

Topics of the oral round

- 1) UV technology and its use in printing industry.
 - 2) Applications of PP, PE and 3D paper.
 - 3) Digital printing versus offset printing.
 - 4) Challenges in colour reproduction print jobs.
 - 5) Challenges encountered towards counterfeiting attempts and forgery in label printing industry.
 - 6) Characteristics and applications of conductive inks.
 - 7) Differentiate Flexography and Gravure printing process from application point of view.
 - 8) Various digital printing technologies and their specific applications.
 - 9) Energy efficiency measures used in print production.
 - 10) Enhancing print productivity in printing industry through various technology adoption programs.
 - 11) Environmental sustainability and print media.
 - 12) Growth and development of printing industry in the last two decades.
 - 13) How to reduce carbon foot prints waste in pre-press department?
 - 14) How to reduce carbon foot prints in press section?
 - 15) How to reduce carbon foot prints in post-press section?
 - 16) Role and importance of Hybrid paper in printing industry.
 - 17) Impact of digital media on book printing.
 - 18) Impact of internet on printing industry.
 - 19) Importance of Augmented Reality in Printing.
 - 20) Safety measures at work place in Print industry.
 - 21) Importance of Standardisation in a printing press.
 - 22) Industry 4.0 and printing industry.
 - 23) Inkjet technologies and applications.
 - 24) Is flexography the future of printing?
- 25) ISO certification and its importance in printing industry.
 - 26) ISO: 12647 and its various sub-parts.
 - 27) Packaging for Food & Pharmaceutical Industry.
 - 28) Packaging for agriculture produce.
 - 29) Newspaper Industry in India in the present e-age.
 - 30) Offset Inks and its impact on environment.
 - 31) Various growth opportunities of packaging industry in the post-covid 19.
 - 32) Digital papers and their surface characteristics.
 - 33) Customized printing and the new major happenings in printing industry in the recent times.
 - 34) Present scenario of Screen Printing and how Industry is transforming.
 - 35) Print Quality tools used in sheet fed offset printing for quality control purpose.
 - 36) Printed Electronics and its future.
 - 37) Recent developments in offset printing plates.
 - 38) Advanced methods of gravure cylinder making.
 - 39) De-inking and technologies involved in it.
 - 40) Common substrates for offset and dry toner-based electrophotography presses.
 - 41) Print on demand and its future.
 - 42) Future of multi-colour screen printing in India.
 - 43) Use of print media in bio medical technology/ engineering.
 - 44) UV Printing and its future in changing print environment.
 - 45) Future of Hybrid printing systems.
 - 46) Growth and development of inkjet printing segment.
 - 47) Various aspects of colour management systems.
 - 48) Will eBooks replace Printed books for education?
 - 49) Future of Indian printing industry?
 - 50) Factors that will decide the growth of printing industry in India.



Patron
Mr. Parveen Aggarwal
President, OPA

Project Chairman
Prof. Kamal Mohan Chopra

Chief Coordinator
Prof. TKS Lakshmi Priya
Academic Consultant

Advisors
Mr. Anubhava Shiksharathi **Mr. Ashwani Gupta**
Print Consultant GS, JPA

REGIONAL COORDINATORS

East Zone:

Mr. Shankhya Debnath **Dr. Arpitam Chatterjee**
RIPT, Jadavpur, Kolkata Jadavpur University, Kolkata

North Zone:

Mr. Kanwardeep Sharma **Mr. Sandeep Boora**
KU, Kurukshetra CUH, Mahendergarh

South Zone:

Dr. M. Nandakumar **Dr. M. Kanchana**
AGPC, Sivakasi Anna University, Guindy, Chennai

West Zone:

Prof. Madhura Mahajan **Prof. Parmeshwar Shinde**
PVG's COET & GKPWIM, Maharashtra Institute of Ptg. Tech., Pune Pune

Organized by:

OFFSET PRINTERS ASSOCIATION

2051, B-XX, Gobind Nagar, Civil Lines, Ludhiana

Tel.: 98729-90278, 70093-02260

Website: <https://opaindia.in> Email: info@opaindia.in



ARE YOU READY TO BE KNOWN AS

No.1
Student
of India

to win

₹1,00,000/-

Organized by:



Offset Printers Association
Ludhiana

Hosts

East



RIPT
Kolkata

North



IMCMT KU
Kurukshetra



CUH
Mahendergarh

South



Anna University
Guindy, Chennai



AGPC
Sivakasi



PVG's COET & GKPWIM, Pune
Maharashtra Inst. of Ptg. Tech., Pune

'Print Olympiad' was started by Offset Printers Association (OPA) in 2016, to persuade the existing students of printing for out of the box ideas, to look beyond the books and to be abreast with latest developments and innovations in this field. Print Olympiad is the biggest talent hunt for printing students in India. The brainchild of Prof. Kamal Mohan Chopra, 'Print Olympiad' is the globally first competition of its kind.

The 6th edition of 'Print Olympiad' is scheduled to be held in 2023-24. The students of printing currently studying for a Diploma, B.Voc., B.Sc., D.Voc. or B.Tech./B.E. in printing/ packaging are eligible to participate as per the rules given in this brochure.

To make the competition more meaningful, widespread, and approachable to all, it is decided to conduct regional level competitions, before going in for the gala national finale. For the purpose, the printing institutes of India are divided in four regions i.e. **East Zone:** Arunachal Pradesh, Assam, Bihar, Jharkhand, Manipur, Meghalaya, Mizoram, Nagaland, Odisha, Sikkim, Tripura, West Bengal, and Andaman and Nicobar Islands. **North Zone:** the printing institutions falling in the states of Jammu & Kashmir, Ladakh, Haryana, Himachal Pradesh, Punjab, Rajasthan, Uttar Pradesh, Uttarakhand, Delhi and Chandigarh. **South Zone:** Andhra Pradesh, Karnataka, Kerala, Tamil Nadu, Telangana, Lakshadweep, and Puducherry. **West Zone:** Chhattisgarh, Goa, Gujarat, Madhya Pradesh, Maharashtra and Dadra-Nagar Haveli, Daman & Diu. The zonal competitions will be organized with the support and under the supervision of the leading printing institutions of the region.

Taking into consideration the future printing and going with the trends of online business, it is decided to organize the Print Olympiad on two platforms. The preliminary MCQ test, separately for each region, will be conducted at virtual platform to select 3 to 5 top students of the region under supervision of the 'Regional Coordinators.' There can be one or more rounds of MCQ tests, depending upon the number of eligible registered students. The students will have to answer (50) questions within 30 minutes, in the presence of eminent judges, at the virtual platform, on a given date and time. All

eligible students of the region will appear for the test simultaneously (including Diploma, B.Voc., B.Sc., D.Voc., B.E./B.Tech). However, there will be two distinct sets of question papers, one for the engineering students and another for the diploma/vocational students, as per their respective course curriculum. There will not be any negative marking but a minimum of 70% marks are required to qualify from the MCQ test.

These 3 to 5 top students from each zone will be rewarded with a merit certificate, moreover they will be eligible to participate in the Regional Finale. The regional finale to get the top student of a particular region will be hosted in physical mode by one of the institutions of the region. This final round will be organized under the supervision of a national team. It will be an oral round, where selected students will have to speak on a given topic for a specific time. OPA will bear the boarding and lodging expenses for these students for taking part in the Regional Finale.

The 'Print Olympiad' national finale will be organized with physical presence of the competitors at some leading printing institution of India. This finale will be conducted by a separate national team, in the presence of national/international jury. The top student of the country will be awarded a certificate and the prize money of Rs. 1,00,000/-

Registration fee Rs. 100/- + GST

Please follow the link provided here in to register for the competition as per instruction available in the Registration Form. Upload the Self-attested copy of identity card or letter from the head of the institution certifying that he/she is a currently studying student of the institute at the link provided in the google form. Applications received after the close of date and Incomplete/incorrect applications will be rejected and no correspondence will be entertained in this regard.

Please visit the following link to register

<https://forms.gle/PsL4PrkbggDvPkUh8>

Closing date for Registration: 30 November, 2023

After successful registration the eligible students will receive a mail with their Unique ID and a phone number to be stored in the contact list of his/her phone to receive the set of question on the day of competition. Other rules/instructions for attending the online test, will also be given in the same mail, mentioning all the details pertaining to the regional contests. The scheduled dates and time of competition on virtual platform, as well as the final physical round, will be given to the eligible students from time to time at their mail and at their phone as broadcasting message. Only eligible registered students are allowed to join the virtual meeting for online test. Since the preliminary competition(s) will be held online, it is the responsibility of the student to ensure constant supply of electricity and good strength of network bandwidth. Student will keep his/her cam and mic always open during these virtual meetings, until not asked to close.

Note: Syllabus for the MCQ tests and the list of topics for the final round is available in this brochure.

First Round Syllabus (Diploma/D.Voc./B.Sc./B.Voc.)

- History of printing
- Printing processes; characteristics, applications, merits & limitations
- Letterpress printing
- Offset-Lithography printing
- Flexography printing
- Gravure printing
- Screen printing
- Digital printing
- Graphic design
- Reproduction photography
- Digital photography
- Printing surface preparation
- Digital pre-press
- Colour management
- Printer's science
- Printing substrates
- Printing ink

- Binding & finishing
- Printer's costing and estimating
- Elements of packaging
- Security printing
- Basics of management
- Printing quality control
- Green printing
- Recent trends in printing

First Round Syllabus (B.Tech./B.E. Printing)

- Introduction to printing
- Sequential developments in printing
- Printing in India & abroad
- Conventional printing technologies
- Digital printing technologies
- Pre-press, press and Post-press technologies (conventional and digital)
- Colour science & colour management system
- Hybrid printing
- Advance printing technologies
- Quality Control systems in printing
- Printing substrates
- Printing ink technology
- Printing material science
- Basics of packaging technology
- Smart packaging
- Costing, estimation & ERP
- Print entrepreneurship
- Printer's management
- Green printing
- E-publishing
- Printing machine maintenance
- Recent trends in printing
- Printing standards
- New media technology
- Security printing
- 3 D printing