

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**
4. **Test series with detailed analysis (Sectional + Full set) + All India Rank** to know your relative position.
5. **Test in past years JRF question paper (to know your expected rank)**

General agriculture package will include:

6. **General Agriculture Video lectures**
7. General Agriculture Notes
8. 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





AgriTopper's Target JRF 2021 Program

guidance to aspirants for understanding the basic concepts of both Subjects and General Agriculture for scoring good rank and securing Junior Research Fellowship.

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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PLANT SCIENCE

Schedule, Content & Syllabus

Lecture number	Lecture Topic	Major Topic	Suggested reading list
0	Introduction, suggested reading list, approaches		
1	Cell Organelles	Genetics	B.D Singh/Pundhan Singh
2	Cell Division	Genetics	B.D Singh/Pundhan Singh
3	Prokaryotes, Eukaryotes & it's differences I & II	Genetics	B.D Singh/Pundhan Singh
4	DNA structure & forms	Molecular Genetics	B.D Singh/Pundhan Singh
5	DNA as genetic material	Molecular Genetics	B.D Singh/Pundhan Singh
6	DNA replication	Molecular Genetics	B.D Singh/Pundhan Singh
7	Alleles & Genes	Molecular Genetics	B.D Singh/Pundhan Singh
8	Operon (lac & trp operon)	Molecular Genetics	B.D Singh/Pundhan Singh
9	Transcription & Translation (Basic concepts and process)	Molecular Genetics	B.D Singh/Pundhan Singh
10	Cytoplasmic inheritance I & II	Genetics	B.D Singh/Pundhan Singh





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11	Polygenic inheritance	Genetics	B.D Singh/Pundhan Singh
12	Fungi introduction	Plant Pathology & Microbiology	H.C Dube
13	Sexual reproduction & Parasexuality in fungi	Plant Pathology & Microbiology	H.C Dube
14	Fungal Taxonomy :Stramenopiles (Oomycetes)	Plant Pathology	H.C Dube/G.N Agrios
15	Order: Peronosporales (Downy mildew fungi)	Plant Pathology	H.C Dube/G.N Agrios
16	Phylum: Chytridiomycota & Zygomycota	Plant Pathology	H.C Dube/G.N Agrios
17	Phylum: Ascomycota I & II	Plant Pathology	H.C Dube/G.N Agrios
18	Phylum: Basidiomycota & Deuteromycota	Plant Pathology	H.C Dube/G.N Agrios
19	Microscopy I, II & III	Microbiology	Britannica.com
20	Chromosome its structure & special types	Genetics	B.D Singh/Pundhan Singh
21	Structural & numerical chromosomal abberation I & II	Genetics	B.D Singh/Pundhan Singh
22	Genetic code	Genetics	B.D Singh/Pundhan Singh
23	Linkage and Crossing over	Genetics	B.D Singh/Pundhan Singh





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24	Sex determination and sex linkage	Genetics	B.D Singh/Pundhan Singh
25	Mutation	Genetics	B.D Singh/Pundhan Singh
26	Brief about Bacteria I & II	Plant Pathology & Microbiology	H.C Dube
27	Reproduction in bacteria	Plant Pathology & Microbiology	H.C Dube
28	Mode of entry of bacteria & Ralstonia races, biovars	Plant Pathology	G.N Agrios
29	Rickettsia, Phytoplasma & Spiroplasma,	Plant Pathology	G.N Agrios
30	Bacterial classification	Plant Pathology	G.N Agrios
31	Brief about virus	Plant Pathology & Microbiology	H.C Dube/G.N Agrios
32	Bacteriophages, Viroid, Prions & Satellite RNA	Plant Pathology	G.N Agrios
33	Rice diseases & its management	Plant Pathology	R.S Singh
34	Wheat diseases & its management	Plant Pathology	R.S Singh





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35	Sorghum diseases & its management	Plant Pathology	R.S Singh
36	Maize, Bajra diseases & its management	Plant Pathology	R.S Singh
37	Red gram diseases & its management	Plant Pathology	R.S Singh
38	Chick pea diseases & its management	Plant Pathology	R.S Singh
39	Green gram, Black gram & Cowpea diseases & its management	Plant Pathology	R.S Singh
40	Soyabean diseases & its management	Plant Pathology	R.S Singh
41	Sunflower diseases & its management	Plant Pathology	R.S Singh
42	Safflower, Mustard diseases & its management	Plant Pathology	R.S Singh
43	Groundnut diseases & its management	Plant Pathology	R.S Singh
44	Sugarcane diseases & its management	Plant Pathology	R.S Singh
45	Sesamum, Castor diseases & its management	Plant Pathology	R.S Singh





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46	Tobacco diseases & its management	Plant Pathology	R.S Singh
47	Cotton diseases & its management	Plant Pathology	R.S Singh
48	Crop genetic resources	Plant breeding & Plant Genetic resources	B.D Singh/Pundhan Singh
49	Centres of diversity and Gene Banks	Plant breeding & Plant Genetic resources	B.D Singh/Pundhan Singh
50	Modes of reproduction & Pollination	Plant breeding	B.D Singh/Pundhan Singh
51	Systems of mating	Plant breeding	B.D Singh/Pundhan Singh
52	Male sterility & Self incompatibility	Plant breeding	B.D Singh/Pundhan Singh
53	Genetic variance, Heritability & Genetic advance	Plant breeding	B.D Singh/Pundhan Singh
54	General Breeding methods I	Plant breeding	B.D Singh/Pundhan Singh
55	General Breeding methods II	Plant breeding	B.D Singh/Pundhan Singh
56	General Breeding methods III	Plant breeding	B.D Singh/Pundhan Singh





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57	Stress resistance breeding	Plant breeding	B.D Singh/Pundhan Singh
58	Special breeding methods I	Plant breeding	B.D Singh/Pundhan Singh
59	Special breeding methods II	Plant breeding	B.D Singh/Pundhan Singh
60	IPR & different rights	Plant breeding	B.D Singh/Pundhan Singh
61	Varietal, Hybrid Seed production and release	Plant breeding & Seed Technology	B.D Singh/Pundhan Singh
62	Scientists contribution in genetics & plant breeding	Genetics & Plant breeding	B.D Singh/Pundhan Singh
63	Nitrogen fixation in legumes, Nitrification & C: N ratio	Microbiology	P. Tauro, K.K Kapoor & K.S Yadav
64	Bio fertilizers, Fermentation, Beneficial microorganisms & Mycorrhiza	Microbiology	P. Tauro, K.K Kapoor & K.S Yadav
65	Antibiotics	Microbiology	P. Tauro, K.K Kapoor & K.S Yadav
66	Population genetics	Plant breeding	B.D Singh/Pundhan Singh
67	Disease of Horticultural crops and it's management I & II	Plant Pathology	TNAU Agri-portal





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68	Disease of vegetable crops and it's management I & II	Plant Pathology	TNAU Agri-portal
69	Seed development, maturation & chemical composition	Seed Technology	P.K Agarwal
70	Seed quality & factors affecting it	Seed Technology	P.K Agarwal
71	Seed production & certification	Seed Technology	P.K Agarwal
72	Seed processing, drying & testing	Seed Technology	P.K Agarwal
73	Seed treatment, storage & packaging	Seed Technology	P.K Agarwal
74	Seed borne insects and pathogens	Seed Technology	P.K Agarwal

- ✚ 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

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~Online Coaching~

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