QUESTION BANK FOR ENGINE ROOM WATCHKEEPING AND RESOURCE MANAGHEMENT, SUB CODE: 804, 2017.

PART A

1 Under what conditions can a seafarer be asked to perform more number of hours of work without sufficient hours of rest?

2 Describe the Watch Keeping System in the engine room .
3 How is a seafarer prevented from abusing alcohol?
4 What is 'hazard' in risk management terminology ?
5 What is meant by ' Risk Analysis' ?
6 What is the objective of 'Engine room resource management ?
7 Write the meaning of 'Time management'
8 Will you take over a watch in port If an important operation is being performed but not yet completed?

9 When are specific/special operational guidelines required for keeping an engineering watch? Who provides these?

10 If the Chief Engineer is present is the engine room, who is now responsible for machinery space operations?

11 When the machinery spaces are in manned and "Standby" condition, what important machinery must the EOW should start.

12 what is the Alcohol policy on board ships ?
13 Name any 2 conditions in which engine room is switched over to Watch keeping mode from UMS?
14 Name any 2 emergency situations that an engineer may face during watch?
15 How Prioritization applicable in Engineroom Resource Management?
16 What is Engine Room Resource Management?
17 What is meant by the term "Human Factors"?
18 What is Assertiveness ?
19 What is the difference between Assertiveness and Disobeying?
20 What is a team, and how is it built?
21 What is an Extension alarm ?
22 What is the purpose of Deadman's alarm?
23 What is Engineer's callout alarm?
24 State 2 instances for activating an Engineer's callout alarm?
25 In Engine room how many resetting points are there for Deadman's alarm ?
26 What entries to be made in log book regarding ER bilge transfer to bilge holding tank?
27 How drug and alcohol policy enforced onboard?
28 what action will be taken if seafarer fails In alcohol test onboard?
29 How Alcohol testing is carried out onboard?
30 Who carries out alcohol test onboard?
31 Name the instrument used for alcohol test onboard?
32 How many hours before taking over the watch a wacth keeper can consume alcohol?
33 What is shore leave & its importance?
34 What do you understand of Chief Engineer's Standing orders?
35 Explain what is WATCH KEEPING?
36 What are the normal senses to be used during watch keeping?
37 Is watchkeeper permitted to carry out maintenance work during watchkeeping?
38 On 2 hours notice before arrival Why watchkeeper should switch on another DG?
39 On 2 hours notice before arrival Why watchkeeper should lock bilge overboard valve?
40 On 2 hours notice before arrival Why watchkeeper should tryout auxiliary boiler?
41 On 2 hours notice before arrival Why watchkeeper should switch on power to mooring systems?
42 On 2 hours notice before arrival Why watchkeeper should change over the Sea chest suction?
43 On 2 hours notice before arrival Why watchkeeper should stop Fresh Water Generator?
44 On 2 hours notice before arrival Why watchkeeper should prepare Sewage system for port operation?
45 On 2 hours notice before arrival Why watchkeeper should drain fuel oil and lube oil tanks?
46 At stand by before arrival Why reversing test is done on main engine?
47 What Is movement book?
48 What entries are made on movement book?
49 After finished with engine why auxiliary blowers are secured?

50 After finished with engine why JCW preheating is done?
51 After finished with engine why engine blown through is carried out?
52 After finished with engine why main engine starting air line is drained & master valve shut??
53 Why only one main air bottle is kept open during maneuvering?
54 why propeller clearance is required from Bridge before turning the engine?
55 Why starting air line temperature to be checked during maneuvering?
56 After finished with engine How JCW preheating is achieved?
57 What are JCW outlet Temperature and pressure on normal running conditions?
58 What are main engine lube oil pressure and cross head lube oil pressure in sulzer engines under normal working conditions?
59 What are the checks to be made by watch keeper in steering gear @ sea?
60 What are the checks to be made by watch keeper in EGB@ sea?
61 What are the checks to be made by watch keeper in air bottles @ sea?
62 What are the checks to be made by watch keeper in JCW expansion tank @ sea?
63 What are the checks to be made by watch keeper in Auxiliary boiler @ sea?

PART B

1 What are the instructions to be given to crew regarding 'Risk assessment'?
2 What events in the machinery spaces must be immediately notified to the Bridge by the EOW?
3 Explain Allocation and assignment of personnel As per Engineroom Resource Management When vessel entering & leaving the port
4 why communication is important with respect to Engineroom Resource Management ,give example ?
5 Explain Assertiveness with an example
6 What are leadership qualities as per Engine room Resource management?
7 What precautions must be taken by the OEW when Bridge informs him that visibility is poor or restricted?
8 What precautions must be taken by the OEW when Bridge informs him that the vessel is in coastal waters with traffic congestion?
9 What participation and involvement is required of the EOW inongoing maintenance carried out during his watch?
10 Why is it necessary to maintain logs of machinery operation in the engine room ? What is the importance of recording correct parameters?
11 What is Situational awareness and explain with an example?
12 What are the important aspect of watch keeping as per Engineroom Resource Management?
13 State step by step procedure for attending an alarm in UMS System?
14 Why is Effective Communication important in the engine room?
15 What are the four basic but very important rules for effective communication?
16 What is Extension alarm system? How its connected to Watch keeping?
17 What character must a leader possess to withstand a crisis situation?
18 On what conditions the Extension alarm will sound ?
19 What are the procedures to Activate Deadman's alarm?
20 How Deadman's alarm system operates and resetted to extend the time?
21 Why must the leader of a team be conversant with the experience of his team members?
22 While on watch, you find the ballast pump is not taking suction from the ballast tanks.With respect to Engine room resource management system what action will you take?
23 At What time intervals does the Deadman's' alarm normally set? procedure for time period adjustment?
24 Tabulate the checklist for Starting of Turbine
25 What are the entries to be made by watch keeper in log book while operating OWS @ sea
26 How rest hours are maintained onboard for seafarers?
27 What are the Code of conduct for seafarers under watch keeping?
28 As a Watchkeeper briefly explain about the actions to be taken for oily mist detector alarm?
29 Briefly explain Under what condition would you refuse to Take over a watch?
30 Briefly explain Under what condition would you refuse to hand over a watch?
31 Explain fitness for duty according to STCW
32 Describe 5 important instructions given by the reliever to the personnel who takes over the watch?
33 Mention 5 important duties of watchkeeper to be carried out during watch?

34 Describe watchkeepers duties In port?
35 Outline the reasons for calling the Chief engineer during the Watch?
36 Elaborate 6 important duties of Watchkeeping while passing through restricted Waters and maneuvering?
37 Elaborate 6 important duties of Watchkeeping while on safe anchorage ?
38 Elaborate 6 important duties of Watchkeeping during bad weather?
39 As a watchkeeper describe how will you perform soot blow of EGB using steam?

PART C

1 Changing over procedure from day Watch keeping to UMS in a step by step manner,including check list.?
2 Explain in detail about the Deadman's alarm? How the Deadman's alarm connected to watch keeping? Procedure for Starting, resetting and stopping of Deadman's alarm?
3 Explain in detail about the Engineer's callout alarm? How is Engineer's callout alarm connected to Watch keeping?
4 What are the procedures carried out for Handing over a watch?
5 What are the procedures carried out for Taking over a watch?
6 Tabulate the checklist for Starting of Main engine
7 Explain "no alcohol policy" onboard?
8 What actions must be taken by the engineer on watch in case of an emergency like black out? .
9 What actions must be taken by the duty engineer in case of an emergency like fire in the purifier room?
10 What actions must be taken by the engineer on watch in case of an emergency like collision or grounding?
11 What actions must be taken by the engineer on watch in case of an emergency like flooding?
12 Tabulate the checklist for Finished with engine.
13 Tabulate the checklist for Standby engine departure port .
14 Tabulate the checklist for Full away .
15 Tabulate the checklist for standby engine Arrival port.
16 As a Watchkeeper briefly explain about the actions taken for Crank case explosion?
17 As a Watchkeeper briefly explain about the actions taken for Scavenge fires?
18 As a Watchkeeper briefly explain about the actions taken for Fire in engine room?
19 Describe the routine checks you will make and jobs you will do when keeping watch in the engine room ?
20 What are the duties of watchkeeper to be carried out during watch?
21 Tabulate risk assessment form for the Main engine 1 unit piston removal
22 Tabulate risk assessment form for Removal of big end bearing of main engine
23 Tabulate risk assessment form for Auxiliary B**oiler survey**
24 Tabulate risk assessment form for **Exhaust gas boiler survey**
25 Tabulate risk assessment form for Bunkering
26 Tabulate risk assessment form for Sea chest filter cleaning