

AgriToppers Classes

-be the Next Topper

www.agritoppers.com

AIEEA-PGS JRF (Junior Research Fellowship) Coaching Program: Starting at 20th April, 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 2021
2. **Topic wise video lectures (Complete JRF syllabus of selected subject group)**
3. **Class notes of IARI Toppers (Hand written notes of JRF 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 2021. 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 2021 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. 9999/ (inclusive of all taxes) (Offer Price: Rs. 3999/ + General Agriculture Package worth Rs. 1499/ is exclusively FREE for first 50 students [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: Non downloadable video lectures [Website based: www.agritoppers.com] + Test series [Website based: www.agritoppers.com] + Telephonic / Whatsapp interaction.

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- *AgriToppers Classes materials (Soft copy & Hard copy) is for the individual use only. In any case a student is found involved in circulation with any other students/ any violation of copyrights of AgriToppers Classes material, the coaching enrolment will be cancelled and will be subjected to legal proceedings.*
- *Fee once paid in non-refundable and non-transferable in all circumstances.*
- *AgriToppers Classes reserves all rights to make any changes in coaching program/ schedule and timing etc., if need is felt.*





PLANT BIOTECHNOLOGY

Schedule, Content & Syllabus

Lecture number	Lecture Topic	Major Topic	Suggested reading list
0	Introduction, suggested reading list, approaches		
1	Recombinant DNA technology (Part 1- Enzymes)		
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)		





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6	Tissue culture and Molecular markers (Part 2- Micropropagation, Somaclonal variation, Protoplast culture)		
7	Tissue culture and Molecular markers (Part 3- Somatic embryogenesis, Anther culture, Artificial seed production, Germplasm conservation & secondary metabolite)		
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		





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15	Photosynthesis (Part 1- Chlorophyll, Pigments, Light reaction, C3, C4, CAM & P2 cycle)		
16	Photosynthesis (Part 2- Dark reaction [C3, C4, CAM & C2 cycle], Light & Carbon dioxide compensation point)		
17	Nitrate assimilation		
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)		



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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.		
27	Physiology- hormones, vernalization and photoperiodism		

- ✚ Follow AgriTopper's Classes time manager schedule for timely completion of syllabus, revision and appearing test in **TARGET program 2021**.
- ✚ 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.





AgriTopper's Target JRF 2021 Program

Contact us:

~Online Coaching~

Student queries: # 09749871932

Email: agritopper001@gmail.com

agritoppers@gmail.com

Whatsapp contact: 09749871932

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