

## **B CERTIFICATE EXAMINATION NAVAL WING SD/SW** **FOR THE YEAR 2014 – 2015 SPECIAL SYLLABUS**

SI No :  
Roll No :

Total Marks : 90  
Time Allotted : 2 Hour

### **General Instructions:**

1. Read all Questions and clarify doubts before answering.
2. All answers to be written on the Question paper next to each Question at the space given.
3. Only Ball Point pen to be used for writing the answers.
4. No additional answer sheets or additional

### **NAVAL ORIENTATION AND GENERAL SERVICE SUBJECT** (Marks 25)

Q1 Fill in the blanks 05

- a) \_\_\_\_\_ is the Supreme Commander of Armed Forces.
- b) INHS Patanjali is located at \_\_\_\_\_.
- c) A Sergeant in Air Force is equivalent to \_\_\_\_\_ in the Navy.
- d) The new arriving Air craft Carrier's Name is \_\_\_\_\_.
- e) INS Abhimanyu is a \_\_\_\_\_ School.

Q2 State True or False 05

- a) An Officer in the rank of Rear Admiral commands the Eastern Fleet (True/False)
- b) Barak Missile is the main weapon used by Aircraft Sea Harrier (True/False)
- c) Training command of Indian Navy is Southern Naval Command (True/False)
- d) The Navigating Officer is the Second in command of a Naval Warship (True/False)
- e) The present Chief of Naval Staff is Admiral NK Verma (True/False)

Q3 Match the following 05

- |                            |     |              |
|----------------------------|-----|--------------|
| a) INHS Jeevanti           | ( ) | a) Mumbai    |
| b) INS Delhi               | ( ) | b) New Delhi |
| c) INS Betwa               | ( ) | c) Goa       |
| d) INS Hamla               | ( ) | d) Cruiser   |
| e) Integrated Headquarters | ( ) | e) Colonel   |
|                            |     | f) Frigate   |

Q4 Expand the following 05

- a) ECP
- b) ASP
- c) SCR
- d) FOCinC

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e) FOCEF

Q5 Write short note on the following 05

a) Colours

b) Routine

## **NAVAL WARFARE**(Marks 10)

Q6 What is the role of Minesweepers ship in Indian Navy 06

Q7 Expand the following 04

a) SLCM

b) DRDO

c) ASWI

d) TNT

## **COMMUNICATION** (Marks 10)

Q8 Write the Full form of the following 03

a) MSO

b) SCO

c) LRO

Q9 Write down the Morse code 03

a) Bravo

b) Delta

c) Quebec

Q10 Write any two types of communication used in Indian Navy 02

Q11 Explain term "Naval Communication". 02

## **NAVIGATION** (Marks 10)

Q12 Choose the correct answer 02

a) Green light represent at sea in the ship

i) Port side ii) Stbd side iii) Prohibited area

b) One Nautical Mile is equivalent to

i) 1825 Mtrs ii) 1852 Mtrs iii) 1865 Mtrs

c) The instrument by which wind speed is measured

i) Elcometer ii) Barometer iii) Anemometer

d) Range and direction of an object at sea is measured by

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i) Chart

ii) Plotting Table

iii) RADAR

Q13 Write short note on the following

08

- a) Longitude
- b) Echo Sounder
- c) Beacons
- d) Radar

## **SEAMANSHIP** (Marks 15)

Q14 Fill in the blanks

05

- a) Dog watch is from \_\_\_\_\_ hrs to \_\_\_\_\_ hrs
- b) Length of the Whaler Boat is \_\_\_\_\_
- c) The length of inhaul rope is \_\_\_\_\_ meters.
- d) SWR stands for \_\_\_\_\_.
- e) The duration of Side pipe is \_\_\_\_\_ seconds.

Q15 Draw the diagram of an Anchor and its parts.

05

Q16 Name the types of stoppers use in Indian Navy.

05

## **NBCD and Ship Safety**(Marks 07)

Q17 Fill in the blanks

02

- a) \_\_\_\_\_ Extinguisher is used against Metallic fire.
- b) Duration of AFFF extinguisher is \_\_\_\_\_.

Q18 Write down the full form of the following

05

- a) BASCCA
- b) PDK
- c) QFD
- d) AFPS
- e) TIC

## **SHIP MODELING** (Marks 05)

Q19 Name any five tools used in Ship modeling.

05

## **SEARCH, RESCUE AND SURVIVAL** (Marks 05)

Q20 What is the role of Coast Guard ship during search and rescue

02

Q21 Answer the following

- a) List any four items which are kept in Life raft

02

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b) Write the life saving equipments fitted onboard warship.

01

## SWIMMING(Marks 03)

Q22 What are the safety equipments kept in swimming pool?

03

## ANSWER BANK B CERTIFICATE EXAMINATION FOR THE YEAR 2010 – 2011 SPECIAL SYLLABUS

### NAVAL ORIENTATION AND GENERAL SERVICE SUBJECT

- Q1 a) The President of India b) Karwar c) Petty Officer (PO)  
d) INS Vikramaditya e) Marine Commando School
- Q2 a) False b) False c) True d) False e) True
- Q3 a) c b) d c) f d) a e) b
- Q4 a) Emergency Conning Position  
b) Aft Steering Position  
c) Sonar Control Room  
d) Flag Officer Commanding in Chief  
e) Flag Officer Commanding Eastern Fleet
- Q5 a) Colours: The ceremony of hoisting the Naval Ensign and the National flag at the Ensign and Jack staff respectively at 0800 hrs onboard Ships in harbor is called "**Colours**". Alert/still is sounded on the bugle /pipe before the flag hoisting and **carry on** is sounded on completion.
- b) Routine. This is the time table based on which the men onboard do their routine work, eat their meals, rest and proceed on liberty.

### NAVAL WARFARE

- Q6 Minesweepers are used to detect and clear or sweep under water mines so that the ships can pass safely. Large winches at the rear of the minesweepers lower Sonar buoys into the ocean to detect mines. Minesweepers use large devices with sharp teeth to cut the cables of moored mines.
- Q7 a) Submarine Launch Cruise Missile  
b) Defence Research and Development Organization  
c) Anti Submarine Warfare Instructor  
d) Tri Nitro Toluene

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## NAVAL COMMUNICATION

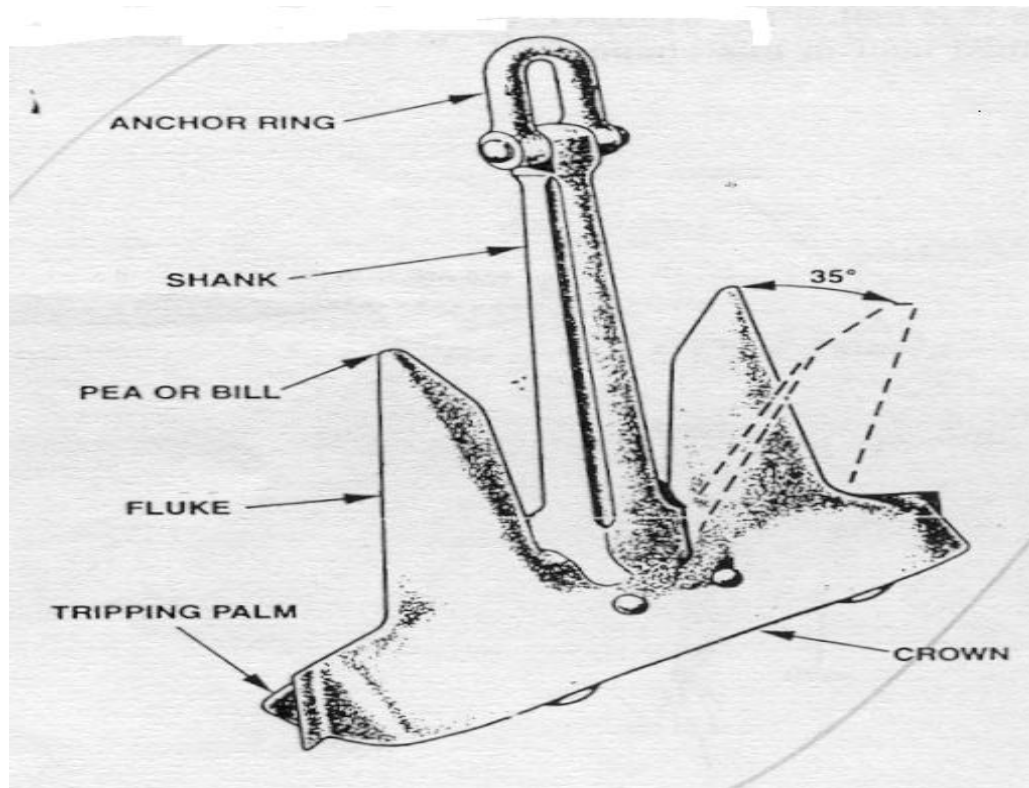
- Q8 a) Main Signal Office  
b) Signal Communication Officer  
c) Leading Radio Operator
- Q9 a) \_ . . .  
b) \_ . .  
c) \_ . . \_
- Q10 Visual Communication, Satellite Communication, Wireless HF/VHF/UHF Communication
- Q11 The Communication carried out between ship to ship, ship to shore, shore to ship , ship to submarine, shore to submarine, ship to aircraft and vice versa using light, flag, satellite communication and various other HF/VHF/UHF/VLF/LF radio equipments can be said to the naval communication.

## NAVIGATION

- Q12 a) ii                      b) ii                      c) iii                      d) iii
- Q13 a) Longitude. The longitude of a place is the angle between the plane of the Prime Meridian and the meridian of the place measured from 0 deg to 180 deg east or west of Greenwich.  
b) This device is used to measure the depth of the water.  
c) Beacons are the prominent structures similar to light houses but as a rule they do not exhibit any light.  
d) Is the equipment used to detect the objects at sea and to find out the direction, speed and distance of the contact from the ship.

## SEAMANSHIP

- Q14 a) 1600 hrs to 2000 hrs                      b) 27 ft                      c) 90 Mtrs                      d) Steel Wire Rope  
e) 12 Secs
- Q15



Q16 Cordage stopper, Chain stopper, Chain check stopper, Carpenter's stopper

**NBCD**

- Q17 a) DCP b) 60 to 90 sec  
Q18 a) Breathing Apparatus Self Contained Compressed Air  
b) Personnel Decontamination Kit  
c) Quartz Fibre Dosimètre  
d) Aluminized Fire Proximity Suit  
e) Thermal Image Camera

**SHIP AND BOAT MODELING**

Q19 (a) Measuring and Testing Tools: Tape, chain measure, foot rule, try square, sliding level, marking gauge and compass etc.

(b) Planes: Jack plane, smoothing plane, compass plane, adjustable compass plane and spoke shave etc.

(c) Chisels: Gouging chisel, mortise chisel and flat chisel of various sizes.

(d) Cutting Tools: Hand saw, fret saw, hacksaw and various types of multi-craft knives.

(e) Boring tools: Hand drill, gimlet and augur etc.

(f) Vice and clamps: Bench vice, hand vice and clamps of various sizes.

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- (g) Files: Rasp rough, rough flat, half round, round triangular, knife edge, square and diamond etc.
- (h) Miscellaneous: Hammer, spanners, nose pliers, cutting pliers, scissors, screw drivers, set squares, soldering irons and drill bits of various sizes etc.

## **SEARCH AND RESCUE**

Q20 The Coast Guard plays a very important role in the search and rescue. The Coast Guard Ships and Aircrafts co ordinate with the Maritime Rescue Co ordination centre and carry out the search and rescue operation.

Q21 a) Rescue quoits and buoyant line, knives and balers, sponges, sea anchors paddies, puncture repair outfit, topping-up pump for inflatable rafts, tin openers, first-aid outfit, water rations and graduated drinking vessel waterproof torch capable of signaling Morse code, spare batteries and bulb, daylight signaling mirror and whistle, parachute distress-signals and hand flares set of fishing tackle, food rations, anti-seasickness tablets, survival instructions and an illustrated copy of the table of lifesaving signals.

b) Life raft, Lifejacket, Life Boat,

## **SWIMMING**

- Q22
- a) Lifebuoy
  - b) Bamboo
  - c) Rubber tube
  - d) Life Line
  - e) Oxygen Mask
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