**107th Indian Science Congress (ISC)**

**Syllabus subtopic:** Science and Technology- developments and their applications and effects in everyday life Achievements of Indians in science & technology; indigenization of technology and developing new technology.

**Prelims and Mains focus:** About the ISC: objectives and significance; various other events held as part of ISC

**Context:** India’s largest annual gathering of scientific luminaries from countries across the world, the '107th Indian Science Congress', will be held from January 3 to 7, 2020 at University of Agricultural Sciences (UASB), GKVK Campus, Bangalore, Karnataka focusing on ‘Science & Technology: Rural Development’.

**Significance of ISC**

- The Congress is a major focal point for scientists, researchers and academicians interested in various aspects of science discoveries and technologies.
- The five-day long event aims to bring together science fraternity across the world to discuss scientific innovation and research.

**About the participants**

- The Nobel Laureates who will be participating include German Physicist, Prof. Stefan Hell who is one of the directors of the Max Planck Institute for Biophysical Chemistry in Göttingen, Germany. He received the Nobel Prize in Chemistry in 2014 ‘for the development of super-resolved fluorescence microscopy’ and Prof. Ada E. Yonath from Israel. She is a protein crystallographer who was awarded the 2009 Nobel Prize for Chemistry.
About the plenary sessions of the Congress

- There are **28 Plenary Sessions** on areas ranging from Climate Smart Agriculture for Food Security, Crop Improvement Towards Food & Nutrition Security, Materials Science And Technology For Rural Development, Challenges and Opportunities In Cancer Drug Discovery, Artificial Intelligence And Medical Technology, Advances In Basic Medical And Clinical Interactions, Non-Communicable Diseases In Rural Population as well as Cancer Research - Therapeutic Applications.

- The areas also include Nano Materials for Energy, Environment and Health Care, Novel Solutions for Oil and Gas Industry Problems and so on in which senior scientists and officials will discuss on the status, challenges, opportunities and scope in these research areas.

Farmers Science Congress

- With focus on **Rural Development through Science and Technology**, for the **first time in the history of Indian Science Congress**, a Farmers Science Congress is being held.

- It will cover themes ranging from farmers innovation on integrated agriculture and entrepreneurship for doubling farmers income, climate change, bio-diversity, conservation, ecosystem services & farmers empowerment to agrarian distress, rural bio-entrepreneurship, policy issues.

- The event will have the presence of experts and scientists from Indian Council of Agricultural Research (ICAR) and University of Agricultural Sciences (UAS) along with farmers whose innovative approaches have led to significant contributions.

Rashtriya Kishore Vaigyanik Sammelan (Children’s Science Congress)
A two day event ‘Rashtriya Kishore Vaigyanik Sammelana’ will be held at UASB, GKVK as part of the 107th Indian Science Congress on 4th and 5th January 2020.

The aim is to provide a unique opportunity for children to view selected projects and interact with the student delegates and children will also have the opportunity to listen, interact with eminent scientists and Nobel Laureates. Events like one minute video competition, Infosys Foundation - ISCA Travel Awards for School Children, visit to exhibitions, live science demonstrations and science magic show will be organized as a part of the Science Congress.

Women Science Congress

- It aims to provide single platform for women working in different arena of science and technology to showcase their achievements and experiences.

- It will also prepare a vision document or a road map for women in science and technology and recommend policies to enhance the role and utilize the full potential of women in science and technology.

- In this session, women are invited to share ideas and experiences to motivate the younger women to actively participate in science to identify and find simpler solutions through Science and Technology.

Vigyan Sancharak Sammelan - 2020 (Science Communicators Meet - 2020)

- “Vigyan Sancharak Sammelan” is an initiative for Science communicators' for professional growth.

- This programme will focus on the theme "Science & Technology: Rural Development ".

- Science Communicators’ role is to facilitate public engagement with scientific issues. Science communication plays an integral part in one’s scientific career. Being able to effectively disseminate research findings
within the community and to consider collective opinions in prioritizing research needs is an important attribute of scientific maturity. Thus, dissemination of scientific information and inculcation of scientific attitude among masses at large is the need of the hour.

- With this broad goal, Science Communicators’ Meet will be held to bring together experts in the field of science communication with particular reference to rural development. It will provide an opportunity to academicians, science journalists, activists, filmmakers, scientists and other communicators from all over the world to meet, deliberate and exchange their views on how to develop science communication.