

## SELECTION POLICY IN ADMISSION

### 1 Description of Admission Process for a Program Run by the Institute

Each applicant takes one or two written tests, the number of written tests being fixed for each program. Based on their performance in the written test(s) the applicants are called for interview. The decision to admit an applicant is based on a composite score derived on the basis of their performance in written test(s) and the interview. If a candidate fails to appear in any of the tests or the interview his/her candidature will be cancelled.

The final selection of an applicant is based on a stage-wise process. Each stage comprises

1. preparation of a score-list (i.e. list of scores obtained by all applicants or by applicants who are shortlisted from the previous stage),
2. Determination of Qualifying score  $q$  (if not pre-defined) from a predeclared number  $p$ : If a program has  $N$  seats then the score of the  $p.N$ -th candidate in the scorelist will be determined as the qualifying score  $q$  for that particular stage. The stage  $i$  values of  $p$  and  $q$  will be referred as  $p_i$  and  $q_i$  respectively.
3. Shortlisting by applying the Qualifying Score.
4. preparation of a list of applicants who have qualified to proceed to the next stage (hereafter referred to as shortlisted applicants).

Special Case of Written Test Waiver: Waiver of written test is granted to

- (i) applicants to B.Stat./B. Math. who are INMO (conducted by NBHM) awardees;
- (ii) applicants to M.Tech. (CS) and M. Tech (CrS) who have GATE scores 770 (out of 1000) or above.
- (iii) An applicant of a Junior Research Fellowship (JRF) programme who has obtained a Master's degree in the relevant discipline from Indian Statistical Institute with at least 75% in the aggregate without any back-paper or compensatory examination in any course during the entire programme, and is applying within two years of graduating, the written test will be waived.

All candidates for whom written tests are waived will be called directly for interview by the corresponding selection committee. If the candidates fail to appear in the interview their candidature will be cancelled.

All such candidates are also required to apply, like all other candidates, in the prescribed application form.

## 2 Preparation of Score Lists and Stage-wise short listing

### 2.1 Programs in which the first shortlist is based on Written Test I only - E.g. B.Stat(hons.)

- *First score list:* All answer scripts from Written Test 1 are graded. The tabulated score sheet of scores obtained in Written Test I by all candidates is the first score list.

– Stage I Short listing:

- \* Qualifying Score  $q_1$ , if not predefined, is determined by the pre-defined rule from  $N$  and  $p_1$  (see Section 1(2) above). This score will be deemed as GEN.
- \* The qualifying score for OBC-NCL will be  $0.9 \times q_1$  and the qualifying score for SC/ST/PwD will be  $0.7 \times q_1$ .
- \* All candidates whose scores are equal to or above the respective (category wise) qualifying score will be deemed to have been short listed in Stage I.

- *Second score list:* Written Test 2 answer scripts of candidates short listed in Stage I (see above) are graded. Weighted sum of scores for stage II (WSSII) is computed:

$$WSSII = A_1 \times \text{Written Test I Score} + B_1 \times \text{Written Test II Score}.$$

The tabulated score sheet of  $WSSII$  obtained by the candidates who were shortlisted in Stage I, is the second score list.

– Stage II Short listing:

- \* Qualifying Score  $q_2$ , if not predefined, is determined by the pre-defined rule from  $N$  and  $p_2$  (see Section 1 above). This score will be deemed as the GEN qualifying score  $q_2$ .
- \* The qualifying score for OBC-NCL will be  $0.9 \times q_2$  and qualifying score for SC/ST/PwD will be  $0.7 \times q_2$ .
- \* All candidates whose scores are equal to or above the respective (category wise) qualifying score will be deemed to have been short listed in Stage II.

- *Third score list:* All stage II shortlisted (see above) candidates will be called for interview. Weighted sum of scores for stage III (WSSIII) is computed:

$$WSSIII = A_2 \times \text{Written Test I Score} + B_2 \times \text{Written Test II Score} + C \times \text{Interview Score.}$$

The tabulated score sheet of *WSSIII* obtained by the candidates who were shortlisted in Stage II, is the third score list.

– Stage III Short listing:

- \* Qualifying Score  $q_3$ , if not predefined, is determined by the pre-defined rule from  $N$  and  $p_3$  (see Section 1(2)). This score will be deemed as the GEN qualifying score  $q_3$ .
  - \* The qualifying score for OBC-NCL will be  $0.9 \times q_3$  and qualifying score for SC/ST/PwD will be  $0.7 \times q_3$ .
  - \* All candidates whose scores are equal to or above the respective qualifying score will be deemed to have been short listed in Stage III.
- *Final Rank-ordered Merit List:* The tabulated score sheet of scores obtained by the candidates after stage III shortlisting is the Final Rank-ordered Merit List. From this ranking students will be offered admission to a program until the seats are filled in accordance with the **Reservation Policy** and **Admission Policy**.

## 2.2 Programs in which the first shortlist is based on Written Test 1 + Written Test 2. E.g. J.R.F.(Math)

- *First score list:* All answer scripts from Written Test 1 and Written Test 2 are graded. The tabulated score sheet of scores obtained in Written Test I and Written Test 2 by all candidates is the first score list.

– Stage I Short listing:

- \* The Qualifying Score  $q_1$  for Test I and qualifying score  $q'_1$  for Test II are determined, if not predefined, by the predefined rule. These will be deemed as the GEN qualifying score.
  - \* The qualifying score for OBC-NCL will be  $0.9 \times q_1$  in Test I and  $0.9 \times q'_1$  in Test II. The qualifying score for SC/ST/PwD will be  $0.7 \times q_1$  in Test I and  $0.7 \times q'_1$  in Test II.
  - \* All candidates whose scores in Test I and in Test II are equal to or above the respective (category wise) qualifying score will be deemed to have been short listed in Stage I.
- *Second score list:* Weighted sum of scores for stage II (WSSII) is computed for all candidates short listed in Stage I:

$$WSSII = A_1 \times \text{Written Test I Score} + B_1 \times \text{Written Test II Score.}$$

The tabulated score sheet of  $WSSII$  obtained by the candidates who were shortlisted in Stage I, is the second score list.

– Stage II Short listing:

- \* The qualifying score  $q_2$ , if not predefined, is determined by the pre-defined rule from  $N$  and  $p_2$  (see Section 1(2)). This will be deemed as the GEN qualifying score  $q_2$ .
  - \* The qualifying score for OBC-NCL will be  $0.9 \times q_2$  and qualifying score for SC/ST/PwD will be  $0.7 \times q_2$ .
  - \* All candidates whose scores are equal to or above the respective (category wise) qualifying score will be deemed to have been short listed in Stage II.
- *Third score list:* All stage II shortlisted (see above) candidates are called for interview. Compute Weighted sum of scores for stage III ( $WSSIII$ ):

$$WSSIII = A_2 \times \text{Written Test I Score} + B_2 \times \text{Written Test II Score} + C \times \text{Interview Score.}$$

The tabulated score sheet of  $WSSIII$  obtained by the candidates who were shortlisted in Stage II, is the third score list.

– Stage III Short listing:

- \* The qualifying score  $q_3$ , if not predefined, is determine from the pre-defined rule from  $N$  and  $p_3$  (see Section 1(2)). This will be deemed as the GEN qualifying score  $q_3$ .
  - \* The qualifying score for OBC-NCL will be  $0.9 \times q_3$  and qualifying score for SC/ST/PwD will be  $0.7 \times q_3$ .
  - \* All candidates whose scores are equal to or above the respective qualifying score will be deemed to have been short listed in Stage III.
- *Final Rank-ordered Merit List:* The tabulated score sheet of scores obtained by the candidates after stage III shortlisting is the Final Rank-ordered Merit List. From this ranking students will be offered admission to a program until the seats are filled in accordance with the reservation policy.

### 2.3 Placement of candidates for whom the Written Tests are waived

- Applicants of B. Stat (Hons) and B. Math (Hons) programmes who are INMO awardees will be directly called for interview. If  $UGA_{max}$  and  $UGB_{max}$  are the maximum scores in the UGA and UGB scorelists of all candidates appearing for the Written Tests, then the INMO candidates will be placed on the top of the UGA and UGB score lists with scores  $UGA_{max}$  and  $UGB_{max}$  respectively. The scorelists for B.Stat and B.Math programmes will be dealt separately.

- Candidates applying for M. Tech (CS) or M. Tech (CrS) and having a GATE score 770 (out of 1000) or above will be directly included in second scorelist after converting their GATE score as per the following rule: If the GATE score of a candidate is  $x$  then the equivalent score  $y$  will be computed as

$$y = (WSSII_{max} - WSSII_{min}) * (x - GATE_{min}) / (GATE_{max} - GATE_{min}) + WSSII_{min},$$

where  $WSSII_{max}$  and  $WSSII_{min}$  denote the maximum and the minimum of the scores in the WSSII scorelist (see Section 2.1) for the M. Tech(CS) and/or M. Tech(CrS).  $GATE_{max}$  and  $GATE_{min}$  denote the maximum and the minimum of the GATE scores of all applicants for whom the Written Tests are waived. All these candidates will be added to the second score list with converted score  $y$ . The second Shortlisting will be done on the combined list.

WSIII scores of the candidates short-listed in Stage II for whom the ISI Written Tests are waived will be computed as

$$WSIII = y + C \times \text{Interview Score}.$$

- For an applicant of a Junior Research Fellowship (JRF) programme who has obtained a Master's degree in the relevant discipline from Indian Statistical Institute with at least 75% in the aggregate without any back-paper or compensatory examination in any course during the entire programme, and is applying within two years of graduating, the written test will be waived.

These candidates will be placed with fixed scores in the scorelists of Written Test I and Written test II prescribed for the programme applied for. The score of all such candidates in Written Test I and Written Test II will be computed as

$$\frac{3}{4} \times WT_{max},$$

where  $WT_{max}$  is the total marks in the ISI Written test (Written Test I or Written test II) prescribed for the programme.

## 3 Remarks

### 3.1 Declarations of parameters

1. The weights of Written Tests in Stage III, namely  $A_2$  and  $B_2$ , for M. Tech (CS) and M. Tech (CrS) will remain the same as the weights  $A_1$  and  $B_1$  in Stage II.
2. The ratio  $[C \times \text{Interview Score}] : [A_2 \times \text{Test I Score} + B_2 \times \text{Test II Score} + C \times \text{Interview}]$  will not exceed 0.25 for non-JRF Programs. For JRF programs this ratio will not exceed 0.5.

### **3.2 Lists: Preparation/Publishing**

- 1.
2. Not all stages under 2.1 and 2.2 are mandatory; A selection process may have less number of stages. However, scores of all written tests and interview must contribute towards the final selection of a candidate.
3. If a candidate is shortlisted at any stage under relaxed reservation norms then the candidate (if shortlisted in future stages) shall remain on the reserved category lists.

### Parameter values

Programme	Seats (N)	Maximum Marks			Stage 1			Stage 2				Stage 3			
		Test I	Test II	Interview	p1	q1	q1/	A1	B1	p2	q2	A2	B2	C	p3
B. Stat (Hons)	50	120	80	10	7			1	3	2		1	3	10	1.3
B. Math (Hons)	50	120	80	40	10			2	9	2.5		2	9	6	1.5
M. Stat	30	120	120	120	6.5			1	2	1.8		1	2	1	1.2
M. Math	20	120	100	20	8			1	4	2.5		1	4	8	1.5
MS LIS	10	120	120	40	7			1	2	5.5		2	2	1	1.5
MS QMS	16	120	120	50	4			1	2	1.5		1	2	2	1.5
MS QE (Delhi)	27	120	120	120	4			2	3	5/3		2	3	1	10/9
MS QE (Kolkata)	18	120	120	120	4			2	3	5/3		2	3	1	10/9
M. Tech (CS)	35	120	100	40	8			1	2	4		1	2	2	1.4
M. Tech (CrS)	20	120	100	40	8			1	2	4		1	2	2	1.4
M. Tech (QROR)	25	120	120	120	4			2	3	1.12		3	5	2	1.04
PGD SMA	30	120	NA	20	1.6			1	NA			1	NA	2	17/15
PGD CA	15	120	NA	30	2			1	0			1	0	1	1.4
JRF Math	9	100	100	100		20	20					1	1	2	1.2
JRF Stat	9	120	120	100		15	15	2	3	5/3		2	3	4	4/3
JRF Physics	2	120	100	50		44			1		38	0	1	1	2.5
JRF QROR	2	120	120	50	5			1	2	2.5		1	2	3	1.5
JRF Geo	1	120	100	100		40		10	10	4		10	10	10	2
JRF LIS	2	120	100	110		20		1	1	3		2	2	1	1.5
JRF CS	24+5*	120	100	40				1	3	2		1	3	3	1.2
JRF(QE)	5	100	100	100	10			1	1	5		1	1	2	4
JRF BS	1	120	90	100	30			1/3	2/3	6		1/4	1/2	1/4	2

\*For the R C Bose Centre for Cryptology and Security