

# Rashtriya Chemicals and Fertilizers Limited

(A Government of India Undertaking)

Administrative Building, Chembur, Mumbai- 400 074



## EXAMINATION FOR RECRUITMENT OF OPERATOR TRAINEE (CHEMICAL), OPERATOR (BOILER) & JUNIOR FIREMAN

### INFORMATION HANDOUT

This handout contains details pertaining to various aspects of the exam you are going to undertake and important instructions about related matters. You are advised to study the handout carefully as it will help you in preparing for the examination.

You may have to be at the venue for approximately 3 hours including the time required for logging in, collection of the call letters, going through the instructions etc.

The examination will comprise the following objective type multiple choice tests as stated below :

#### OBJECTIVE TEST :

Sr. No.	Name of Tests	No. of Questions	Maximum Marks	Medium of Exam	Time
1	General English	15	15	English, Hindi, Marathi	45 Minutes
2	Quantitative Aptitude	15	15		
3	Reasoning Ability & General Awareness	10 + 10	20		
4	Professional Knowledge	50	100		45 Minutes
	<b>TOTAL</b>	<b>100</b>	<b>150</b>		<b>90 Minutes</b>

#### OBJECTIVE TESTS :

Tests will be provided in English, Hindi and Marathi. You can attempt any questions of General English, Quantitative Aptitude and Reasoning Ability & General Awareness during the first 45 minutes time and any questions of Professional Knowledge Test in remaining 45 Minutes. All the objective questions will have multiple choices. Out of the five answers to a question only one will be the correct answer. **You have to select the most appropriate answer and 'mouse click' that alternative which you feel is appropriate/correct. The alternative/option that you have clicked on will be treated as your answer to that question. There will be penalty for wrong answers marked by you. For every wrong answer marked by you, 1/4 of the marks assigned to that question will be deducted as penalty.**

The Scores of Online Examination will be obtained by adopting the following procedure:

- Number of questions answered correctly by a candidate in each objective test is considered for arriving at the Corrected Score after applying penalty for wrong answers.
- In case the examination is held in multiple sessions, the Corrected Scores so obtained by a candidate are made equivalent to take care of the minor difference in difficulty level, if any, in each of the objective tests held in different sessions to arrive at the Equated Scores\*

\*Scores obtained by candidates on any test are equated to the base form by considering the distribution of scores of all the forms.

- Testwise scores and scores on total is reported with decimal points upto two digits.

Note : Cutoffs may be applied in two stages :

- On scores in individual tests
- On Total Score

**Please note that the types of questions in this handout are only illustrative and not exhaustive. In the actual examination you will find questions of a higher difficulty level on some or all of these types and also questions on the types not mentioned here.**

Some sample questions are given below.

### SAMPLE QUESTIONS GENERAL ENGLISH

**Q.1-3.** Pick out the most appropriate word from amongst the words given below each sentence to complete it meaningfully.

**Q.1.** He quickly glanced ..... the book to find what it said about the Indian economy.  
(1) at (2) through (3) in (4) to (5) over

**Q.2.** The counsel urged the court to ..... down the obnoxious law.  
(1) enact (2) enforce (3) cancel (4) strike (5) declare

**Q.3.** The local official ..... the Minister of the situation.  
(1) explained (2) warned (3) apprised (4) told (5) intimated

**Q.4-6.** Read each sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. The number of that part of the sentence is your answer. If there is no error, the answer is (5).

**Q.4.** I am twenty / two years old / when I first / joined the bank. No error  
(1) (2) (3) (4) (5)

**Q.5.** To the Hindus / the Ganga is / holier than / any other river. No error  
(1) (2) (3) (4) (5)

**Q.6.** Of all the teachers / in our school / our class teacher / were very strict. No error  
(1) (2) (3) (4) (5)

### QUANTITATIVE APTITUDE

**Q.1.** At 10 paise each, how many paise will 6 lemons cost ?  
(1) 6 (2) 10 (3) 60 (4) 61 (5) 610

**Q.2.** If 3 workers collect 48 Kg. Cotton in 4 days, how many kg. Cotton will 9 workers collect in 2 days ?  
(1) 216 (2) 32 (3) 108 (4) 72 (5) None of these

**Q.3-5.** In each of the following questions one number is missing. The place where the number is missing is shown by a question mark (?). You have to find out which one of the answers shown against 1, 2, 3 and 4 can replace the question mark. If none of these four can replace the question mark, you will indicate (5) i.e. 'Other than those given as options' as your answer.

**Q.3.**  $42 + 73 + 137 = ?$   
(1) 352 (2) 252 (3) 242 (4) 142 (5) Other than those given as options

**Q.4.**  $20 \times \frac{1}{2} = ?$   
(1) 4 (2) 5 (3) 12 (4) 20 (5) Other than those given as options

**Q.5.**  $0.7 \times 0.5 = ?$   
(1) 35 (2) 0.35 (3) 0.0035 (4) 0.035 (5) Other than those given as options

### REASONING ABILITY

This is a test to see how well you can think and also to judge your aptitude/ knowledge for working with computer. It contains questions of various kinds. Here are some sample questions.

**Q.1-3.** In each of the following questions, there are five letter groups or words in each question. Four of these letter groups or words are alike in some way, while one is different. Find the one which is different.

**Q.1.** (1) black (2) red (3) green (4) paint (5) yellow

**Q.2.** (1) BC (2) MN (3) PQ (4) XZ (5) ST

**Q.3.** (1) Mango (2) Apple (3) Orange (4) Guava (5) Rose

**Q.4.** 'Some leaders are dishonest. Satyapriya is a leader.' Which of the following inferences definitely follows from these statements ?

- (1) Satyapriya is honest (2) Satyapriya is dishonest  
(3) Some leaders are honest (4) Leaders are generally dishonest  
(5) Satyapriya is sometimes dishonest

**Q.5-6.** In each of the following questions, there is a question mark in which only one of the five alternatives given under the question satisfies the same relationship as is found between the two terms to the left of the sign :: given in the question. Find the correct answer.

- Q.5.** Foot : man :: hoof : ?  
(1) leg (2) dog (3) horse (4) boy (5) shoe
- Q.6.** Day : Night :: Kind : ?  
(1) Dark (2) Bright (3) Cruel (4) Generous (5) Gratitude

### GENERAL AWARENESS

- Q.1.** The famous Ayodhya temple is located on the bank of the river \_\_\_\_\_  
(1) Ganga (2) Godavari (3) Sarayu (4) Ban Ganga (5) Narmada
- Q.2.** The Unit for measuring intensity of 'Noise' is called \_\_\_\_\_  
(1) Knot (2) Calorie (3) Ohm (4) Joule (5) Decibel
- Q.3.** In India, 'Children's Day' is celebrated on the birthday of \_\_\_\_\_  
(1) Mahatma Gandhi (2) Jawaharlal Nehru (3) Indira Gandhi  
(4) Radhakrishnan (5) Lal Bahadur Shastri
- Q.4.** Which of the following sectors contributes maximum in deciding the growth in income of the states in India ?  
(1) Energy (2) Tourism (3) Service (4) Transport (5) Agriculture
- Q.5.** Tarapore atomic power plant is located in \_\_\_\_\_  
(1) Bihar (2) Gujarat (3) Madhya Pradesh (4) Rajasthan (5) Other than those given as options

### PROFESSIONAL KNOWLEDGE

#### OPERATOR TRAINEE (CHEMICAL)

- Q.1.** Cavitation in Centrifugal pump is eliminated by \_\_\_\_\_  
(1) Priming (2) Opening the bypass valve  
(3) Controlling Net positive suction head (4) Closing the discharge valve  
(5) Opening the discharge valve
- Q.2.** For collection of Sulphuric acid mist, the best equipment is \_\_\_\_\_  
(1) Cyclone separator (2) Bag filter (3) Hydrocyclone  
(4) Venturi Scrubber (5) Electrostatic Precipitator

#### OPERATOR (BOILER)

- Q.1.** The draught produced by steel chimney as compared to that produced by brick chimney for the same height is \_\_\_\_\_  
(1) Less (2) More (3) Same  
(4) May be more or less (5) May be less or same but not more
- Q.2.** The mounting used to measure the pressure exerted inside the vessel is \_\_\_\_\_  
(1) Water level indicator (2) Pressure gauge (3) Safety valve  
(4) Fusible plug (5) Junction or stop valve

#### JUNIOR FIREMAN

- Q.1.** Which of the following is the IS code for maintenance of First-Aid Fire Extinguishers ?  
(1) 15683:2006 (2) 2190:2010 (3) 1049:1969 (4) 926:1959 (5) 456:2000
- Q.2.** In general, which type of Fire Pump is used in the Fire Service?  
(1) Bucket and Plunger Pump (2) Force Pump (3) Centrifugal Pump  
(4) Ejector Pump (5) Rotary or Semi Rotary Pump

## Other Instructions :

### (A) Details of the On-line objective Examination Pattern

- (1) The examination will be conducted on-line i.e. on a computer.
- (2) Before clicking on the 'Start' option, the candidates can go through the instructions shown on the screen.
- (3) All tests will be in English, Hindi and Marathi.
- (4) Only when the 'Start' button is pressed the actual test time for objective test will start.
- (5) Only one question at a time will be displayed on the screen.
- (6) All the objective questions will have multiple choices. Out of the five answers to a question only one will be the correct answer. **You will have to select the most appropriate answer and 'mouse click' that alternative which you feel is appropriate/ correct. The alternative/ option that is clicked on will be treated as the answer to that question.**
- (7) The clock has been set at the server and the countdown timer at the top right corner of your screen will display the time remaining for you to complete the examination. When the clock runs out the exam ends by default - you are not required to end or submit your exam.
- (8) The Question Palette displayed on the right side of screen will show the status of each question using one of the following symbols:



You have not visited the question yet.



You have not answered the question.



You have answered the question.



You have NOT answered the question, but have marked the question for review.



The question(s) "Answered and Marked for Review" will be considered for evaluation.

The Marked for Review status for a question simply indicates that you would like to look at that question again. *If a question is answered and Marked for Review, your answer for that question will be considered in the evaluation.*

- (9) To select a question to answer, you can do one of the following:
  - a) Click on the question number on the question palette at the right of your screen to go to that numbered question directly. Note that using this option does NOT save your answer to the current question.
  - b) Click on Save and Next to save answer to current question and to go to the next question in sequence.
  - c) Click on Mark for Review and Next to save answer to current question, mark it for review, and to go to the next question in sequence.
- (10) To select your answer to an Objective Question, click on one of the option buttons.
- (11) To change your answer to an Objective Question, click the other desired option button.
- (12) To save your answer, you MUST click on **Save & Next**.

- (13) To deselect a chosen answer to an Objective Question, click on the chosen option again or click on the **Clear Response** button.
- (14) To mark a question for review click on **Mark for Review & Next**. If an answer is selected for a question that is Marked for Review, the answer will be considered in the final evaluation.
- (15) To change an answer, first select the question and then click on the new answer option followed by a click on the **Save & Next** button.
- (16) Questions that are saved or marked for review after answering will ONLY be considered for evaluation.
- (17) The candidates are requested to follow the instructions of the Test Administrator carefully. If a candidate does not follow the instructions / rules, it would be treated as a case of misconduct / adoption of unfair means and such a candidate would be liable for debarment from appearing for examinations for a period as decided by the RCFL.
- (18) The candidates may ask the Test Administrator about their doubts or questions only before the commencement of the test. No query shall be entertained after the commencement of the examination.
- (19) After the expiry of time the candidates will not be able to attempt any question or check their answers. On completion of test time, answers of the candidates would be saved automatically by the computer system even if they have not clicked the "Submit" button.
- (20) Please note :
  - a) Candidates will not be allowed to "finally submit" unless they have exhausted the actual test time of the examination.
  - b) Under no circumstances should a candidate click on any of the 'keyboard keys' during the test once the exam starts as this will lock the exam.

## **B] General Instructions:**

- (1) Please note date, time and venue address of the examination given in the call letter.
- (2) You may visit the venue one day before the Online Examination to confirm the location so that you are able to report **on time** (as printed on the call letter) on the day of the examination. Late comers will not be allowed.
- (3) The call letter should be brought with you to the examination venue along with your recent passport size photograph duly pasted on it. (Preferably the same photograph as uploaded).
- (4) You must scrupulously follow the instructions of the Test Administrator and RCFL Representative at the examination venue. If you violate the instructions you will be disqualified and will be asked to leave the examination venue.
- (5) No use of calculators (separate or with watch), books, note books or written notes, cell phones (with or without camera facility), or any other electronic device will be allowed during the examination.
- (6) Please bring this call letter with your recent photograph affixed thereon, photocopy of the ID proof stapled with call letter and same currently valid photo identity proof in original. - **THIS IS ESSENTIAL**. Please handover the call-letter alongwith photocopy of photo identity proof duly stapled together to the invigilator. Currently valid photo identity proof may be PAN Card/Passport/Permanent Driving Licence/Voter's Card/Bank Passbook with photograph/Photo Identity proof issued by a Gazetted Officer on official letterhead /Photo Identity proof issued by a People's Representative on official letterhead/Valid recent Identity Card issued by a recognised College/University/Aadhar Card/ E-aadharcard with a photograph/Employee ID/Bar Council Identity card with photograph. **Please Note - Ration Card and Learner's Driving License will NOT be accepted as valid ID proof for this project**. Please note that your name as appearing on the call letter (provided by you during the process of registration) should exactly match the name as appearing on the photo identity proof. Female candidates who have changed first/last/middle name post marriage must take special note of this. If there is any mismatch between the name indicated in the Call Letter and Photo Identity Proof you will not be allowed to appear for the exam.

- (7) Your responses (answers) will be analysed with other candidates to detect patterns of similarity of right and wrong answers. If in the analytical procedure adopted in this regard, it is inferred/concluded that the responses have been shared and scores obtained are not genuine/valid, your candidature may be cancelled. Any candidate who is found copying or receiving or giving assistance or engaging in any behaviour unbecoming of a candidate will not be considered for assessment. RCFL may take further action against such candidates as deemed fit by it.
- (8) You should bring with you a ball-point pen. A sheet of paper will be provided which can be used for rough work or taking down the question number you would like to review at the end of the test before submitting your answers. After the test is over you MUST hand over this sheet of paper to the Test Administrator before leaving the venue.
- (9) The possibility for occurrences of some problem in the administration of the examination cannot be ruled out completely which may impact test delivery and/or result from being generated. In that event, every effort will be made to rectify such problem, which may include the conduct of another examination if considered necessary. Decision of the test conducting body in this regard shall be final. Candidates not willing to accept such change shall lose his/her candidature for this exam.
- (10) If the examination is held in more than one session, the scores across various sessions will be equated to adjust for slight differences in difficulty level of different test batteries used across sessions. More than one session are required if the nodes capacity is less or some technical disruption takes place at any centre or for any candidate.
- (11) Please note that a candidate is allowed to appear only once in the online examination. Multiple appearance in online examination will result in cancellation of candidature. In case more than one call letter has been generated, candidates are advised to appear only once on the date and at the time mentioned on the respective call letter. All other call letters are to be surrendered.
- (12) Anyone found to be disclosing, publishing, reproducing, transmitting, storing or facilitating transmission and storage of test contents in any form or any information therein in whole or part thereof or by any means verbal or written, electronic or mechanical or taking away the papers supplied in the examination hall or found to be in unauthorised possession of test content is likely to be prosecuted.
- (13) Instances for providing incorrect information and/or process violation by a candidate detected at any stage of the selection, process will lead to disqualification of the candidate from the selection process and he/she will not be allowed to appear in any recruitment process of the RCFL in the future. If such instances go undetected during the current selection process but are detected subsequently, such disqualification will take place with retrospective effect.
- (14) We have displayed pre-test awareness facility / online demo (in Hindi, English and Marathi) on our website [www.rcfltd.com](http://www.rcfltd.com) under recruitment section. The candidates are requested to avail this facility.
- (15) **The outstation candidates belonging to SC/ST reserved category called for Online Written Test will be reimbursed to and fro Rail / Bus fare (as per the TA rates mentioned in the advertisement) from the nearest railway station of the correspondence address to the place of Online Written Test by the shortest route on production of necessary receipts. These amounts will be electronically credited in bank account within one month of exam.**
- (16) Candidates belonging to SC/ST category are requested to download the TA & Bank details form, from the recruitment page of RCFL website, fill it and bring on exam day for submission. Filled in Forms have to be dropped in a drop box provided at the venue along with photocopy of caste certificate, original tickets of incoming journey and photocopy of outgoing journey. The TA amount will be credited electronically in the bank account within one month of conduct of exam.

## SOCIAL DISTANCING MODE CONDUCT OF EXAM RELATED INSTRUCTIONS

- 1 Candidate is required to report at the exam venue strictly as per the time slot mentioned in the admit card. It is expected that candidate strictly adhere to this time slot – as entry into the exam venue will be provided based upon the individual's time slot ONLY. Candidates should report atleast 15 minutes before the Reporting time indicated on the call Letter.
- 2 Mapping of 'Candidate Roll Number and the Lab Number' will NOT be displayed outside the exam venue, but the same will be intimated to the candidates individually at the time of entry of the candidate to the exam venue.
- 3 Items permitted into the venue for Candidates  
Candidates will be permitted to carry only certain items with them into the venue.
  - a. Mask (WEARING A MASK is COMPULSORY)
  - b. Gloves
  - c. Personal transparent water bottle
  - d. Personal hand sanitizer (50 ml)
  - e. A simple pen
  - f. Exam related documents (Call Letter/Admit Card and Photocopy of the ID card stapled with it, ID Card in Original.)
  - g. Call Letter/Admit Card should be brought with the Photocopy of the Photo ID stapled with it. Original ID (same as Photocopy) is also to be brought for verification. The name on the ID and on the Call Letter/Admit Card should be exactly the same.
  - h. In case of Scribe Candidates - Scribe form duly filled and signed with Photograph affixed.
  - i. SC/ST candidates : Duly filled TA form with tickets attached (original ticket of incoming journey and photocopy of ticket of outgoing journey) alongwith photocopy of caste certificate.No other Items are permitted inside the venue.
- 4 Candidate should not share any of their personal belonging/material with anyone
- 5 Candidate should maintain safe social distance with one another.
- 6 Candidate should stand in the row as per the instructions provided at venue.
- 7 If candidate is availing services of a scribe, then scribe also should bring their own Gloves, N95 Mask, sanitizer (50ml) and transparent water bottle. Wearing a mask is compulsory. Both candidate and Scribe will require to be wearing N95 Mask.
- 8 A Candidate must have AarogyaSetu App installed on his mobile phone. The AarogyaSetu status must show candidate's risk factor. A candidate will have to display this status to the Security Guard at the entry into the exam venue. In case a candidate does not have a smart phone, he/she will have to bring in a signed declaration to this effect (declaration is provided along with this Call Letter) and show the same to the Security Guard at the entry into the exam venue. Candidates with Moderate or High Risk Status on AarogyaSetu App will not be allowed entry. In case any of the responses in declaration suggest COVID 19 infection/symptoms, the candidate will not be permitted inside the exam venue. (If candidate is availing services of a Scribe, then Scribe should also follow the same instructions.)
- 9 After AarogyaSetu status display at the entry gate, candidates will be required to switch off their mobile phones, and deposit it at the designated location, to be collected while exiting
- 10 All candidates (and Scribe, if applicable) will be checked with Thermo guns at the entry point for temperature. In case, any person is observed to be having above normal temperature (> 99.14° F) or displaying any symptoms of the virus, they will not be allowed entry into the venue.
- 11 In candidate registration :
  - a. Candidate registration will be done through photo capture.
  - b. Photograph will be taken while candidate is standing.
  - c. Seat number will be given to the candidate.
- 12 Rough sheet, call letter and ID proof management
  - Rough sheet(s) kept at each candidate desk will be used by candidate. No additional sheets will be provided during the exam.
  - Candidate must follow the instructions related to dropping the call letter with the ID proof copy in the boxes provided at the exit of lab/venue while leaving or at the designated place. Those candidates who avail the services of Scribe should submit Scribe form also along with the Call Letter and ID proof copy
  - Candidate must drop the rough sheets, call letter, ID proof copy in the boxes provided at the exit of lab/venue while leaving or at the designated place indicated by Exam officials.
- 13 Post Examination Controls
  - On completion of examination, the candidates should move out in an orderly manner without crowding as instructed by the venue staff.

**WISH YOU GOOD LUCK**