



INDIRA GANDHI INSTITUTE OF DEVELOPMENT RESEARCH

(An Advanced Research Institute Established by Reserve Bank of India)
Deemed To Be University

General A.K. Vaidya Marg, Santosh Nagar, Goregaon (East), Mumbai - 400 065

Online Examination for Admission to M.Phil./Ph.D. Programme 2018

INFORMATION HANDOUT

This Admission Test will be conducted ONLINE.

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.

Before appearing for the online examination you should strictly ensure yourself that you fulfil the eligibility criteria in all respects. **IGIDR** will reject, at any stage, any candidate who does not satisfy the eligibility criteria.

Please note that you will have to pass in each of the tests. However, since this is a competitive examination, mere passing is not adequate. You have to obtain a high rank in the order of merit. You should, therefore, put in your best efforts in the examination.

The on-line examination will comprise the following two objective type multiple choice tests.

Sr. No.	Name of Test	Number of Questions	Maximum Marks	Duration
I.	Comprehension, Reasoning and Analytical Ability	80	80	Composite Time of 180 Minutes
II.	Basic Mathematics	50	50	

The time for the test is 180 minutes; however you may have to be at the venue for approximately 4 hours including the time required for logging in, collection of the call letters, giving of instructions etc. The tests will be provided in English. You can attempt any question at any point of time within these 180 minutes. **There will be penalty for wrong answers marked in objective type test. For every question for which a wrong answer is marked, 1/4th of the marks allotted to that question will be deducted as penalty.**

You have to qualify in each of the tests separately. The qualifying criteria will be decided by the Institute.

(A) Details of the On-line Examination Pattern

- (1) The examination will be conducted on-line i.e. on a computer.
- (2) All tests will be in English.
- (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 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 Organization.
- (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 180 minutes, the candidates will not be able to attempt any question or check their answers.
- (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 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 in the call letter) on the day of the examination. Late comers will not be allowed.
- (3) The call letter must be brought with you to the examination venue along with your recent passport size photograph duly pasted on it. (Preferably the same photograph as was as uploaded).
- (4) You must scrupulously follow the instructions of the Test Administrator and Organization 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 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/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/E-adhar Card 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.** 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 Organization 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 of 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 Organization 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 required 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 6.
- (ii) One Ball point pen.

SAMPLE QUESTIONS

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.

TEST I

TEST OF COMPREHENSION, REASONING AND ANALYTICAL ABILITY

This test is designed to examine the candidate's verbal ability, analytical reasoning and quantitative skills.

Read the following passage and answer the questions Q1 to Q3.

Of the 197 million square miles making up the surface of the globe, 71 percent is covered by the interconnecting bodies of marine water; the Pacific Ocean alone covers half the Earth and averages nearly 14, 000 feet in depth. The *continents* - Eurasia, Africa, North America, South America, Australia and Antarctica - are the portions of the *continental masses* rising above sea level. The submerged borders of the continental masses are the *continental shelves*, beyond which lie the deep-sea basins.

The oceans attain their greatest depths not in their central parts, but in certain elongated furrows, or long narrow troughs, called *deeps*. The profound troughs have a peripheral arrangement, notably around the borders of the Pacific and Indian oceans. The position of the deeps near the continental masses suggest that the deeps, like the highest mountains, are of recent origin, since otherwise they would have been filled with waste from the lands. This suggestion is strengthened by the fact that the deeps are frequently the sites of the world-shaking earthquakes. For example, the "tidal wave" that in April, 1946, caused widespread destruction along Pacific coasts resulted from a strong earthquake on the floor of the Aleutian Deep.

Q.1. Which of the following would be the most appropriate title for the passage?

- (1) Features of the Earth's Surface
- (2) Marine Topography
- (3) The Causes of Earthquakes
- (4) Primary Geologic Considerations
- (5) How to prevent Erosion.

Ans. : (1)

Q.2. According to the passage, the peripheral furrows or *deeps* are found —

- (1) only in the Pacific and Indian oceans
- (2) near earthquakes
- (3) near the shore
- (4) in the centre of the ocean
- (5) to be 14,000 feet in depth in the Pacific.

Ans. : (3)

Q.3. From this passage, it can be inferred that earthquakes —

- (1) occur only in the peripheral furrows
- (2) occur more frequently in newly formed land or sea formations.
- (3) are a prime cause of soil erosion
- (4) will ultimately "make mountains level"
- (5) are caused by the weight of the water

Ans. : (2)

Q.4. Fill in the blanks with the pair of words that best fits the meaning of the sentence.

Though he claimed the business was, his irritabilitythat claim.

- (1) soundbelied
- (2) expanding supported
- (3) downsizing vindicated
- (4) static contradicted
- (5) booming affirmed

Ans. : (1)

Q.5. Select the pair that best expresses the relationship similar to the one in the original pair.

MODERATOR : DEBATE ::

- (1) legislator : election
- (2) chef : banquet
- (3) auditor : lecture
- (4) conspirator : plot
- (5) umpire : game

Ans. : (5)

Questions Q.6 to Q.8 are based on the following text.

The letters A, B, C, D, E, F and G, not necessarily in that order, stand for seven consecutive integers from 1 to 10.

D is 3 less than A.

B is the middle term.

F is as much less than B as C is greater than D.

G is greater than F.

Q.6. The fifth integer is—

- (1) A (2) C (3) D (4) E (5) F

Ans. : (2)

Q.7. A is as much greater than F as which integer is less than G ?

- (1) A (2) B (3) C (4) D (5) E

Ans. : (4)

Q.8. If A = 7, the sum of E and G is —

- (1) 8 (2) 10 (3) 12 (4) 14 (5) 16

Ans. : (2)

Q.9. If Elaine is on the steering committee, then she is on the central committee. This statement can be logically deduced from which of the following statements ?

- (1) All members of the central committee are on the steering committee.
(2) Elaine is on either the central committee or the steering committee.
(3) Everyone who is on the steering committee is also on the central committee.
(4) Some members of the central committee are on the steering committee.
(5) Elaine is on the steering committee.

Ans. : (3)

Questions Q.10 and Q.11 are based on the following statements

- (1) A causes B or C, but not both, (2) F occurs only if B occurs,
(3) D occurs if B or C occurs, (4) E occurs only if C occurs,
(5) J occurs only if E or F occurs, (6) D causes G or H or both,
(7) H occurs if E occurs, (8) G occurs if F occurs.

Q.10. If A occurs, which may occur ?

- I. F and G II. E and H III. D
(1) I only (2) II only (3) III only (4) I & II or II & III, but not both (5) I, II, and III

Ans. : (4)

Q.11. If J occurs, which must have occurred ?

- (1) E (2) Both E and F (3) Either B or C (4) G (5) Both B and C

Ans. : (3)

Test II

TEST OF BASIC MATHEMATICS

This test is designed to examine the candidate's mathematical abilities. The sample questions given below are suggestive.

Q.1. For each set A,

- (1) $\{A\} \subset 2^A$ (2) $\{A\} \not\subset 2^A$ (3) $A \notin 2^A$
(4) $A \not\subset 2^A$ (5) Other than those given as options

Ans.: (1)

Q.2. $\int x e^x dx$ is

- (1) $\frac{x^2}{2} e^x + x e^x$ (2) $e^x (x + 1)$ (3) $e^x (x - 1)$
(4) $\log x (x - 1)$ (5) Other than those given as options

Ans.: (3)

Q.3. $\lim_{x \rightarrow 0} \frac{e^x - 1}{x}$ is

- (1) Not defined (2) 1 (3) -1 (4) 0 (5) Other than those given as options

Ans.: (2)

Q.4. The slope of $f(x) = 5\sqrt{x} - \frac{\log x}{3}$ is

- (1) $\frac{5}{\sqrt{x}} - \frac{1}{3x}$ (2) $\frac{5}{2} x^{3/2} - \frac{e^x}{3}$ (3) $\frac{5}{2\sqrt{x}} - \frac{1}{3x}$
(4) $10 \times \frac{3}{2}$ (5) Other than those given as options

Ans.: (3)

Q.5. Given $f(x) = 2x^3 - 3x^2 - 36x - 10$, the function attains

- (1) minimum at $x = 4$ (2) maximum at $x = 3$ (3) minimum at $x = -2$
(4) maximum at $x = 6$ (5) Other than those given as options

Ans.: (5)

Q.6. If $\frac{5x + 2}{(1 + 3x)(1 + 2x)} = \frac{A}{1 + 3x} + \frac{B}{1 + 2x}$ then

- (1) $A = 1, B = -1$ (2) $A = -1, B = 1$ (3) $A = 2, B = 0$
(4) $\frac{A \pm B = 1}{3x}$ (5) Other than those given as options

Ans.: (4)

Q.7. $x + \frac{1}{2}x^2 + \frac{1}{3}x^3 + \dots$ is

- (1) $\log(1-x)$ (2) $\log \frac{1}{1-x}$ (3) $(1-x) - \frac{1}{2} - 1$
(4) $e^x - 1$ (5) Other than those given as options

Ans.: (2)

Q.8. The values of K for which the system of equations

$$x + y = 4$$

$$Kx + 2y + 3z = 1$$

$$2x + y + Kz = 5$$

does not have any solution, are

- (1) 1, 3 (2) -3, -1 (3) 3, -1 (4) 1, -3 (5) Other than those given as options

Ans.: (3)

Q.9.
$$\begin{vmatrix} 1 & 1 & 1 \\ 1 & 1+a & 1 \\ 1 & 1 & 1+b \end{vmatrix} =$$

- (1) 0 (2) $(1+a)(1+b)$ (3) ab (4) 1 (5) Other than those given as options

Ans.: (3)

Q.10. When the mean of a binomial distribution is 12 and the s.d. is 3, the probability of success, p is

- (1) $\frac{3}{4}$ (2) $\frac{1}{4}$ (3) $\frac{1}{2}$ (4) $\frac{1}{8}$ (5) Other than those given as options

Ans.: (2)

Q.11. The mean wage and s.d. of 150 men were Rs.60 and Rs.4 per week respectively and that of another 200 men were Rs. 90 and Rs.3 per week. The s.d. of the work force of 350 men considered as one group is

- (1) 9 (2) $\frac{32}{7}$ (3) 15.5 (4) 21.1 (5) Other than those given as options

Ans.: (3)

Q.12. A candidate is selected for interview for three posts. For the first post there are 3 candidates, for the second there are 4 candidates and for the third there are 2. The chance of him getting at least one post is

- (1) 0.75 (2) $\frac{1}{24}$ (3) $\frac{1}{8}$ (4) 0.25 (5) Other than those given as options

Ans.: (1)