

9 Examination System

A. COURSE WORK

9.1 Grading in 10 Point OGPA System

9.1.1 The Post Graduate School has adopted 10 point OGPA scale from the academic session 2001-2002.

The main highlights of the 10 point OGPA scale are as under:

OGPA	Description of Performance
9.0 to 10.0	(90 to 100%) I st Class with distinction
8.0 to 8.99	(80 to 89%) I st Class
7.0 to 7.99	(70 to 79%) II nd Class
6.0 to 6.99	(60 to 69%) Pass
Below 6.00	(less than 60%) Fail (F)
Incomplete	I

9.1.2 Minimum requirement of OGPA:

- i) For passing a course and to continue on the PG School rolls = 6.0
- ii) For obtaining the degree = 6.5
- iii) For competing for IARI Merit Medal = 8.0 and above

All M.Sc./M.Tech./Ph.D. students will be required to maintain the minimum OGPA as mentioned above.

9.1.3 The minimum OGPA (cumulative) for continuing in the Post Graduate School shall be earned at the end of the third trimester. A student who fails to satisfy this requirement shall not be permitted to continue in the Post Graduate School. This rule shall be relaxed with the approval of the Academic Council in special cases, if the student concerned has made a substantial improvement in

his/her OGPA by attaining the minimum OGPA of 6.00 out of 10.00 or above on a course load of 9 credits or more during the third trimester. This average of 6.00 out of 10.00 shall be earned in courses taken in the subsequent trimesters until the minimum cumulative OGPA of 6.00 is attained.

Note: Students who do not obtain minimum OGPA at the end of the III trimester may be permitted by the Dean to continue in the IV trimester provided he is satisfied on the recommendations of the Advisory Committee that the concerned student has the potential to improve his/her grade by the IV trimester.

- 9.1.4**
- (i) By the end of the VI trimester of his/her residence in the School, the student shall have to attain cumulative OGPA of 6.50 out of 10.00.
 - (ii) The payment of scholarship/fellowship should be reviewed at the end of III trimester and only those students will be permitted to continue getting scholarship/fellowship who maintain the OGPA of 6.50 out of 10.00 at the end of third trimester.
 - (iii) Student failing to attain this level shall not be permitted to continue or qualify for the degree at the Post Graduate School.
 - (iv) Dean shall himself dispose off requests for continuation beyond the VI trimester in the cases where the OGPA of the student concerned falls short of the prescribed minimum requirement by not more than 0.1. The case of the student whose OGPA deficiency exceeds 0.1 may not under any circumstances be considered for

continuation beyond the VI trimester and shall not be referred to the Academic Council for relaxation.

9.1.5 The prescribed “continuing OGPA” and “passing OGPA” shall have to be earned and maintained subsequently by the end of their III and VI trimesters of admission, respectively by the Departmental students also.

9.1.6 A student may repeat once a course in which he/she gets a OGPA below 6.50 out of 10.00 and that too on the recommendation of the Advisory Committee. In case a course is repeated, the grade obtained on repetition alone shall be counted for calculating the overall grade point average. The transcript will reflect all the courses taken including the courses repeated.

9.2 Trimester Examinations

9.2.1 All students shall have to take examinations given by the instructors concerned in the various courses registered by them in that particular trimester both in the major and minor fields. The types of examinations and the weightage attached to each, including practicals shall be announced by the Course Leader at the commencement of the trimester. Generally, the examination shall be of the following types:

- (i) Short quizzes (announced and unannounced) to be held periodically.
- (ii) Mid-term examination to be held between the sixth and seventh week of commencement of the trimester.
- (iii) Term paper(s) as may be decided by the Course Leader. The term papers given should be presented in the class.
- (iv) Final trimester examination: The written and practical examinations held at the end of each course should be followed by an oral discussion with the student before the marking is done.

9.2.2 A schedule of final trimester examination for each trimester shall be circulated by the Post Graduate School.

9.2.3 In order to check use of unfair means at the various examinations, the following regulations shall be followed:

- (i) The invigilation at the examination shall be done by the instructor himself/herself and not by anybody else.
- (ii) A student found adopting unfair means at the examination for the first time shall be declared ‘Fail’ in that course by the instructor himself/herself. The decision of the instructor shall be final. A report should be sent to the Dean, Post Graduate School by the instructor through the Professor of the discipline concerned.
- (iii) In case a student is found adopting unfair means at the examination for a second time, he/she shall be declared ‘Fail’ in that course by the instructor himself/herself and the matter reported to the Dean. The Dean shall take action for rustivating him/her from the Post Graduate School for one year.
- (iv) A student adopting unfair means at the examination for the third time shall be expelled from the Post Graduate School by the Dean.
- (v) In case a departmental student is found adopting unfair means at the examination, apart from taking action as mentioned above, the matter shall also be reported to the competent authorities for initiating action for violation of conduct rules with particular reference to the provision requiring a high code of conduct and behaviour from public servants.

9.2.4 The instructor shall be responsible for judging the student’s performance and their mastery of the material covered in the various courses taken by them through a system of quizzes, term papers, mid-term examination and a final examination. The Course Leader shall, as a rule, show the answer books to the students in respect of the various examinations and discuss the same with them. For facilitating this discussion, the course instructors may themselves declare results at the end of the evaluation and discussion with students shall be completed within two days of such declaration and the results communicated to the Post Graduate School in the proforma at Annexure VIII within 7 days of the examination. The course instructor shall certify that the types of examinations and

the weightage attached to each course including practicals had been announced by him at the commencement of the trimester. The Course Leader will deposit the answer books with the Professor concerned. The copies may be retained for at least one year by the Professor.

9.2.5 A student failing to attain the prescribed minimum of 85 per cent of attendance separately in lectures and practicals in any course shall not be permitted by the instructor concerned to sit for the final trimester examination for that course without prior approval of the Dean as per Para 8.16.

9.2.6 All examinations prescribed shall be taken by the student and absence from examination shall not be permitted without valid reasons such as illness, to be certified by the Institute's Medical Officer. The student, however, has to obtain written permission from the instructor concerned before absenting himself from any examination.

9.3 Make-up Examination

9.3.1 The following guidelines shall be followed while giving make-up examination:

- (i) *Quizzes* : No make-up test *in lieu* of missed quizzes shall be allowed. In exceptional circumstances when a student misses quizzes in a trimester on account of illness or any other bonafide cause and the leave of absence has been duly sanctioned, the Dean may, on the recommendation of the Course Leader/ Chairperson concerned, permit that the grades of the student be determined on the basis of his/her performance in the remaining examinations after excluding the total marks of the quizzes missed.
- (ii) *Mid-term examination* : Make-up examination shall ordinarily be given *in lieu* of only one mid-term examination missed by the student in exceptional circumstances. The make-up examination shall be given only after the Dean has accorded his permission to the student to take the make-up examination. Such make-up examination shall be completed before the end of the eleventh week of the trimester. A make-up examination shall be given at one time only

to all such students. It shall be the responsibility of the student concerned to present himself before the Course Leader for the make-up examination at the end of the examination missed. After obtaining the necessary permission of the Dean, the instructor shall fix a suitable date and time for the make-up examination.

(iii) *Final trimester examination* : Normally no make-up examination shall be permitted *in lieu* of the missed final trimester examination except with the approval of the Dean and subject to the following conditions:

- (a) If a student fails to appear at any final trimester examination for really valid reasons, such as illness, an application shall be filed with the Course Leader on the very date on which the examination is missed.
- (b) The application for make-up examination must be supported with the medical certificate from the Institute's Medical Officer and the report should be routed through the Master of Halls of Residences and the Chairperson concerned.
- (c) No application for make-up examination shall be considered if it is not received within 24 hours from the expiry of last date of the final trimester examination.
- (d) The make-up examination for the final trimester examination missed shall be held within 15 days of the starting of the following trimester.
- (e) The grade awarded in make-up examination shall carry notation 'X' with the remarks that this grade has been obtained by appearing in make-up examination and such shall not be considered for the award of the IARI Merit Medal.

9.3.2 If a student had to drop a course on valid and bonafide medical grounds after the last date prescribed for such purpose and without completing 85% of the attendance, the student

shall be given 'I' grade, i.e. "Incomplete", and may be allowed to repeat that course. The "I" grade shall be entered in the transcript also. In all other cases of dropping of courses after the prescribed date, the student shall be declared 'Fail' in the course. No adding/dropping is allowed after the last date prescribed for this purpose.

9.3.3 The time for adding/dropping of courses included in the roster after registration will be 15 days.

9.3.4 In case a student could not take the mid-term or final examination, or make-up examination, average of the marks obtained by him/her in all the examinations held in the trimester shall be taken under intimation to the Post Graduate School office. For purposes of averaging, all examinations including the ones missed shall be taken into consideration and the examination missed shall be awarded zero mark.

9.4 Grade Cards

9.4.1 The PG School shall enter the results of the trimester examinations in a register and shall issue a grade card (proforma at Annexure IX) to each student at the end of every trimester indicating the grades obtained in the courses offered in that trimester.

9.4.2 Any discrepancy in the grade card issued shall be reported to the Post Graduate School within 30 days of the issue of the grade card.

9.4.3 Individual cases where 'F' (Fail) grade has been shown in the grade card may be reconsidered for the deletion of the grade if it is conclusively proved within 30 days of the issue of the grade card that a student had not undertaken the examination in that course on the advice of his/her major advisor.

9.5 Transcript

A transcript in the prescribed proforma (Annexure X) showing the cumulative performance of the student in course work shall be issued, on request, by the Post Graduate School at the completion of the entire course work. If a student wants a transcript even before completion of the course work, the same shall be issued to

him/her on payment of the prescribed charges and on proper justification.

B. QUALIFYING EXAMINATION

9.6 Proposal for Holding Qualifying Examination

9.6.1 After having successfully completed the major portion of the course work required (at least 75%) as judged from the minimum average grade point prescribed for passing (6.50 out of 10.00), a pre-comprehensive oral examination shall be held by a common departmental committee to be nominated by the Board of Studies of the discipline. The pre-comprehensive oral examination shall be conducted only after the student has successfully completed the written qualifying examination in the major and/or minor fields. Thereafter, a qualifying examination shall be held to test each student's general mastery of the concerned scientific discipline and his/her general fitness for becoming a candidate for the degree.

Note: The pre-qualifying examination should be held only once and if it is clear that the student is not ready for the final qualifying examination, it is obvious that sufficient time should be given to him/her to prepare for it. Normally it will be very difficult, if not impossible, for a student to overcome the weakness over a period of two to three weeks. It may take as much as two to six months for the required preparation. This fact should be kept in view while determining the date for the qualifying examination based on the pre-qualifying performance.

The common departmental examination committee which may be nominated by the respective Board of Studies should include, besides the Professor and the Head of the Division, faculty members representing all the major fields/sub-disciplines and also the Chairperson and in his absence the second member of the Advisory Committee of the student appearing in the pre-qualifying examination. The strength of the committee shall not exceed 6-7 members including the Chairperson who shall normally be the Professor, and in his absence, the Chairperson of the Advisory Committee of the student.

The Board of Studies may prescribe a time gap shorter than 2 months for holding the qualifying examination in the case of M.Sc./M.Tech. students.

9.6.2 The Chairperson of the Advisory Committee shall forward a proposal in the prescribed proforma (Annexure XI) to the Professor of the discipline concerned for holding qualifying examination of the concerned student after completion of 75% of the course work both in the major and minor fields (as already listed in his/her approved PPW), indicating therein the schedule of examination including the proposed dates of written and *viva-voce*. The Chairperson of the Advisory Committee shall suggest a panel of 3 names for considering the co-opted member of the examination committee for the qualifying examination to which the Professor shall add two more names before forwarding the panel to the Dean. The Head may also, if he/she likes, add any names to the above panel. Where the Professor himself is the Chairperson of the Advisory Committee, the Professor will suggest three names and the Head shall suggest two more names for the panel. Similarly, when the Head is the Chairperson, he/she would suggest the first three names and Professor shall suggest two more names for the panel.

9.6.3 After examination of each student's record, permission of the Dean shall be conveyed to the Professor under intimation to the Chairperson concerned to proceed with the qualifying examination. The qualifying examination should normally be completed within a period of three months from the date of issue of the letter from Post Graduate School permitting such an examination.

9.6.4 The Dean shall also nominate the co-opted member in the examination committee and take such action as may be required in arranging for the participation of the co-opted member.

9.7 General Requirements for Qualifying Examination

9.7.1 The examination shall be both written and oral, the written test to precede the oral. The oral examination shall be held only after the student

has successfully completed the written examination.

9.7.2 The written qualifying examination in the major field both for the M.Sc./M.Tech. and Ph.D. shall be arranged/evaluated externally as per the following terms:

	Master's Programme	Weightage	Doctoral Programme	Weightage
Major subject	One paper	50%	Two papers: at least one paper by external examiner	50% (25% each)
Minor subject	One paper	25%	One paper	25%
Viva voce	Internal	25%	External	25%
Qualifying marks	60%		60%	
Paper setting	Internal		Internal	
Evaluation Grading	External 2 Credit Grade 0-10 Scale		External 2 Credit Grade 0-10 Scale	

9.7.3 The qualifying examination can be held at any time during the academic year, including the summer vacation.

9.7.4 For holding qualifying examination and final *viva-voce*, notice of a minimum period of 10 days shall be given and no prior approval of the members of the Advisory Committee shall be required. Faculty members shall so arrange their programme that they are present at the time of the student's examination. No last minute substitution in the Advisory Committee of students will be made at the time of examination except in special cases with the permission of the Dean.

9.7.5 The qualifying examination shall be given at least 3 months before the date of completion of the student's programme of studies (i.e. the date on which the final *viva-voce* examination is held) in the case of M.Sc./M.Tech. students and six months in advance in the case of Ph.D. students.

Note: The Dean is empowered to relax this rule on the recommendation of the respective Board of Studies in suitable cases.

9.7.6 After having successfully completed the major portion of the course work required (at least 75%) as judged from the minimum average grade point prescribed for passing (6.50 out of 10.00) for M.Sc./M.Tech. and Ph.D. students, the departmental students shall appear for qualifying examination in not later than the V trimester.

9.7.7 Any member of the Post Graduate faculty shall have the option to attend the *viva-voce* of any student as an observer.

9.8 Qualifying Examination for M.Sc./M.Tech. Students

The written qualifying examination for M.Sc./M.Tech. students shall consist of one or more papers, each of not more than three hours duration, covering suitably the subject matter of the courses taken by the student in the major field and one paper of two hours duration covering the minor field. The papers shall be set and evaluated in accordance with the procedure as given in para 9.7.2. The paper in the minor field shall be set and evaluated by the member of the student's Advisory Committee representing the minor field., The oral qualifying examination shall be conducted by the Advisory Committee with one additional member designated by the Dean from among the faculty members of IARI, but from a discipline other than the student's major field.

9.9 Qualifying Examination for Ph.D. Students

The written qualifying examination for Ph.D. students shall cover, besides the courses taken by the student in major and minor fields, all aspects of the major discipline of study in which the degree is to be awarded, irrespective of the particular courses taken in the discipline. There shall be three or more written papers, one or more each of three hours duration covering the major field and one each of two hours duration covering the two minor fields. For Ph.D. programmes, the papers for the written examination in the major fields shall be set and evaluated in accordance with the procedure as given in para 9.7.2. The papers in the minor field shall be set and evaluated by the members of the student's Advisory Committee representing the

minor field. The oral qualifying examination for Ph.D. shall be conducted by the Advisory Committee with one additional member who will be designated by the Dean and shall be a specialist in the student's major field but from outside the IARI and its Regional Research Station.

9.10 Report on the Performance in Qualifying Examination

9.10.1 The Chairperson of the student's Advisory Committee shall act as Chairperson of the Examining Committee and shall be responsible for communicating the results of the examination through the Professor to the Dean, in the prescribed form (Annexure XII) and with the signatures of all the members of the Examining Committee.

9.10.2 The student's performance in the qualifying examination may be considered satisfactory on the unanimous recommendation of the Examining Committee. It shall be within the competence of the Committee to indicate deficiencies in the student's course work and overall training at this stage and the Committee may recommend that the student makes up these deficiencies in any suitable manner.

9.11 Qualifying Re-examination

9.11.1 A student failing in one or more subjects in the written examination shall be re-examined only in that/those subjects and the *viva-voce* shall be held only after the written examination is successfully completed, provided that there is not more than two months gap between the written examination and the *viva-voce*. If a student fails in the *viva-voce*, the Examination Committee shall make specific recommendation as to whether the student is to be re-examined in the *viva-voce* alone or in the written portion also.

9.11.2 A student failing in the qualifying examination shall apply for permission to appear for a second time to the Dean with the recommendation of the Chairperson of the Advisory Committee. Permission to appear for a second time may be given, but re-examination shall not take place earlier than three months after the first examination. Re-examination for a third time is not permitted and a student failing for a second

time cannot continue or qualify for a degree from the Post Graduate School.

9.12 Admission to Candidacy

A student who has passed qualifying examination shall be admitted to candidacy for the degree and formal intimation to this effect shall be communicated to the student, through the major adviser and the Professor.

C. THESIS SUBMISSION, EVALUATION AND FINAL *VIVA VOCE*

9.13 Topic of the Thesis, its Standard and Format

9.13.1 The topic of thesis shall fall within the major field of specialisation in which the student has been admitted. The subject of thesis shall have the approval of the student's Advisory Committee and the Dean at the time of formulation of the student's plan of post-graduate work (PPW). The thesis shall be based on the results of the student's own work.

9.13.2 The thesis of the Master's degree should be of such nature as to indicate a student's potentiality for conducting research. The thesis for Ph.D. must indicate that the candidate possesses the ability and imagination necessary to do independent constructive thinking and should be of the nature of a definite contribution to the subject, and the results and the conclusions presented should be of sufficient importance as to merit publication.

9.13.3 It shall contain chapters on Introduction, Background, Materials and Methods, Results in the form of research papers, Discussion, Conclusions and Literature Citations.

9.14 Submission of Thesis

9.14.1 (i) A student shall submit a proposal for submission of the thesis in the prescribed proforma (Annexure XIII) to the Chairperson at least two months before the proposed date of actual submission of the thesis. This shall be signed both by the Professor and the Head of the Division with comments, if any, and shall be forwarded by the Professor to the Dean in sealed cover.

(ii) The Chairperson of the Advisory Committee shall suggest a panel of three names for the nomination of the outside examiner for evaluation of thesis to which the Professor shall add two more names before forwarding the panel to the Dean. The Head may also, if he likes, add any names to the above panel. Where the Professor himself is the Chairperson of the Advisory Committee, the Professor shall suggest three names and the Head shall suggest two more names for the panel. Similarly, when the Head is the Chairperson, he shall suggest the first three names and the Professor shall suggest two more names for the panel.

9.14.2 A student shall deliver a seminar on his/her thesis research problem before the submission of thesis and all the faculty members may be invited to participate in the discussions and make constructive criticism of the thesis. The provision has been prescribed more as a guideline and the actual details of implementing it shall be left to the various disciplines.

9.14.3 All the Ph.D. students shall write at least two quality research papers for publication before submission of their thesis and the copy of at least one paper published or accepted for publication in the referred journal of repute with NAAS rating of not less than 3.50 out of 10.00 at the time of submission of thesis to the PG School. In the absence of these papers, their thesis will not be accepted for further processing.

9.14.4 The candidate shall be required to complete and submit the thesis to the Professor of the discipline concerned along with "No Dues Certificate" and other formalities. The thesis shall be forwarded by the Professor to the Post Graduate School without any further examination of its contents.

9.14.5 The thesis shall be submitted in a bound form as per the guidelines given below:

- (i) The thesis shall be prepared in the form of research papers.
- (ii) The thesis shall have a first general 'Introduction' chapter including objectives,

which may be followed by 'Background' chapter, 'Materials and Methods' chapter, 'Results' chapter in the form of a set of research papers, 'General Discussion' chapter, 'Summary and Conclusion', 'Abstracts' (English and Hindi), 'Bibliography' and 'Appendix'.

- (iii) Each research paper may be self contained in its title, introduction (including review of literature), materials and methods, results, discussion and summary/abstracts.
- (iv) The bibliography may be common to avoid duplication in the different papers.
- (v) There shall be a final chapter summarizing the conclusions from all the research papers proposed and included in the thesis.
- (vi) Since it is mandatory to submit at least 2 research publications for Ph.D. thesis, one research paper should have been accepted and second submitted for publication in referred Journal of repute with NAAS rating of not less than 3.5 out of 10.0 or one patent filed out of the thesis work. The acceptance certificate/reprint of the paper published shall be included in the thesis.

The thesis shall be reviewed in the light of the comments of the external examiner (as per the evaluation format given at Annexure XXI) by the Examining Committee. In case, the external examiner suggests modifications/re-submission of the thesis, and these are not acceptable to the student, he/she may be permitted to defend his/her thesis at the time of the final *viva-voce*, and such of the modifications as are finally agreed upon may be carried out after the *viva-voce*.

9.14.6 The Chairperson of a student's Advisory Committee shall ensure that all members of the Advisory Committee are duly consulted before the draft thesis is submitted by the student. In cases where the student's Advisory Committee has been reconstituted or Chairperson changed, the student shall clearly indicate the name of the previous Chairperson and the period for which he served as Chairperson.

9.14.7 The thesis shall be accompanied by certificates duly endorsed by the major adviser to

the effect that: (a) the thesis is the result of the student's own work, and (b) the contents, while being submitted for the award of the degree, have not been published, in part or in full, even in annual reports of the Institute or of schemes financed by the Indian Council of Agricultural Research, the Council of Scientific and Industrial Research etc. However, if a student and the major advisor so desire, a part of the thesis may, with the prior approval of the Dean, be published prior to submission of thesis for establishing priority.

9.14.8 Each M.Sc./M.Tech./Ph.D. student should submit four copies of the thesis, of which one copy would eventually be deposited in the Post Graduate School, other with the Central Library, another in the Divisional library and the fourth with the major adviser. The student should also submit the thesis in PDF format to library. The student shall also submit with the thesis five copies of the abstract of the thesis (both in English and Hindi), neatly typed (about 500 words). The abstract shall be of high quality and properly edited after perusal by the Examining Committee. The abstract of the thesis submitted by the students should be carefully scrutinised by the Professor concerned and sent to the Post Graduate School after editing.

9.15 Evaluation of Thesis for the Award of M.Sc./M.Tech. Degree

9.15.1 The thesis submitted in partial fulfillment of the M.Sc./M.Tech. degree shall be evaluated by an Examining Committee composed of the student's Advisory Committee and an additional member, with the major adviser as Chairperson. The additional member shall be a specialist in the student's major field of study and shall ordinarily be appointed by the Dean from a panel of three names of specialists in the particular field in India submitted to him confidentially from the discipline concerned, but outside the IARI and its sub-stations.

The Dean shall have the discretion to select the additional member from outside the standing panel of specialists suggested by the discipline after consulting the concerned Head of the Division, Professor and the Chairperson of the Advisory Committee. The additional member shall send his/her report directly to the Dean.

9.15.2 In case the additional member does not recommend the thesis for the award of the degree, the Dean may on the special recommendation of the Advisory Committee refer the thesis for scrutiny and independent judgment to a second additional member chosen and appointed by the Dean either from the original panel or from outside the original panel. If the second member recommends the thesis for acceptance, this recommendation may be accepted. If however, opinion is still not unanimous the degree shall not be awarded. In such cases the student shall have the option to continue the work, rewrite the thesis and submit it once again after the lapse of at least one trimester but not for a third time.

9.15.3 A final *viva-voce* shall be held by the Advisory Committee after the receipt of the full report of the additional member and after thesis is recommended by the Examining Committee for consideration. The result of the *viva-voce* examination shall be sent in the prescribed proforma given at Annexure-IV. The report of the dissenting examiner if any, shall also be considered by the Examining Committee at the time of the final *viva-voce*. A notice shall be displayed on the notice board of each discipline regarding the date and time of the final *viva-voce* of each student so that interested faculty members may attend the same.

9.15.4 The degree shall be awarded on the unanimous recommendation of the Examining Committee. The Chairperson shall send the recommendations of the Examining Committee to the Dean in the prescribed form.

9.16 Evaluation of Thesis for the Award of Ph.D. Degree

9.16.1 The thesis of the Ph.D. students shall be sent to two external experts for evaluation as per the existing guidelines. However, the student shall give a seminar in the presence of external expert(s) and other members of the discipline/ division concerned.

9.16.2 The thesis submitted in partial fulfillment of the Ph.D. degree shall be read and examined by an Examining Committee appointed by the Dean and composed of the Advisory Committee and

an additional members (co-opted). The major adviser shall be the Chairman of the Examining Committee. The additional member shall be from outside the IARI and its sub-stations. He/She shall ordinarily be chosen by the Dean from a panel of at least five names of specialists in the particular field which shall be submitted to him by the concerned discipline confidentially. The Dean shall, however, have the discretion to select the additional members from outside the standing panel of such specialist suggested by the discipline, after consulting the concerned Head of the Division, Professor and the Chairperson of the Advisory Committee or from the examiners bank of the concerned discipline maintained by the PG School. The additional members shall send their reports on the thesis directly to the Dean.

9.16.3 In case the reports of both the additional members are unfavourable, the thesis shall not be considered for award of the degree. In case of only one unfavourable report, the Dean, may, on the recommendation of the Advisory Committee refer the thesis for scrutiny and independent judgment to a third additional member chosen and appointed by the Dean either from the original panel or from outside the original panel, after consulting the concerned Head of the Division, Professor and the Chairperson of the Advisory Committee. If the third additional member recommends the thesis for award of the degree, this recommendation may be accepted provided at least one of the two other original additional members, who have read the thesis also agree with this recommendation. If not, the thesis shall not be considered for the award.

9.16.4 If a thesis is not accepted for the award of the degree, the candidate may be permitted to continue the work by rejoining the Post Graduate School within a period not exceeding six months from the date of communication of the rejection of the thesis and submit it once again after the lapse of at least one trimester after rejoining the Post Graduate School.

9.16.5 After a student's thesis for the Ph.D. degree is evaluated and recommended by both the examiners for award of degree, the thesis shall be finally accepted for the award only after the student completes satisfactorily a final *viva-voce*, which shall

be conducted by the student's Advisory Committee with the addition of one of the additional members who evaluated the thesis and recommended it for the award of the degree. The *viva-voce* shall be conducted only on the basis of the full report of the examiner, and not on the basis of the intimation of the approval of the thesis. The report of the dissenting examiner, if any, shall also be considered by the Examining Committee at the time of final *viva-voce*. The *viva-voce* shall relate mainly to the thesis problem; the Examining Committee shall, however, be free to test the student in his/her major and minor fields of study. The candidate shall be expected to defend the thesis at the oral examination. A notice shall be displayed on the notice board of each discipline regarding the date and time of the final *viva-voce* of each student so that interested faculty members may attend the same.

9.16.6 The degree shall be awarded on the unanimous recommendation of the Examining Committee taking into consideration the merit of thesis itself and the performance of the student in the final *viva-voce*. The recommendation of the Committee shall be forwarded by the Chairman to the Dean in the prescribed form (Annexure XIV) which shall be signed by all members of the Examining Committee.

9.17 Re-examination in the case of Failure in Final *Viva-voce*

9.17.1 A student who fails in the final *viva-voce* examination may apply again to the Dean with the recommendation of the Chairperson of the Advisory Committee for permission to appear a second time. Permission to appear for the second time may be given but the re-examination shall not take place earlier than three months after the first examination and it will be conducted by the committee as previously constituted, as far as possible. Re-examination for third time is not permissible and a student who fails for a second time cannot continue as a student in the PG School and qualify for a degree from the Post Graduate School.

9.17.2 The particulars of the candidates who have successfully completed all the requirements shall

be placed for approval before the Academic Council. After the Academic Council declares the candidates eligible for the award of the respective degrees of the Institute, a notification containing the names of the candidates so declared eligible, along with the title of their thesis, shall be issued by the Post Graduate School. The award of the degree shall be made at the next Convocation of the Institute.

9.18 Venue of Examination

No examination would be conducted outside the IARI campus without obtaining prior written permission of the Dean.

9.19 Rights Regarding Thesis, its Publication and Reference

9.19.1 The thesis submitted by a student shall become the property of the Institute and no part thereof shall be published without the prior permission of the Dean or Head of the Division who shall be regarded as exercising this power on behalf of the Dean, and there shall be no objection to the abstracts of the thesis being published in the Divisional publications. Whenever an extract from the thesis is published, a footnote shall always be given saying that the thesis had been submitted for the degree of the Post Graduate School at the Indian Agricultural Research Institute.

9.19.2 All patents, prototypes, designs and inventions derived from the thesis research work shall belong to the Institute which may, at its discretion, allow or direct any benefit thereon to be retained by or given to the author of the thesis.

9.19.3 The thesis may be published in the form of an abstract/article in the publication "Abstracts of Post Graduate Students' Thesis". The student shall be the author of the article. The names of all the members of the student's Advisory Committee shall be printed as an "Inset", the name of the Chairperson appearing in bolder type.

9.19.4 Copies of thesis deposited in the Institute Library or in the Divisional Libraries shall not be available for reference for a period of two years from the date of submission and shall, under no circumstances be issued on loan.

9.19.5 In case where students do not care to publish their thesis work even after many years of completion of their degree, there is no objection to the Chairperson of the student taking the initiative to write a paper in consultation with the student provided the student is given first authorship and the Chairperson takes credit for second authorship.

9.20 Abstracts of Post Graduate Student's Thesis

9.20.1 The "Abstract of Post Graduate Students' Thesis" is intended for publication of abstracts of all the approved M.Sc. and Ph.D. thesis of the Post Graduate School in the Post Graduate School Journal. The abstract of the thesis should also be published in Hindi. Each issue of the 'Abstracts' may also carry some invited articles. The 'Abstracts' is normally published once in a year.

9.20.2 The abstract to be published (about 500 words) shall be of high quality and properly edited.

This abstract shall be bound along with the final thesis.

9.20.3 All abstracts of thesis submitted by the students should be carefully scrutinised by the Professor concerned and sent to Post Graduate School after editing. The Post Graduate School shall arrange for the publication of the Post Graduate School Journal after getting the draft approved in a meeting of the Editorial Board.

9.20.4 The abstract shall be in the exclusive authorship of the student and he/she shall give his/her roll number, degree for which the thesis is submitted, the discipline, date and year of submission and the names of the Chairperson and the members of the Advisory Committee.

9.20.5 A suitable Editorial Board shall be constituted by the Chairperson of the Academic Council for bringing out the above publication.

9.20.6 The rates for the annual subscription of Post Graduate School Journal shall be decided by the Dean. These rates are subjected to change as and when necessary.