

Candidate Name :

***Ports and Maritime Organization***  
***Seafarers' Examination and Certification Directorate***  
**Exam Code : CMSB**

Subject : Shipboard Operation

Date:

Rank : Chief Officer (GT≥3000)

Time allowed: 2,0 Hours

**(Pass mark : 60)**

Q.1) - a) - What is the meaning of “**safe means of access**” (0M)

b) - Describe the safety precautions to be observed in respect of personnel and ship while vessel in **dry dock**. (10M)

**Candidate Name :**

**Q.२) - a) -** Describe the procedure and requirement for **crude oil washing** of a cargo tank in an oil tanker and explain the measures have to be taken to prevent fire, explosion and pollution during such operation. (१.M)

**b) -** Draw flammability diagram and define terms too lean and too rich. (१.M)

**Q.३) -** Write short notes on:

**a) -** Loading/unloading sequence plan in bulk carriers (०.M)

**b) -** Content of code of safe practice for carriage of solid bulk cargoes (**IMSBC code**) (०.M)

**c) -** **segregated from** as defined in IMDG code (०.M)

**d) –** **Transportable moisture limit** (०.M)

**Q.ॣ) -** Give details of the inspection and maintenance required for **ballast water tank**. (२.M)

**Q.॥) -a) -** Describe in detail the content and entries made in the **Chain Register** (Cargo Gear Book). (१.M)

**b) -** Describe in detail the content and entries made in the **oil Record Book** of dry cargo vessel. (१.M)