



# RESERVE BANK OF INDIA

## ON-LINE EXAMINATION - RECRUITMENT OF JUNIOR ENGINEERS (CIVIL/ELECTRICAL)

### INFORMATION HANDOUT

This handout contains details pertaining to various aspects of the online 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.

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

Sr. No.	Test	No. of Questions	Marks	Time
1.	English Language	50	50	Composite time of Two Hours
2.	Engineering Discipline	50	100	
3.	General Awareness	50	50	
	<b>Total</b>	<b>150</b>	<b>200</b>	

The time for the test is 120 minutes; however you may have to be at the venue for approximately 180 minutes including the time required for logging in, collection of the call letters, going through the instructions etc. All tests except for the test of English Language will be provided in English and Hindi. You can attempt any question from 1 to 150 at any point of time within these 120 minutes. All the 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 and saved (or marked review) 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, 1/4th of the marks assigned to that question will be deducted as penalty.**

**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

#### TEST OF ENGLISH LANGUAGE

**Q.1-2.** Read each sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is no error, the answer is 'No error'. (Ignore the errors of punctuation, if any).

**Q.1.** Most of the third world / country are experiencing / the ethnic or communal problem/  
(1) (2) (3)  
in varying degrees. / No error.  
(4) (5)

**Q.2.** The regaining of freedom / as we well know has given rise for / many dormant issues /  
(1) (2) (3)  
and conflicts in our society. No error.  
(4) (5)

**Q.3-4.** Pick out from the words given below each sentence the word which would complete the sentence correctly and meaningfully.

**Q.3** Continuous unemployment has induced in the people a kind of \_\_\_\_\_ which is most depressing.  
(1) laziness (2) encouragement (3) satisfaction (4) anger (5) awakening

**Q.4.** He wants me to look \_\_\_\_\_ his garden during his absence.  
(1) at (2) over (3) after (4) into (5) from

**Q.5-10.** In the following passage there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

The true (5) of rights is duty. If we all (6) our duties, rights will not be (7) to seek. If leaving duties unperformed we run (8) rights, they will (9) us like an elusive person. The more we pursue them, the farther (10) they fly.

**Q.5.** (1) end (2) source (3) joy (4) purpose (5) power

**Q.6.** (1) deny (2) devote (3) discharge (4) imagine (5) fulfill

**Q.7.** (1) far (2) close (3) easy (4) against (5) common

**Q.8.** (1) as (2) after (3) at (4) from (5) for

**Q.9.** (1) hold (2) grab (3) fight (4) escape (5) chase

**Q.10.** (1) off (2) can (3) did (4) could (5) towards

### **TEST OF ENGINEERING DISCIPLINE**

#### **Indicative areas to be tested in the examination for the post of Junior Engineer (Civil)**

1. Basic design principles of reinforced cement concrete and knowledge of IS:456
2. Preliminary design principles of steel members and knowledge of IS:800
3. Estimation and quantity surveying, Analysis of rates with knowledge of current market availability of materials, makes and rates and also interpreting building drawings
4. Calculation of area/volume of various geometrical shapes, mode of measurements as per IS:1200.
5. Surveying and contouring.
6. Building materials their uses and makes, physical & chemical properties, procedures of standard tests of building material and finished products.
7. Construction technology.
8. Water proofing materials and technology.
9. Water purification.
10. Sanitary and plumbing Engineering.
11. Water conservation techniques.
12. Green building norms and materials.
13. Basics of other civil engineering subjects.

#### **Indicative areas to be tested in the examination for the post of Junior Engineer (Electrical)**

1. Basics of Electrical Engineering.
2. Lighting design of office areas.
3. Transformers, Working principles, protection types, preventive maintenance.
4. Pumping systems.
5. Various types of motors, various starting methods of various types of motors.

6. Substation design and layout including DG set installations.
7. Type of earthing, testing, lightning arrestor, etc.
8. Basic knowledge of air conditioning & refrigeration.
9. Inverters, rectifiers, UPS systems.
10. Energy conservation techniques.
11. LT distribution system. cabling/internal wiring system, panel design and fault finding, preventive maintenance, etc.
12. Testing of electrical installation.
13. Basics of elevators design, electrical safeties protections, controllers, etc.
14. Basics of CCTV system, Fire and Smoke Alarm system, UPS.
15. Knowledge of Indian Electricity Rules.
16. Switchgears & protection used in HT/LT installations.






### TEST OF GENERAL AWARENESS

- Q.1.** To combat the menace of money laundering, which of the following financial institutions has introduced the 'Know Your Customer' Scheme ?
- (1) IDBI      (2) RBI      (3) NABARD      (4) SIDBI      (5) Other than those given as options
- Q.2.** 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.3.** In which of the following states is the number of people living below poverty line the maximum ?
- (1) Bihar      (2) Andhra Pradesh      (3) Uttar Pradesh      (4) Rajasthan      (5) Orissa
- Q.4.** OSCAR awards are given for best performance in which of the following field ?
- (1) Films      (2) Literature      (3) Sports      (4) Science      (5) Social Service
- Q.5.** Who among the following is the current Prime Minister of India ?
- (1) Dr. A. P. J. Abdul Kalam      (2) Dr. Manmohan Singh      (3) Mrs. Sonia Gandhi  
(4) Shri Atal Bihari Vajpayee      (5) Other than those given as options

**(A) Details of the On-line Examination Pattern**

- (1) The examination would be conducted on-line i.e. on a computer.
- (2) All tests will be in English & Hindi except test of English Language.
- (3) All the questions will have multiple choices. Out of the five answers to a question only one will be the correct answer. **The candidate has to select the most appropriate answer and 'mouse click' that alternative which he/ she feels is appropriate/ correct. The alternative/ option that is clicked on and saved (or marked review) will be treated as the answer to that question. Answer to any question will be considered for final evaluation, only when candidates have submitted the answers by clicking on "Save & Next" or "Mark for Review & Next".**
- (4) 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 exam. When the clock runs out the exam ends by default - you are not required to end or submit your exam.

- (5) The question palette at the right of screen shows one of the following statuses of each of the questions numbered:

-  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.
-  You have answered the question but marked it for review.

The Marked for Review status simply acts as a reminder that you have set to look at the question again. *If an answer is selected for a question that is Marked for Review, the answer will be considered in the final evaluation.*

- (6) 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 & 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.
- (7) To select your answer, click on one of the option buttons.
- (8) To change your answer, click another desired option button.
- (9) To save your answer, you **MUST** click on **Save & Next**.
- (10) To deselect a chosen answer, click on the chosen option again or click on the **Clear Response** button.
- (11) 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.*
- (12) To change an answer to a question, first select the question and then click on the new answer option followed by a click on the **Save & Next** button.
- (13) Questions that are saved or marked for review after answering will ONLY be considered for evaluation.**
- (14) Sections will be displayed on the top bar of the screen. Questions in a section can be viewed by clicking on the section name. The section you will view will be highlighted.
- (15) After clicking the **Save & Next** button on the last question for a section, you will automatically be taken to the first question of the next section.
- (16) You can move the mouse cursor over the section names to view the status of the questions for that section.
- (17) You can shuffle between sections and questions anytime during the examination as per your convenience.

- (18) The candidates are requested to follow the instructions of the "Test Administrator" carefully. If any 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 RBI.
- (19) 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.
- (20) After the expiry of 120 minutes, the candidates will not be able to attempt any question or check their answers. The answers of the candidate would be saved automatically by the computer system even if he/ she has not clicked the "Submit" button.
- (21) **Please note :**
- (a) **Candidates will not be allowed to "finally submit" unless they have exhausted the actual test time.**
  - (b) **Under no circumstances should a candidate click on any of the 'keyboard keys' once the exam starts as this will lock the exam.**

**B] General Instructions:**

- (1) Please note the 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 as was uploaded during online registration).
- (4) You must scrupulously follow the instructions of the Test Administrator and RBI Representative at the examination venue. If you violate the instructions you will be disqualified and will be asked to leave the examination venue.
- (5) 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 NOT be allowed during the examination.
- (6) Please bring the call letter with your photograph affixed thereon, currently valid Photo identity proof in original and a photocopy of the same ID proof which you bring in original - THIS IS ESSENTIAL. Please hand over 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/ 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 with a photograph/Employee ID/Bar Council Identity card with photograph. **Please Note - Ration Card and E-adhar Card 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. The RBI 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 is required if the nodes capacity is less or some technical disruption takes place at any centre or for any candidate.
- (11) In case more than one call letter has been generated (for the same post), candidates are advised to appear only once on the date and at the time mentioned on the respective call letter. All other call letters (for that post) 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 RBI 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.

#### **IMPORTANT POINTS TO REMEMBER**

You are advised to bring with you the following:

- (i) Call letter with photo affixed thereon and photo ID card in **Original** and photocopy as mentioned in point 7.
- (ii) One Ball point pen

**WISH YOU GOOD LUCK**