



## Board of Examinations for Seafarers Trust Common Entrance Test for GP ratings Mar 2012 (Question and Answer Book)

<b>Name of the candidate:</b> →		<b>Signature</b> →	
BES Code No.	Roll No.	Exam Room No.	

Write BES Code No. on each page in the given space

<b>Signature of invigilator</b> →	
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**Instructions to the Candidate:**      **Maximum time allowed**      **1.5 hours**

1. Keep your admit card for viewing by the invigilator. Do not exchange your seat with any other candidate
2. This booklet contains **7** printed pages. Check if any page is missing or not printed properly.
3. All answers to be written within the space provided with each question.
4. All questions are compulsory and must be answered in **English** only.
5. **Candidate who disobeys instruction or adapts unfair means will be asked to leave the examination hall immediately. Name of the candidate will be reported to the Authority.**
6. This Question and Answer Book must be returned at the end of examination.
7. Use black or blue pen only for writing answers.
8. Start writing only when asked to do so by the invigilator.
9. No candidate will be allowed to leave the room within first 45 minutes and last 20 minutes.
10. Time will be announced 10 minutes before the end. You will not be allowed to leave until the invigilator has collected and counted all question and answer book.
11. **No permission will be granted for going to toilet.** Water will be supplied within the hall. Any abnormal health conditions must be declared before the commencement of the examination.
12. Do not exchange writing material (e.g. pen, paper, etc.) with any other candidate. If you need something, raise your hand to get attention of the invigilator.
13. No calculators or mobile phones allowed inside the examination hall/room.
14. This paper has three sections. All the sections are compulsory. You are expected to score a minimum of 40% marks in each section. The distribution of the marks is as follows:
15. **Advise: if you can't finish the first part in 30 minutes – move to the next – and next**

Sect. 1 English (50 marks)			Sect. 2 Science (50 marks)			Sect. 3 Mathematics (50 marks)			Remarks of examiner's, if any
Q. No	Max Marks	Score	Q. No	Max Marks	Score	Q. No	Max Marks	Score	
1	10		1-2	10		1	12		
2-3	10		3	20		2-3	8		
4-5	10		4	5		4	20		
6	10		5	15		5	10		
7	10								
Total			Total			Total			
Signature of examiner/ dt			Signature of examiner / dt			Signature of examiner/ dt			
Name:			Name:			Name:			
Moderator's Name:						Signature & Date			

## Section 1 English

## Q1. Make Sentences

(10 Marks)

Word	Write a sentence with the word within the space given below
.1 laughing	
.2 cruel	
.3 happy	
.4 confidence	
.5 shock	
.6 wedding	
.7 explain	
.8 ahead	
.9 glass	
.10 practice	

Q2. Match the words in Column I to their opposite given in Column II (5 Marks)

Column I	Column II	Column I	Write the opposite word
.1 buy	a) darkness	.1 buy	
.2 good	b) death	.2 good	
.3 light	c) sell	.3 light	
.4 enjoy	d) bad	.4 enjoy	
.5 birth	e) suffer	.5 birth	

Q 3. Complete the sentences below using and or but or were: (5 Marks)

1. Brother and sister \_\_\_\_\_ not on talking terms.
2. He was feeling cold \_\_\_\_\_ wet.
3. In the park the boys and girls \_\_\_\_\_ playing.
4. Ram is a tall person \_\_\_\_\_ Shyam is a short person.
5. Sushma is fat woman \_\_\_\_\_ Neeta is a slim girl.

## Q 4. Fill in the blanks with one of the preposition given in the bracket: (5 Marks)

1. Alim is reporting to office \_\_\_\_\_ Monday. (on / in / at)
2. Shyam is visiting his mother \_\_\_\_\_ the weekend. (in / on / at)
3. My friend has been living in Mumbai \_\_\_\_\_ two years. (at / for / in)
4. You will suffer \_\_\_\_\_ later years if you eat junk food. (at / since / in)
5. I wish to offer myself \_\_\_\_\_ a candidate for this post (in / as / for)

**Q 5. Fill in the blanks with correct word given within the bracket: (5 Marks)**

1. Some of the students \_\_\_\_\_ their studies all through the year. (forget / neglect).
2. Football is a \_\_\_\_\_ game. (team / individual).
3. A person who fixed water pipes and taps is called a \_\_\_\_\_ (mason / plumber / carpenter).
4. A person who mends your shoes is called a \_\_\_\_\_ (tailor / cobbler/ mechanic).
5. To get trust of others we should always be \_\_\_\_\_ (quick / honest / smart).



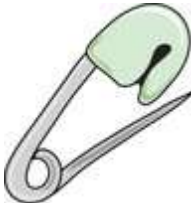







**Q 6 Read the following passage given below, and answer questions related to the passage. (10 marks)**

The Bhabha Atomic Research Centre (BARC) which is located at Trombay in Mumbai, was the brainchild of Dr Homi Bhabha, the father of India's nuclear programme. Dr. Bhabha took a personal interest in designing the centre, because he felt that with an indigenous nuclear programme India would become a powerful nation. This centre, which was started on January 3, 1954, was originally called the Atomic Energy Establishment. It was renamed Bhabha Atomic Research Centre on January 12, 1966 after Dr. Bhabha's death.

**Write the answers in the blank space below each question.**

1.1	BARC is located at:-
1.2	BARC was the brainchild of:-
1.3	Atomic Energy Establishment was started on:-
1.4	When was Atomic Energy Establishment rename?:
1.5	Dr Homi Bhabha is also known as father of:-

**Q 7. Identify the pictures and write their names within the given space (10 Marks)**

				
.1	.2	.3	.4	.5
				
.6	.7	.8	.9	.10

## Section 2 Science

### Q 1. Match the Column (5 Marks)

Column I	Column II	Column I	Choose from Column II and write
.1 Vinegar	a) Ore of aluminum	.1 Vinegar	
.2 Bauxite	b) Acetic acid	.2 Bauxite	
.3 Sodium carbonate	c) Blue vitriol	.3 Sodium carbonate	
.4 Copper sulphate	d) Washing soda	.4 Copper sulphate	
.5 Hydrogen sulphide	e) Acidic gas	.5 Hydrogen sulphide	

### Q 2 Fill in the blanks using any of the given words (ship, plane, fertilizer, diesel, fan, refrigerator, air conditioner, lubricating oil) (5 Marks)

- Used for carrying passengers by air. \_\_\_\_\_
- Used for carrying cargo at sea. \_\_\_\_\_
- Used for storing meat and fish \_\_\_\_\_
- Used for agriculture. \_\_\_\_\_
- Used as a fuel for trucks. \_\_\_\_\_

### Q 3 Out of the four given options only one is correct. ✓ (tick) only one A, or B, or C, or D. (20 Marks)

.1 Sodium chloride is also known as: A) Baking powder B) Washing soda C) Common salt D) Alkaline salt	.6 A magnet is made of _____. A) An alloy B) Iron C) Steel D) Galvanised iron
.2 Current is produced by a _____. A) Voltmeter B) Ammeter C) Galvanometer D) Generator	.7 Long sightedness is also known as: A) Myopia B) Hypermetropia C) Meropia D) Hypermeropia
.3 Which one of the following <u>does not</u> belong to the group A) Chlorine B) Methane C) Propane D) Sodium	.8 The rainbow has _____ colours. A) Five B) Six C) Seven D) Eight
.4 A magnet attracts A) Iron pieces B) Steel strips C) Copper filings D) Brass dust	.9 Atomic mass of Sodium is _____. A) 20 B) 21 C) 22 D) 23
.5 A mirage occurs: A) On a lake B) On mountains C) In the desert D) On a rainy day	.10 Mechanical power is rate of A) Change of speed B) Rise in energy C) Doing work D) Rotation

**Q 4** ✓ the right answer in the following (true / false / may be) statements **(5 Marks)**

- i) Weight of a body depends upon its size (true / false / may be)
- ii) All substances use the same amount of energy to climb equal heights (true/ false/ may be)
- iii) The kinetic energy of a body depends upon its velocity (true/ false/ may be)
- iv) Velocity of sound is different in different media (true/ false/ may be)
- v) Density of fresh water is higher than that of sea water (true / false/ may be)

**Q 5** Write one line to describe each of the following (you can include name or formula) **(15 Marks)**

.1 Water	.1 Steam	.1 Ice
.2 Acidic substance	.2 Alkaline substance	.2 Neutral substance
.3 Voltmeter	.3 Ammeter.	.3 watt meter
.4 Ferrous Metal	.4 Non ferrous Metal	.4 Non metal
.5 Generator	.5 Battery	.5 Capacitor

**Section 3 Mathematics – (Use last page for rough work)****Show calculations for each question****Q 1 (2 marks each) (total 12 marks)**

A) Find the average of 32, 48, 72, 96

B) Find the sum of 13.50; 15.82; 14.62 **(2 marks)**C) Write the next number in the following sequence **(2 marks)**

a) 3, 9, 27, \_\_\_\_

b) 5, 15, 45, 135 \_\_\_\_\_

E) Write the following in percentage form **(2 marks)** $1/4 =$  % $3/9 =$  %F) Solve  $\{(10 + 3) \times 5\} \div 6$  **(2 marks)****G)** Radius of a circle is 7 cm. Find its **(2 marks)**

Circumference:

Area:

**Q2** A cylindrical ice-cream glass has Radius = 7 cm and Height = 10cm. What is the volume of the glass? ( $\pi = 22/7$ ) **(4 marks)****Q3** For **right angled triangle** - Height = A cm; Base = B cm. write the formula for: **(4 Marks)**

Hypotenuse =

Area =

**Q 4 Calculate within the given space (show calculation for each): 20 marks (5 for each)****.1** 5000 candidates appeared - 3500 passed. Find percentage of passed?

.2	A grocer sells 20 kg of sugar every day at Rs.15 per kg. If cost is Rs.12 per kg, find the profit in 3 days?
.3	Uniform speed of 6 km per hour for first 4 hours, and then 4 km per hour for next 4 hour. Find the total distance travelled?
.4	Ram and Shyam are partners in a business. Ram invested Rs.16,000/ and Shyam invested Rs.20,000/. Find the share of profit for each if the total profit is Rs.27,000/.

**Q 5 Solve the equation**

.1	Find the value of <b>A</b> and <b>B</b> if: $A + B = 10$ and $2A + B = 15$ <b>(4 marks)</b>
.2	find the value of <b>X</b> ; $(6x + 6) - (5x + 2) = 0$ <b>(3 marks)</b>
.3	Solve $4a^2 - 36 = 0$ <b>(3 marks)</b>