

AgriToppers Classes

-be the Next Topper

www.agritoppers.com

AIEEA-PGS JRF (Junior Research Fellowship) Coaching Program: Starting at 8th March, 2020

Total Package includes: (What you will get)

Expert support:

Telephonic discussion/ Whatsapp interaction with IARI toppers. The whole program will be guided by free service from IARI scholars. Free guidance is supplementary free service without adding any further cost.

1. JRF study planner for JRF 2020
2. **Topic wise video lectures** (Complete JRF syllabus of selected subject group)
3. **Class notes of IARI Toppers**
4. **Test series with detailed analysis (Sectional + Full set)**

General agriculture package will include:

5. **General Agriculture Video lectures**
6. **General Agriculture Notes**
7. **General Agriculture Test series**

Program Objective: The basic purpose of the program is to provide all-round guidance, notes & test in as an 'interactive' platform through both www.agritoppers.com website and telephonic personal contact to the JRF aspirants across India for 2020. We will provide step by step guidance to aspirants for understanding the basic concepts of both Subjects and General Agriculture for scoring good rank and securing Junior Research Fellowship.





AgriTopper's Target JRF 2020 Program

Approach & Strategy: We will follow each student specific simple, practical and point based approach so that each and every student's doubt is cleared and he/she gets the clear understanding. Our student's specific strategy and interactive guidance by previous years' JRF toppers (Telephonic Discussion and Whatsapp interaction: Experts with Aspirants) will continuously help in development of better understanding of subject and direct their preparation to the right direction.

COURSE FEE: Rs. 7999/ (inclusive of all taxes) (Offer Price: Rs. 3999/ + General Agriculture Package worth Rs. 1499/ is exclusively FREE [inclusive of all taxes])

Login ID: Login ID for aspirants for AgriToppers portal (www.agritoppers.com) will be provided to access video lectures, toppers notes and other digital materials anywhere, any time.

Mode of Dispatch: Postal dispatch (AgriTopper's Series: General Agriculture) + Non downloadable video lectures [Website based: www.agritoppers.com] + Test series [Website based: www.agritoppers.com] + Telephonic / Whatsapp interaction.

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- *Fee once paid in non-refundable and non-transferable in all circumstances.*
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PLANT BIOTECHNOLOGY

Schedule, Content & Syllabus

Lecture number	Lecture Topic	Major Topic	Suggested reading list
0	Introduction, suggested reading list, approaches	Introduction	-
1	Recombinant DNA technology (Part 1- Enzymes)	Plant Biotechnology	1. Gene cloning & DNA analysis- T.A. Brown 2. Plant Biotechnology- Slater
2	Recombinant DNA technology (Part 2- Linker & Adapter, Vector)		
3	Recombinant DNA technology (Part 3- Transgenics)		
4	Recombinant DNA technology (Part 4- Application of Transgenics, Gene revolution & GURT technology)		
5	Tissue culture and Molecular markers (Part 1- Concepts, Suspension culture, Single cell culture)		1. An expanding Horizon- B.D. Singh
6	Tissue culture and Molecular markers (Part 2- Micropropagation, Somaclonal variation, Protoplast culture)		



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7	Tissue culture and Molecular markers (Part 3- Somatic embryogenesis, Anther culture, Artificial seed production, Germplasm conservation & secondary metabolite)	Plant Biotechnology	2. Genetics: B.D. Singh 3. Bios Instant Biochemistry: Hames & Hooper
8	Tissue culture and Molecular markers (Part 4- Molecular markers)		
9	DNA replication (Prokaryotes & Eukaryotes)		
10	Transcription		
11	Post transcriptional modification (Basic concepts, Capping, Splicing, Tailing & RNA editing)		
12	Translation (Basic concepts and process)		
13	Operon (lac & trp operon)		
14	Basic techniques in biotechnology	Biochemistry	1. Techniques of Biophysics & Molecular Biology: Pranav Kumar
15	Photosynthesis (Part 1- Chlorophyll, Pigments, Light reaction, C3, C4, CAM & P2 cycle)	Plant Physiology	1. Plant Physiology: V K Jain / Pandey & Sinha (Any one book)
16	Photosynthesis (Part 2- Dark reaction [C3, C4, CAM & C2 cycle], Light & Carbon dioxide compensation point)		



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17	Nitrate assimilation	Biochemistry	<ol style="list-style-type: none"> 1. Bios Instant Biochemistry: Hames & Hooper 2. Fundamentals of Biochemistry: J L Jain
18	Biological nitrogen fixation and Nitrogen cycle		
19	Enzymology (Part 1- Properties & Classification)		
20	Enzymology (Part 2- Kinetics, Inhibition & Regulation)		
21	Lipid metabolism (Part 1- Basic concepts, Types, Beta, Omega and Alpha oxidation)		
22	Lipid metabolism (Part 2- Fatty acid synthesis)		
23	Carbohydrate metabolism (Part 1- Monosaccharides, Disaccharides & Poly saccharides)		
24	Carbohydrate metabolism (Part 2- Glycolysis & Gluconeogenesis)		
25	Carbohydrate metabolism (Part 3- Pentose phosphate pathway, Glyoxylate cycle & TCA)		
26	Carbohydrate metabolism (Part 4- Electron transport system, Glycogen metabolism etc.		





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27	Physiology- hormones, vernalization and photoperiodism	Plant Physiology	1. Plant Physiology: V K Jain / Pandey & Sinha (Any one book)
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- Follow AgriTopper's Classes time manager schedule for timely completion of syllabus, revision and appearing test in **TARGET program 2020**.
- Raise your queries and doubts. In each doubt clearing session each individual query will be cleared by experts.
- Read AgriTopper's Classes toppers notes, marked books very thoroughly after going through video lectures for proper understanding and conceptual build up.

Contact us:

~Online Coaching~

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