A	What is generally designed to avoid the exposure of fire to the air and to cool the fire as well?	fire extinguisher	fire alarm	fire detector	flare gun
165	D	What dimension is used to define the mass of an engine?	liter	mm	rpm	kg
166	A	柴油機船輪機日誌中的『Max evaporation』，其中文解釋為何？	最大膨脹度	最大蒸發量	最大燃燒度	最大循環度
167	B	What physical property of the charged air is attempted to be increased by cooling the pressurized air?	viscosity	density	velocity	electricity
168	D	What is the tool that uses a hard blade to cut through the softer materials?	saw	file	socket wrench	vise
169	B	What is the device with a shaft and a helical thread on its surface with provision on one end to turn it?	screw	grindstone	washer	hose clamp
170	D	下列那句最接近” How many sludge tanks do you have?” 的意思？	有幾個污油櫃？	修理要多久？	高多少度？	共有幾個樣品？
171	D	What is the document that specifies the abbreviations and rating plates for the machinery?	engine logbook	operation manual	data logger	noon report

172	D	What action shall be taken if the cooling water is considerably deteriorated?	change water	refill water	dilute water	block water
173	A	What is not in compliance with the general guidelines for placing fire detectors?	Provide at least one detector in each elevator.	Locate the detector as close to the center of the ceiling.	Place a detector at the bottom of each flight of stairs.	Allocate all smoke detectors at least three feet from ceiling fans.
174	A	What is the status of the engine protection device prior to starting up the engine?	power off	idle	stand by	power on
175	C	What is the device with a thin plate in the typical disk-shape and a hole for distributing the load of a threaded fastener?	saw	screw	washer	hose clamp
176	D	What system is generally used to recover the residual heat from the exhaust of the propulsive diesel engine?	variable pitch of propeller	nuclear engine	gas turbine engine	steam power plant
177	A	下列那句最接近「曲軸是鍛造而成」的意思？	The crankshaft is forged.	The crankshaft is made of cast iron.	The crankshaft has been hardened together with pins.	The crankshaft is made of aluminum alloy.
178	C	The fresh air, coming in through the air ports of liner, is compressed by _____ to a high pressure.	the cylinder head	the cross-head	the moving piston	the stationary piston
179	A	A monitor of so-called "oil-in-water" meter is required to measure _____.	the oil content in water	the water content in oil	the water level in bilge well	the oil level in bilge well
180	C	What device can maintain the constant output voltage from an AC generator?	prime mover governor	exciter generator	voltage regulator	reverse power relay
181	D	How many revolutions are required for a four-stroke engine to complete one thermodynamic cycle?	three revolutions	four revolutions	one revolution	two revolutions
182	C	What is normally measured by a pyrometer?	the fuel pressure of a diesel engine	the fuel temperature of a diesel engine	the exhaust gas temperature of a diesel engine	the exhaust pressure of a diesel engine
183	A	What device is designed to save the lives of on board people in case of emergency at sea?	lifeboat	fire-extinguisher	multimeter	solder
184	B	下列那句最接近「氣缸體由鑄鐵製成」的意思？	The cylinder is a stamp forgings.	The cylinder block is made of cast iron.	The cylinder block has been hardened together with pins.	The cylinder is made of aluminum alloy.
185	A	What is the box structure made of cast iron employing the double wall system which integrally cast the cam case, charge manifold and main cooling water gallery?	cylinder block	piston rod	turbocharger	exhaust manifold
186	D	Prior to starting the diesel engine, what is the appropriate setting for the turning gear?	Gear on	Press	Finish	Gear out
187	C	During welding and grinding, what will be spread to cause fire?	jets	noise	sparks	mist

188	D	Before attempting to restart the engine, what action shall be carried out to discharge the gas system?	pressure test	leakage stop	water draining	air running
189	C	The exact location of a vessel's fire hydrant and associated equipment is indicated on the _____.	certificate of inspection	bridge card	fire fighting plan	sea water service piping plan
190	A	What is the connecting manner for the measuring instruments to be installed for detecting the electric current in a circuit?	connect in series with a circuit	connect in parallel with a circuit	connect in series-parallel with a circuit	connect in delta with the shunt
191	B	What is the foundation of an engine, without which the shaft alignment and engine structure as a whole would inevitably be lost?	frame	bedplate	cylinder	liner
192	D	What kind of spanner has a "jaw" which is of adjustable size?	Open-end	Box-end	Ring	Adjustable
193	B	What is the device used to measure the length between two opposing ends?	measuring tape	caliper	multimeter	solder
194	D	In compliance with the JIS, what color is used to indicating the piping parts of cooling water system?	grey	yellow	red	blue
195	D	In order to prevent the seizure and abnormal wear, when will it be necessary to perform the grinding ring for a piston?	when the piston is re-opened	when the piston is restored	when the piston is re-started	when the piston is replaced
196	D	下列那項是「調節齒桿」的意思？	control rack	control box	crank pin	connecting rod
197	A	What document will state the checking and maintenance schedules, the working procedures, the usages of the special tools and the standard specifications for components of a machinery?	maintenance manual	operation manual	instruction manual	standard text book
198	C	What can be selected as the unit for the rated speed of an engine?	liter	mm	rpm	kg
199	B	Injection lag can be caused by _____.	improper timing of the intake valves	setting of the pump plunger	compressibility of the fuel	position of the needle valve
200	B	柴油機船輪機日誌中的「船籍港」，其英文全名為何？	Signal letters	Port of registry	Classification certificate	Nationality certificate
201	A	What shall be prevented from entering into the pressure indicator?	dust	air	temperature	pressure
202	C	What is the tightening (loosing) tool that uses separate sockets to fit different sizes of nuts and bolts?	saw	file	socket wrench	visc
203	C	What measure can be safely used to combat all class of fires?	foam	low velocity water fog	CO2	high velocity water fog
204	A	下列那句最接近「找出故障原因了嗎？」的意思？	Traced the trouble?	Got the sample?	How's the engine?	How's going?
205	D	The unit of electrical resistance is _____.	horsepower	volt	joule	ohm
206	D	下列那項是「啟動閥」的意思？	indicator valve	intake valve	intake valve seat	starting valve
207	A	What is the possible cause for insufficient combustion air for a turbocharged diesel engine?	fouling turbine	fuel pump failure	lubrication failure	excessive cooling
208	D	The distance between top-dead-center (TDC) position and bottom-dead-center (BDC) position of the diesel engine is called _____.	clearance	bore	displacement volume	stroke
209	B	下列那句最接近“Detach the turbine-side keep plate”的意思？	接上渦輪側保持板	分離渦輪側板	安裝渦輪機導板	裝上渦輪支架
210	C	What is the unit of electrical power?	ampere	volt	watt	farad
211	A	What quantity is measured by the manometer?	pressure	temperature	density	viscosity

212	A	The timing for each starting valve must be set so that it opens when the piston is _____.	just past the top-dead-center ( TDC )	just past the bottom-dead-center ( BDC )	on the way upward	just before the bottom-dead-center ( BDC )
213	A	Before starting up the engine, what shall be ensured for the turning gear?	Detach the turning gear	Engage the turning gear	Detain the turning gear	Delay the turning gear
214	A	Prior to operation, maintenance and inspection of an engine, what shall be read throughly in order to run the engine safely?	safety precautions	engine guidelines	orders from engineers	operating parameters
215	C	What is the thin plate with the typical disk-shape and a hole that is normally used to distribute the load of a threaded fastener?	screw	grindstone	washer	hose clamp
216	C	With what manner that the cylinder and piston must be warmed up to a temperature of about 65°C in a stand-by engine?	warmed up abruptly	warmed up excessively	warmed up gradually	warmed up immediately
217	B	Before the initial start of the engine after its installation, what is the procedure required to be performed in order to make sure there is no abnormality?	stopping	inspection	heating	cooling
218	B	Charging is a process of the diesel engine that supplies _____ into cylinder for compression.	feeding water	fresh air	fuel oil	exhaust gas
219	D	What unit is used for the mass of an object?	sec	mm	rpm	kg
220	B	Which measure is usually adopted to detect the dirty elements of an oil filter ?	increase of oil tempearture after the filter	pressure drop across the filter	increase of high lube oil sump temperature	decrease of oil viscosity after the filter
221	A	下列那句最接近「將螺栓旋緊」的意思？	Screw the bolt tightly.	Loosen the locks separately .	Tighten the nut tightly.	Screw the belt tightly.
222	D	下列那句最接近“Fix the mounting-leg bol” 的意思？	修理離合器螺栓	安裝固定腳架	焊接支架腳螺栓	裝上支架腳螺栓
223	B	Standard atmospheric pressure is equal to _____.	700 mm of mercury	760 mm of mercury	700 mm of water	760 mm of water
224	B	What shall be checked for the air reservoir in order to make sure of the successful start of a diesel engine?	length	pressure	temperature	weight
225	C	Gasoline oil, having a low octane number, can result in _____.	improved cold weather	smoother engine operation	combustion knocking	reduce ignition lag
226	B	Which device include a turbine and a blowers and is used to increase amount of inlet air and thus increase power output of diesel engines?	lubricating system	turbocharger	propulsion system	cooling air system
227	D	What type of spanner has an adjustable “jaw” that allows for different size nuts and bolts to be handled by the same spanner?	ring spanner	open-ended spanner	box-ended spanner	adjustable spanner