

GATE 2018 Online Test Series - Bio Technology Engineering

Test No	Type of test	Test Live from	Test details	Test Syllabus	Difficulty level	No of questions	Max Marks	Test duration
1	Official Syllabus	17 Onwards	Engineering Mathematics-I	Linear algebra, statistics	Easy	10	15	30 min
2			Engineering Mathematics-II	Probability, calculus	Easy	10	15	30 min
3			Biochemistry-I	Enzyme Kinetics, Bioenergetics, Basic Concepts And Designs of Metabolism, Biomolecule Ramachandran Plot	Easy	10	15	30 min
4			Biochemistry-II	Biological Structure, Enzyme Kinetics, Biomolecular Structure, Photosynthesis	Easy	10	15	30 min
5			Biochemistry-III	Enzyme Classification, Bioenergetics, Enzyme Action	Easy	10	15	30 min
6			Microbiology-I	Nitrogen Fixation, Microbial Diversity, Virus	Easy	10	15	30 min
7			Microbiology-II	Microbial Nutrition, Methods In Microbiology, Microbial Diseases	Easy	10	15	30 min
8			Cell Biology-I	Ac circuits	Easy	10	15	30 min
9			Cell Biology-II	Prokaryotic And Eukaryotic Cell Structure	Easy	10	15	30 min
10			Molecular Biology and Genetics-I	Nucleic Acid Replication, Transposes, Mutations And Mutagenesis , Conjugation	Easy	10	15	30 min
11			Molecular Biology and Genetics-II	Molecular Structure of Genes And Chromosomes, Regulatory Mechanisms In Prokaryotes And Eukaryotes	Easy	10	15	30 min
12			Molecular Biology and Genetics-III	Translation And Their Regulatory Mechanisms In Prokaryotes And Eukaryotes , Extra Chromosomal Inheritance	Easy	10	15	30 min
13			Analytical Techniques-I	Light Microscope, Microarray, High Centrifugation, Hydrophobic Interaction	Easy	10	15	30 min
14			Analytical Techniques-II	Microscopy-Dark Field Microscopy, Raman Spectroscopy, Protein Microarray, Affinity Chromatography	Easy	10	15	30 min
15			Analytical Techniques-III	Ion Exchange Chromatography, Gel Filtration, Electrophoresis-Pulse Field, Dna Microarray	Easy	10	15	30 min
16			Immunology-I	B And T Cells And Macrophages-Inflammation, Tcells, Primary And Secondary Lymphoid Organ	Easy	10	15	30 min
17			Immunology-II	Antibody, Molecular Basis of Antibody Diversity, Major Histocompatibility Complex (Mhc)	Easy	10	15	30 min
18			Immunology-III	Antigen Processing And Presentation; Antibody Structure And Function, T Cells – Nk Cells	Easy	10	15	30 min
19			Bioinformatics-I	Major Bioinformatics Resources And Search Tools; Genomics, Force Fields	Easy	10	15	30 min
20			Bioinformatics-II	Scoring Matrix , Genomics, Sequence Analysis, Force Fields	Easy	10	15	30 min

21	Unit Test - Part	
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29th March 20:

Bioinformatics-III	MSA, Genomics, Molecular Dynamics And Simulations	Easy	10	15	30 min
RDNA Technology-I	DNA Sequencing, Gene Therapy, Southern Blotting, Rapd	Easy	10	15	30 min
RDNA Technology-II	Gene Transfer, Gene Expression, Yac	Easy	10	15	30 min
RDNA Technology-III	Vector, PCR, DNA Fingerprinting, Genomic Lib, Plasmid	Easy	10	15	30 min
Plant Biotechnology-I	Regeneration Of Plants , Plant Growth Regulators And Elicitors, Transgenic Plants	Easy	10	15	30 min
Plant Biotechnology-II	Totipotency , Tissue Culture, Cell Suspension, Plant Products	Easy	10	15	30 min
Plant Biotechnology-III	PGH, Cell Suspension Culture System , Plant Products of Industrial Importance	Easy	10	15	30 min
Animal Biotechnology-I	Transgenic Animals, Animal Cell Culture , Animal Cloning,	Easy	10	15	30 min
Animal Biotechnology-II	Media Composition, Growth Conditions, Animal Cell Preservation	Easy	10	15	30 min
Animal Biotechnology-III	Kinetics of Cell, Anchorage And Non-Anchorage Dependent Cell Culture	Easy	10	15	30 min
Bioprocess Engineering-I	Process Scale-Up, Economics And Feasibility Analysis, Aeration And Agitation	Easy	10	15	30 min
Bioprocess Engineering-II	Batch Process. Kinetics of Microbial Growth, Rheology of Fermentation Fluids	Easy	10	15	30 min
Bioprocess Engineering-III	Immobilization, Chromatography, Bioremediation, Production of Secondary Metabolites	Easy	10	15	30 min
Process Biotechnology-I	Production of Biomass, Production of Antibiotics, Industrial Application of Chromatographic	Easy	10	15	30 min
Process Biotechnology-II	Immobilization of Biocatalysts, Production of Biofuel, Bioremediation – Bioleaching	Easy	10	15	30 min
Process Biotechnology-III	Batch Fed Batch And Continuous Process, Mass Transfer Sterilization, Product Formation	Easy	10	15	30 min
Verbal Ability-I	Antonyms, synonyms, verbal analogies, word group, spotting errors and vocabulary building	Easy	10	15	30 min
Verbal Ability-II	Sentence completion, sentence improvement, critical reasoning, statements and conclusions,	Easy	10	15	30 min
Numerical Ability-I	Profit or loss, averages, number series,time and work, time, speed and distance, ratios and proportions and functions	Easy	10	15	30 min
Numerical Ability-II	Data interpretation, data sufficiency, clocks and calendars, directions and blood relations	Easy	10	15	30 min
Engineering Mathematics-I	Linear algebra,statistics	Moderate	20	30	60 min
Engineering Mathematics-II	Probability,calculus	Moderate	20	30	60 min

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Section Test - Partial Syllabus

7th June 2017 Onwards

Biochemistry-I	Enzyme Kinetics, Bioenergetics, Basic Concepts And Designs of Metabolism, Biomolecule Ramachandran Plot	Moderate	20	30	60 min
Biochemistry-II	Biological Structure, Enzyme Kinetics, Biomolecular Structure, Photosynthesis	Moderate	20	30	60 min
Biochemistry-III	Enzyme Classification, Bioenergetics, Enzyme Action	Moderate	20	30	60 min
Microbiology-I	Nitrogen Fixation, Microbial Diversity, Virus	Moderate	20	30	60 min
Microbiology-II	Microbial Nutrition, Methods In Microbiology, Microbial Diseases	Moderate	20	30	60 min
Cell Biology-I	Cell Communication	Moderate	20	30	60 min
Cell Biology-II	Prokaryotic And Eukaryotic Cell Structure	Moderate	20	30	60 min
Molecular Biology and Genetics-I	Nucleic Acid Replication, Transposes, Mutations And Mutagenesis , Conjugation	Moderate	20	30	60 min
Molecular Biology and Genetics-II	Molecular Structure of Genes And Chromosomes, Regulatory Mechanisms In Prokaryotes And Eukaryotes	Moderate	20	30	60 min
Molecular Biology and Genetics-III	Translation And Their Regulatory Mechanisms In Prokaryotes And Eukaryotes , Extra Chromosomal Inheritance	Moderate	20	30	60 min
Analytical Techniques-I	Light Microscope, Microarray, High Centrifugation, Hydrophobic Interaction	Moderate	20	30	60 min
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RDNA Technology-II	Gene Transfer, Gene Expression, Yac	Moderate	20	30	60 min

24			RDNA Technology-III	Vector, PCR, DNA Fingerprinting, Genomic Lib, Plasmid	Moderate	20	30	60 min
25			Plant Biotechnology-I	Regeneration Of Plants , Plant Growth Regulators And Elicitors, Transgenic Plants	Moderate	20	30	60 min
26			Plant Biotechnology-II	Totipotency , Tissue Culture, Cell Suspension, Plant Products	Moderate	20	30	60 min
27			Plant Biotechnology-III	PGH, Cell Suspension Culture System , Plant Products of Industrial Importance	Moderate	20	30	60 min
28			Animal Biotechnology-I	State space analysis, controllability, observability	Moderate	20	30	60 min
29			Animal Biotechnology-II	Media Composition, Growth Conditions, Animal Cell Preservation	Moderate	20	30	60 min
30			Animal Biotechnology-III	Kinetics of Cell, Anchorage And Non-Anchorage Dependent Cell Culture	Moderate	20	30	60 min
31			Bioprocess Engineering-I	Process Scale-Up, Economics And Feasibility Analysis, Aeration And Agitation	Moderate	20	30	60 min
32			Bioprocess Engineering-II	Batch Process. Kinetics of Microbial Growth, Rheology of Fermentation Fluids	Moderate	20	30	60 min
33			Bioprocess Engineering-III	Immobilization, Chromatography, Bioremediation, Production of Secondary Metabolites	Moderate	20	30	60 min
34			Process Biotechnology-I	Production of Biomass, Production of Antibiotics, Industrial Application of Chromatographic	Moderate	20	30	60 min
35			Process Biotechnology-II	Immobilization of Biocatalysts, Production of Biofuel, Bioremediation – Bioleaching	Moderate	20	30	60 min
36			Process Biotechnology-III	Batch Fed Batch And Continuous Process, Mass Transfer Sterilization, Product Formation	Moderate	20	30	60 min
37			Verbal Ability-I	Antonyms, synonyms, verbal analogies, word group, spotting errors and vocabulary building	Moderate	20	30	60 min
38			Verbal Ability-II	Sentence completion, sentence improvement, critical reasoning, statements and conclusions,	Moderate	20	30	60 min
39			Numerical Ability-I	Profit or loss, averages, number series,time and work, time, speed and distance, ratios and proportions and functions	Moderate	20	30	60 min
40			Numerical Ability-II	Data interpretation, data sufficiency, clocks and calendars, directions and blood relations	Moderate	20	30	60 min
1		19th July'17 Onwards	Extra Edge Test-01	Full syllabus	Easy	65	100	180 min
2		2nd August'17 Onwards	Extra Edge Test-02	Full syllabus	Easy	65	100	180 min
3		16th August'17 Onwards	Extra Edge Test-03	Full syllabus	Easy	65	100	180 min
4		30th August'17 - 13th Sept'17	Self Administered Test-1	Full syllabus	Easy & Moderate	65	100	180 min
5		13th Sept'17 Onwards	Extra Edge Test-04	Full syllabus	Easy & Moderate	65	100	180 min

6	Full length Mock Tests	27th Sept'17 - 11th Oct'17	Self Administered Test-2	Full syllabus	Easy & Moderate	65	100	180 min
7		4th Oct'17 Onwards	Extra Edge Test-05	Full syllabus	Easy & Moderate	65	100	180 min
8		18th Oct'17 - 31st Oct'17	Self Administered Test-3	Full syllabus	Moderate	65	100	180 min
9		1st Nov'17 Onwards	Extra Edge Test-06	Full syllabus	Moderate	65	100	180 min
10		15th Nov'17 - 28th Nov'17	Self Administered Test-4	Full syllabus	Moderate	65	100	180 min
11		29th Nov'17 - 12th Dec'17	Self Administered Test-5	Full syllabus	Moderate	65	100	180 min
12		13th Dec'17 - 26th Dec'17	Self Administered Test-6	Full syllabus	Moderate & Hard	65	100	180 min
13		23rd Dec'17 - 29th Dec'17	Monitored Test-01	Full syllabus	Moderate & Hard	65	100	180 min
14		30th Dec'17 - 5th Jan'17	Monitored Test-02	Full syllabus	Hard	65	100	180 min
15		6th Jan'17 - 12th Jan'18	Monitored Test-03	Full syllabus	Hard	65	100	180 min
16		23rd Jan'18 - 29th Jan'18	Monitored Test-04	Full syllabus	GATE level	65	100	180 min

