



INDIAN ASSOCIATION OF PHYSICS TEACHERS

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Prof. B P Tyagi

Chief Coordinator (Examination)

Dated: 7.03.2021

Respected President IAPT and my dear colleague.

The worst time of Pandemic has almost passed. Even with all the best cares taken, we have lost some of our esteemed colleague in this Pandemic Prof R. M. Dharkar and Dr Tushar Pandya are to name. We express our condolence; of course, the loss is irrecoverable and irreparable. We shall be remembering them for all times to come.

Let me now turn to the examination. Both NSE and NGPE are completed by now the evaluation process is going on. Regarding NSE-2020 connected to Olympiad program, we made all preparation for NSE 2020-21, when I received a call from the Chairman NSC and the Director HBCSE somewhere in the first week of July 2020. He asked me not to proceed further for the NSE schedule unless some decision is taken. An online meeting was organized on 14.7.2020 and a proposal was put to plan the examination with a combined exam for stage I and stage II by the National Coordinator Prof Anwesh Mazumdar. A committee was constituted to look after all the examination work including the Maths examination (PRMO). Myself being a member of this committee from IAPT. After the first meeting held on 14.7.2020, I requested the Chairman to allow at least one more member from IAPT and the same was placed before the President of IAPT.

Looking at the situation, an online meeting was organized with the President Prof Vijay A. Singh, Gen. Secretary Prof K.N. Joshipura, Coordinator NSE Dr A. S. Rana, Coordinator NSEJS Dr Vijay V. Soman, Prof R. M. Dharkar, Prof M. L. Ogalapurkar and myself.

All of us discussed the matter and took account of the entire situation. It was then decided that along with me, Prof R. M. Dharkar and Prof M. L. Ogalapurkar shall be attending meeting about examination to be conducted by HBCSE. Even Prof Vijay A. Singh later joined online meeting with HBCSE.

In the next meeting held on 21.7.2020 a detail discussion about examination was taken up and certain working norms were presented by the National Coordinator Prof Anwesh Mazumdar. Representative of three agencies namely Edutest, TCS and Merritrac were requested to make their presentations. It was decided that tender will be called for the work. A memorandum of understanding was then prepared by the national coordinator Prof Anwesh Mazumdar. It was placed for discussion in the next meeting on Sept 11, 2020.

After a meaningful point wise discussion, the MOU was finalized. An understanding was built up that the president IAPT, president MTA and the Centre Director HBCSE will sign the MOU on a stamp paper and the same is to be ratified (accepted) by respective E.C. of each of IAPT & MTA, so today we have to accept a resolution in favour of it.

Having finalized the MOU and its signing the tender process started at HBCSE. Three tenders were received one of which was disqualified because of reasons specified and finally two were opened. Finally the work was assigned to Meta I Technologies Pvt. Ltd Bangalore. The dates of examination were fixed as Jan 17, 2020 for IOQM and IOQJS, Feb 6 for IOQA & IOQC and Feb 7, for IOQP and IOQB.

The registration/enrolment of students started on IAPT website from Nov. 1, to Nov 28, 2020 which was extended further till Dec 5, 2020 for IOQJS and IOQM and upto 27.12.20 for Sciences say IOQA, IOQB, IOQC & IOQP.

IAPT through the office of Chief Coordinator (Examination) completed the work of enrolment of students. In all 91427 examinee were enrolled for all the examination out of which 27063 for IOQM. For science it was 64364. As per MOU the fee for each examinee was decided as Rs. 200.00 which has to be collected by IAPT through its websites and a bank gate way. Out of this Rs. 200.00, Rs. 170.00 per student shall go to HBSCE and Rs. 30.00 per student shall be retained with IAPT for all work at its examination office. It was also agreed that out of Rs. 30.00 per student enrolled for Mathematics Rs. 15.00 shall be transferred to MTA (I). The whole amount due to HBCSE and MTA (I) has already been transferred from IAPT.

This year the students were given the facility for online registration/enrolment. Each student who registered himself / herself on the IAPT website was given a registration number and was asked to enroll himself/herself after the preliminary registration and to pay the fee. Giving a registration number was useful in fetching the first stage data. One student could register by one

phone & email only once. After Nov 25, the data was made available to NC almost regularly on alternate days. Roll numbers were designed in specific fashion by HBCSE and MTA (I) taking care of the Zones in the country and the subjects opted by student.

For centre allotment three preferences were asked. The allotment of centre has been done by META-I-Technologies. They only decided where they want to keep the centre. More or less the examination was conducted well on 178 centres for about 38000 students on 17.1.21, Maths in the morning and Junior Science in the evening. There were some complaints too.

Looking at the complaints, some centres were changed. In the second phase of examination on Feb 6 & 7, 2021, there were 163 centres in the entire country which seems to be too less. Especially centres were changed in Delhi, Kota and Bangalore at the last moment. As such the examination for seniors had been conducted smoothly on Feb 6 & 7, 2021 except of a few complaints. The result of IOQJS 2020-21 (Part I) Junior Science has been announced and posted on web. A list of 310 shortlisted students has been forwarded to NC at HBCSE. The list of National and State Toppers of Junior Science is almost ready to be posted on web. Certificates will be sent to all shortlisted students. The evaluation of senior science is going on. Hope the result will be declared within a week.

An important privilege of an examinee in IAPT examinations is that the examinee can write his/her grievances and queries about the question papers and the answers on the portal provided for. The answers are posted on the website. As a routine this year too we received queries and grievances through the web page. The major complaints were specific on the chemistry part of IOQJS. Even Prof Anwesh Majumdar pointed out a major problem in setting of the paper of Junior Science. These queries were referred to respective group of subject teachers to look at and resolve if any change is to be made in the answer key. The final answer keys were posted after getting all queries resolved.

In this EC we have to accept a guideline for the IAPT examination in particular for the framing of question paper. The executive council of IAPT in its meeting on 7.3.21 resolves and accepts the following unanimously.

2.8 The Chief Coordinator (Examination) will constitute a Paper Setting Board (PSB), a Moderation Board (MB) and Paper Grading Board (PGB) for NSE in each of the subjects such as Physics, Astronomy and Junior Science based on inputs from IAPT members who have experience and established

integrity and will provide necessary guidelines. There may be overlap of members between the three boards. The CCE shall also advise the Gen Secretary ACT and ATBS to set up similar boards in respective subjects and to apprise him of the same.

2.9 The Boards may induct additional members, subject to the approval by the Chief Coordinator (Examination) to widen their scope, standard and expertise in the subject.

2.10 The primary function of the PS Board in each subject is to design a test paper of high quality for NSE in that subject and provide solutions.

2.11 The primary function of the Moderation Board is to moderate the question paper and its solution within the limits of specified syllabus if at all needed and that of the PG Board is to set appropriate standard for evaluation of the Answer Scripts/marked OMR. The PG Board will look into the queries about the respective NSE and take suitable decision after resolving all queries of the students/examinees. The same will be communicated to CCE who will finally freeze the solution and this will be binding for all.

2.12 After NSE in different subjects has been conducted, the Examination office will put the question paper on the IAPT website along with the tentative solutions. Comments in an established format will be invited from the examinees and will be put before the PG Board. All the queries and objections will be resolved and reviewed by the Paper Grading Board and a suitably revised solution will be provided to CCE. The frozen solution will be put up on the IAPT website and will be a binding to all. The Chief Coordinator will submit a copy of question paper and the frozen solutions to the National Coordinator (Science Olympiads) soon after the NSEs are held. Reciprocally the National Coordinator is expected to provide the question papers and solutions of the second stage examinations to the Chief Coordinator (Examination) who is looking after all the NSEs.

A letter has been received by Chief Coordinator from the president IAPhO Prof Doni Nurdiansyah of Indonesia Scientific Society (ISS) requesting a participation of students in International Applied Physics Olympiad to be organized online by them in April 2021. I will request the General Secretary to place it on agenda and to discuss the matter in this EC.

Prof B. P. Tyagi
Chief Coordinator (Examination)

National Graduate Physics Examination-2020 Part-C

Announcement of results

In this pandemic situation, the test was conducted well and smoothly. Dr S M Hossain managed Google classroom very well. Based on the overall performance of the students in NGPE 2020 (Part A, B and C) five participants are short listed to be the recipient of NGPE 2020 Gold Medal. Their names are announced in the valediction meeting on 25.08.2020. Each of them will be awarded a gold medal and cash prize of Rs 20,000.00 with a certificate of merit at the inaugural session of the 35th Annual IAPT Convention held from November 1 to 3, 2020 at Sri Vaishnav Vidyapath University in Indore. The names of the awardees are:

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| 1. Manav Beniwal, | St Stephan College Delhi |
| 2. Johann M Fernandes, | IISER Pune |
| 3. Ayshi Mukherjee, | St Xavier's College Kolkata |
| 4. Debsubhra Chakarborty, | R K Mission College, Belur Math, Howrah (WB) |
| 5. Sudip Chakarborty, | Burdwan Raj College, Burdwan (WB) |

The valediction meeting was started under the presidential chair of Dr B P Tyagi Chief Coordinator (Examination). Dr Amit Kumar De, Principal, Prabhat Kumar College, Contai was present as the Chief Guest in the valediction meeting. Dr B P Tyagi conveyed his heartfelt thanks to Dr De for his cooperation. Dr Amit Kumar De also assured the wide auditorium to be on the side of IAPT in case of such wonderful endeavours. Some of the students shared their joyful experience of this online practical examination.

Professor Tyagi congratulated the winners and appreciated the others for active participation. He requested Dr S C Samanta to express his reaction on the performance of the students in the online test. He stated that performance of the students was good in general and the question paper was scientific in the sense that the distribution of marks obtained by the students follow a Guassian curve. He considered this online Physics practical examination is an epoch making event in the history of Indian Association of Physics Teachers, so he dedicated, with permission from the chair, this online examination in the memory of Professor D P Khandelwal, the founder of IAPT. Incidentally, ensuing 1st October, 2020 is the 99th birth anniversary of Professor Khandelwal and IAPT has decided to celebrate his birth centenary from 01.10.2020 to 1st October, 2021. Anil Kumar Singh (NGPE Co-ordinator) concluded the meeting with a vote of thanks on behalf of the organizers.

A team of teachers have effectively contributed in sharing the technical and other related responsibilities of the online test under the leadership of Dr. Subhash Chandra Samanta, former general secretary of IAPT. The other members of the group are Dr. Debapriyo Syam, Dr. S Minhaz Hossain, Dr. Asit Kumar Chakraborty, Dr. Makhanlal Nanda Goswami, Dr. Pradipta Panchadhyayee (Co-ordinator, Examination Centre), Dr. Rajib Pradhan, and Mr Anirban Samanta (A PG student of electronics). The following professors have extended their full cooperation for the successful completion of the test: Professor Yogesh K Vijay, Dr. Akhilesh Tiwari, Dr. Tushar C. Pandiya, Dr. Devesh Kumar Tyagi, Dr. Gyan Prakash, Dr. Pramod Kumar, Dr. Anand Singh Rana, Dr. Prem Prakash, Dr. Anil Kumar Singh, Dr. Arundhati Mishra. Professor B.P. Tyagi expressed thanks to all the teachers who helped in the conduct of this examination directly or indirectly. At the end Dr A K Singh gave vote of thanks

NGPE - 2021

For NGPE -2021 held on 24.01.2021 online enrolment facility was provided to the students. The examination is conducted offline but the students were given an opportunity to choose their centre in the city where ever they are without bothering where their institute/college is. A large number of students availed this facility and appeared at colleges other than their own colleges/institutes.

About 1500 students enrolled online through IAPT web and deposited their fees directly in IAPT account. More than 100 centres were received offline as a usual process. The total enrolment was more than 4100. About 2700 students appeared in the examination on 24.1.2021. The examination in held at about 170 centers. I am thankful to all the teachers who activity participated in NGPE – 2021 in this time of Covid-19, when most of the institutions were officially closed.

The process of evaluation is going on. The result will be posted on web and certificates will be sent to the individuals. This time we intend to provide an online experimental, one week, workshop for all national and state toppers of NGPE – 2021. Because of the Covid-19 the students could not attend colleges hence no experimental work of their own at the institution. It is therefore thought to provide some experimental knowledge to at least these toppers of NGPE. I am sure this will fascinate many more students in future to opt for NGPE.

The question paper has been published in the bulletin. The question paper and its solution will soon be posted on web.

Dr Pramod Kumar of IIIT Allahabad, Dr. Vijay Kumar & Dr Anil Kumar from Graphic Era Hill University Dehradun, Dr Amit Kumar Sharma of DAV College Dehradun, Dr Vinod Singh of Dakpathar and Prof Devesh Tyagi from DAV College Muzaffarnagar have been involved in the setting of NGPE – 21 question paper. All of them deserve a sincere thank.