GENERAL AGRICULTURE



INSTANT IBPS AFO BOOK

This book contains over 30 modules with important topics on general agriculture, featuring concise notes and oneliners.



Volume :- 1



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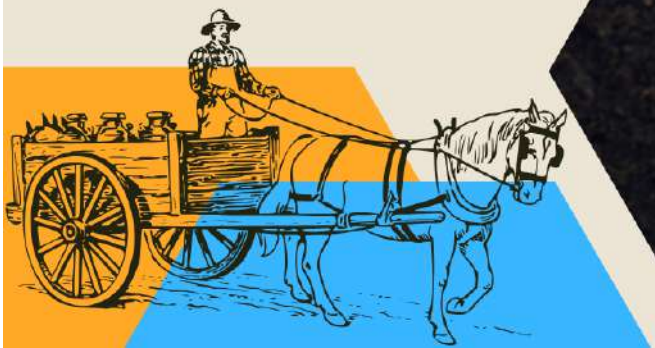


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HISTORY OF AGRICULTURE

- It is supposed that man was evolved on earth about **15 lakh years ago**.
- This man was the evolved form of monkey who started to move by standing erect on his feet. Such man has been called ***Homo erectus* or Java man (Homo » continuous, erectus >erect).**
- Later on, Java man was transformed into **Cro-Magnon and Cro-Magnon into modern man.**

- The modern man is zoologically known as ***Homo sapiens* (sapiens means learning habit)** due to his continuous learning habit.
- And according to trinomial nomenclature modem man got the name ***Homo sapiens sapiens***.
- In the beginning such man had been spending his life wildly but during the period of 8700 -7700 B.C., they started to **pet sheep** and goat, **although the first pet animal was Dog** which was used in hunting.

- The cultivation of crop started during 7500 B.C. and thus **agricultural science came into existence.**
- To produce the crop human beings tilled the soil.
- **Tilling of soil or in another word cultivation of soil is called Agriculture.**

- **Agriculture consists of two Latin words i.e.,**
- Agric/Ager(soil) + Cultura(cultivation) = Agriculture

- Thus, ***agriculture is an art and science both*** in which we study all the human activities related to use of soil.
- Discovery and use of Iron revolutionised the Agriculture to fulfil the needs of rising population and earnest desires.
- Later on, it was realized that due to lack of field management, the productivity of soil was started to be diminished.
- Therefore, Agriculturists had to study the management of

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HISTORY OF AGRICULTURE

field as well as principles and practices of crop production.

- Thus, the term **'Agronomy' came into existence Agronomy consist of two Greek words viz.**
- **Agronomy** = Agros (Field) + nomos (to manage) = Greek words

- Agronomy is that branch of agricultural sciences which deals with the management of field to provide favourable environment to the crop for higher productivity in terms of quantity and quality both.

- **Peter de Crescenzi (1230 -1307 A.D**.) collected many literatures related to Agronomy in his book **'Opus Ruralium Kamo Daram' for the first time.**
- That is why he is called the **Father of Agronomy.**

- **Jethrotull** (1674-1741 A.D.) wrote a book '**Horse Hoeing Husbandry'** on which basis '**seed drill**' and '**Horse Drawn cultivator'** were developed.
- The words '**weed' and 'zero tillage 'were** also used firstly by him.

- In India, scientific cultivation has been started with the commercialisation of sugarcane, cotton and tobacco**.**
- **On 27th April 1871,** a joint department of agriculture, revenue and commerce was established **by Lord Mayo** on the request of **A.O. Hume**.
- Due to direction issued by **Famine commission 1880,** a separate **central department of agriculture was established in 1881.**

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HISTORY OF AGRICULTURE

- **IARI: Imperial Agricultural Research Institute** was established in **1905** at **Pusa** (at that time Bengal but presently **in Bihar**) under the viceroyalty of Lord Curzon. In **1934,** its buildings were damaged due to earthquake. Therefore in **1936.**
- **IARI was transferred to Pusa Road**, **New Delhi**.

- After the Independence the word 'Imperial' was substituted by 'Indian' and now it is called **Indian Agricultural Research Institute.**
- In **1958, IARI** was given the status of deemed University by university Grant Commission.

- **ICAR:** The **Royal Commission on Agriculture** was constituted in **1926** under the viceroyalty of Lord Linlithgow; on the recommendations of the **Royal Commission Report** of **1928.**

- The Imperial Council of Agricultural Research 'was established on **16th July 1929.** It was registered as a society under the Societies Registration act - 1860. Its **first president was Md. Habibullah** and secretary**. A. Hyderi**.
- In March, 1946, it was decided to change the **'Imperial' 'into 'Indian** under the presidentship of Jogendra Singh and since then it is called **Indian Council of Agricultural Research.**

- In 1966, ICAR was reconstituted into full autonomous body and **its first *Director General*** (Chief executive) was ***Dr. B.P. Pal.***

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HISTORY OF AGRICULTURE

ICAR – MILESTONE

- Initiation of the first All-India Co-ordinated Research Project on **Maize in 1957**
- Status of Deemed University accorded to **IARI in 1958**
- Establishment of the **first State Agricultural University** on land grant pattern **at Pantnagar in 1960**
- Creation of Department of Agricultural Research and Education **(DARE) in the Ministry of Agriculture in 1973**
- Opening of **first Krishi Vigyan Kendra** (KVK) at Puducherry (Pondicherry) in **1974**
- Establishment of Agricultural Research Service (ARS) and Agricultural Scientists' Recruitment Board (**ASRB**) **in 1975**
- Launching of **Lab to Land Programme** and the National Agricultural Research Project (NARP) in **1979.**
- Initiation of **Institution Village Linkage Programme (IVLP) in 1995**
- Establishment of National Gene Bank at New Delhi in 1996
- The ICAR was bestowed with the King Baudouin Award in 1989 for its valuable contribution in the Green Revolution. Again, awarded King Baudouin Award in 2004 for research and development efforts made under partnership in Rice Wheat Consortium.
- Launching of **National Agricultural Technology Project (NATP) in 1998** and **National Agricultural Innovation Project (NAIP) in July 2006.**
- **IRRI:** International Rice Research Institute at Manila (Philippines) in 1960.
- **CIMMYT**: CIMMYT is in Mexican word which denotes **International centre for Maize & Wheat improvement at Mexico in 1966.**

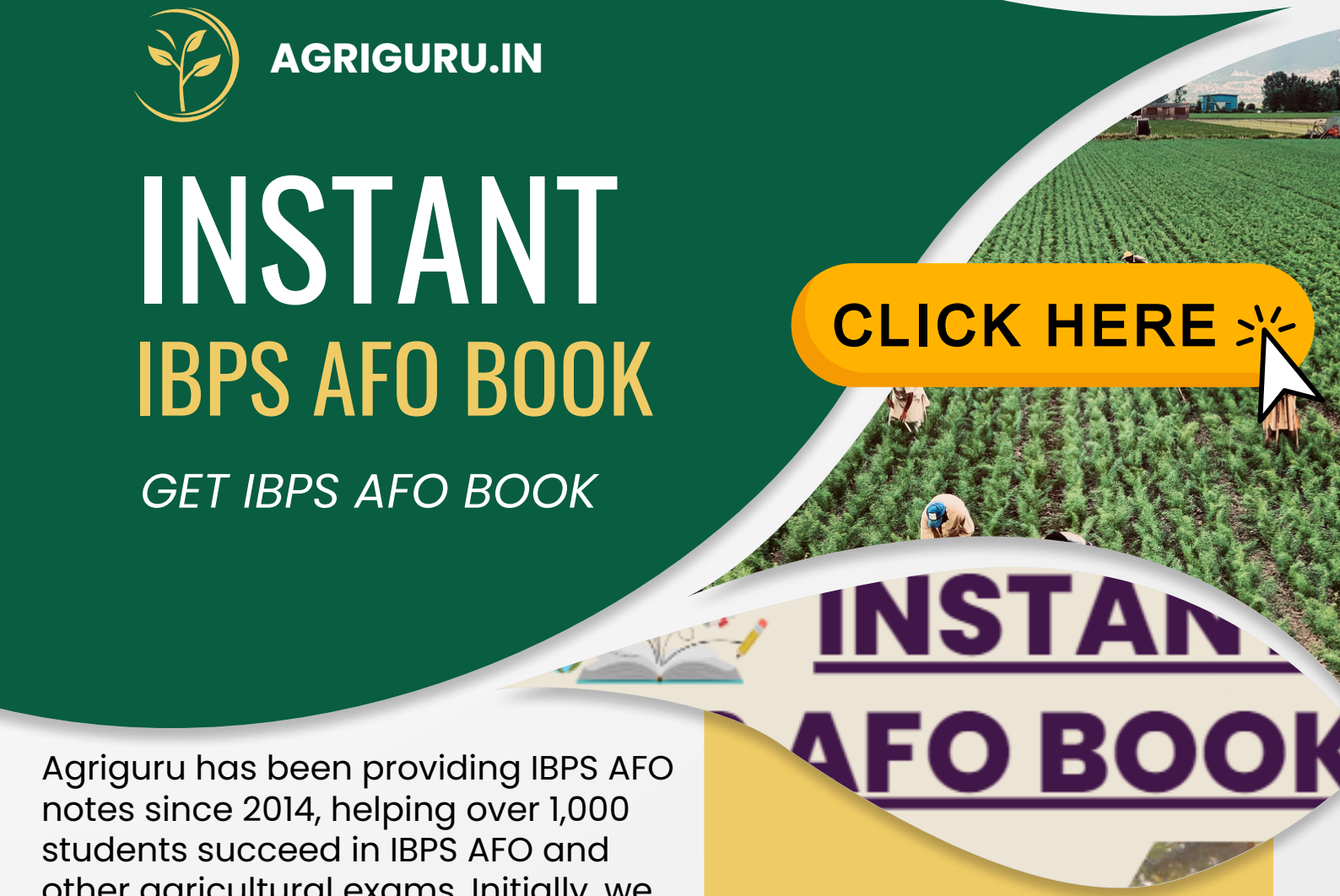
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FATHER OF DIFFERENT DISCIPLINES

- Agronomy: Peter de Crescenzi
- Agro-climatology: Koppen
- Agro-meteorology: D. N. Walia
- Agricultural chemistry : Justus von Liebig
- Antibiotics : Alexander Fleming
- ATP cycle: Lipmann
- Biology : Aristotle
- Botany : Theophrastus
- Bacteriology: Leuwenhoek
- Biochemistry : Justus von Liebig
- Crop rotation :Norfork (1730)
- Cytology : Robert Hooke
- Cytoplasmic inheritance: Carl Correns
- Cooperative movement in India : F. Nicholson
- DNA finger printing technique: Alec jeffrey
- Economic ecology: M.S. Swaminathan
- Ecology : Reiter
- Extension education : A. Seaman and Knapp (in USA) and Leagans (in India)
- Experimental genetics: Thomas Hunt Morgan
- Forest pathology: Robert Haring
- Fermentation : Louis Pasteur
- Field plot experiment: J. B. Boussingault
- Fruit and vegetable preservation: M. Nicholas Apart
- Genetics: Gregor Johann Mendel
- Genetic Engineering: Paul Berg
- Green revolution. N. E. Borlaug
- Green revolution in India: M.S. Swaminathan
- Golden revolution in India: Dr. K.C. Chadha
- Golden rice :Dr. Ingo Potrykus
- Hybrid rice : Yuan Long Ping
- Hybrid cotton : C.T. Patel
- Indian plant pathology : E.J. Butler
- Indian Rust :Dr. K.C. Mehta

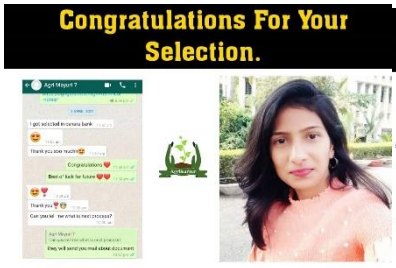
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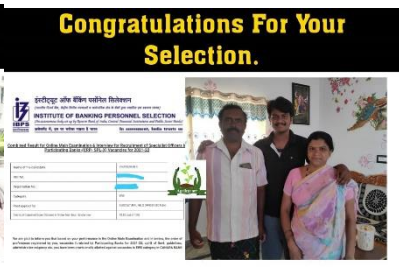
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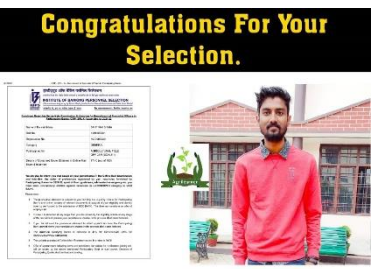
- Indian Mycology : E.J. Butler
- Indian Ecology : R. Mishra
- Indian Remote Sensing :Dr. P.R. Pishroty
- Immunology : Edward Jenner
- Microbiology : A.V. Leuwenhoek
- Mycology :P. A. Micheli
- Medicinal Bacteriology: Robert Koch
- Modern Genetics: T.H. Morgan
- Mutation Theory : Hugo de vries
- Modern Botany : Linnaeus/Bauchin
- Modern Cytology : Swanson
- Nematology : N.A. Cobb
- Nitrogen Fixation: Winogradsky
- Ornamental Gardening : M. S. Randhawa
- Plant Pathology : Anton De Bary
- Plant Physiology : Stephen Hales
- Pedology : V.V. Dokuchalev
- Parasitology : F. Platter
- Plant Tissue Culture : G. Haberlandt
- Polygenic Inheritance: Kolreuter
- Pure Culture Technique : Oscar Brefeld
- Sociology : Auguste comte
- Statistics: R.A. Fisher
- Soil Conservation: H.H. Bennett
- Soil Science :Dokuchalev
- Soil Microbiology : S.N. Winogradsky
- Soil Testing Technique : M.L. Troug
- Super Rice :Dr. G.H. Khush
- Taxonomy : Carolus Linnaeus
- Tillage and Weeds : Jethro Tull
- White Revolution :Dr. Varghese Kurien
- Zoology: Aristotle
- Hybrid Rice in India : E.A. Siddiqi
- Indian Plant Breeding :Dr. B.P. Pal

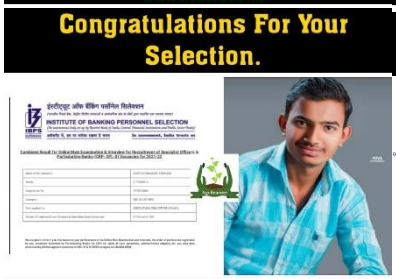
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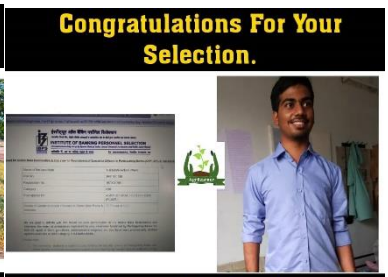






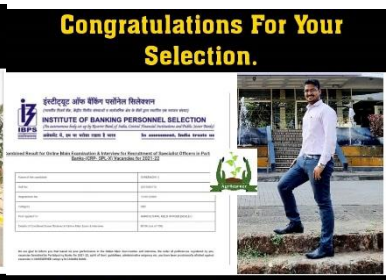


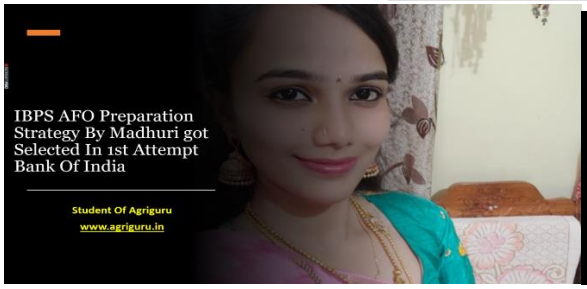


















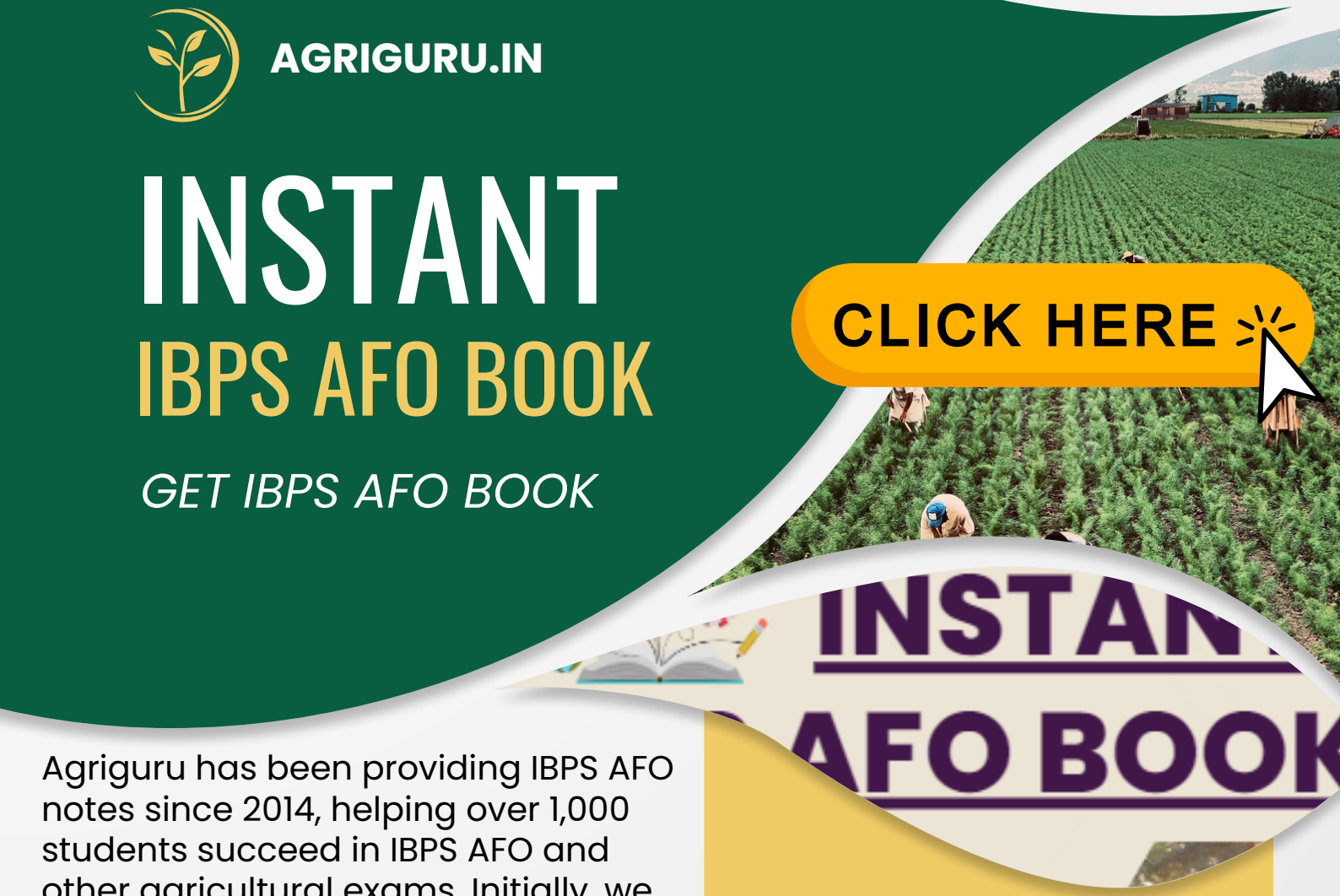
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