

## IAPT National Competition on Essay Writing in Physics (NCEWP - 2021)

*Writing makes one perfect, essay writing more so.....*

NCEWP is one of the three national competitions being held by IAPT every year. The competition is open to participants in two categories viz., students and teachers (including Science Communicators).

**Category A** - *students* of Higher Secondary /Jr. College, UG and PG levels;

**Category B**-*teachers*ofHigherSecondary/Jr.College,UGandPGinstitutions,also Science Communicators working in recognizedinstitutions.

**Essay topic for both the categories is:**

### “MODERN PHYSICS AND MEDICAL DIAGNOSTICS”

The idea is to explore the Physics of various Medical Diagnostic tools. As a keen scientist you need to share your observations, exploration and investigation. Your essay may be written considering the following points:

- (i) Brief introduction to the topic.
- (ii) Different types of Medical Diagnostic tools {you may choose any **one** from the following}
  - (a) X-rays&CT scan (b) Ultra Sound (c) MRI (d) Lasers in Medicine (e)Nuclear Medicine

You have to describe in details the principles of Physics and working of the Instruments involved in these tools.

- (iii) A short description of the diseases in which these tools are utilised.
- (iv) The basic safety measures recommended by various Governments Agencies to run Labs for these tests.

#### (v) **General Instructions:**

The essay will be limited to 08 pages including figures/tables etc. type-written in the Times New Roman 11-point fonts, with 1.15 spacing. A format is given below:

IAPT National Competition on Essay Writing in Physics: 2021 (NCEWP – 2021)

**Topic: -“MODERN PHYSICS AND MEDICAL DIAGNOSTICS”**

Tick Category:     A                                 B

**Author’s Details** (with Affiliation & Signature):-

Total No. of Words:-

Key Words (Maximum Five)

All entries will be subjected to the online plagiarism test. Only two entries per institution may be submitted in a category.

## **Important Changes in the IAPT Essay Competition NCEWP-2021**

Looking at the Covid-19 scenario, restrictions are expected to continue in the near future. It will be difficult to assemble students at one place and conduct the essay competition following rules of social distancing and other potential protocols.

Now all the RC's will conduct the regional level essay competition digitally. Students at all the levels i.e. Higher Secondary/UG/PG can submit their essays through e-mails to President/Secretary/EC member of the respective regional council.

Students will send their entries duly forwarded through respective school/college/institute to the appropriate Regional Council(RC) with all contact details clearly. The RC's will have the initial scrutiny at their level. They will select 2 best essays from each level. Thus each RC will submit 6 best entries to the national competition.

Similarly, Teachers & Science Communicators will send their entries through e-mails duly forwarded directly to the Coordinator/Member.

Exception: Retired teachers can self-attest their entry. All entries (in English only) will be scrutinized in all respects, and will be assessed by three evaluators.

**The last date for essay submission is 25<sup>th</sup> September, 2021.**

Final entries for the national competition must be submitted in PDF format by e-mail to any one of the following:

1. Prof. S. K. Joshi, Coordinator, NCEWP, Mail id:- [joshisantoshk@yahoo.com](mailto:joshisantoshk@yahoo.com)
2. Dr. Himanshu Pandey, Member, NCEWP, Mail id:- [himanshukrpandey@gmail.com](mailto:himanshukrpandey@gmail.com)
3. Dr. Shivanand Masti, Member, NCEWP, Mail id:- [shivanandmasti@yahoo.co.in](mailto:shivanandmasti@yahoo.co.in)

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**Prof. S. K. JOSHI (Coordinator, NCEWP-2021)**