Rekha V.V.I. Questions for 2023 Examination

Answer of below mentioned V.V.I. questions are present in your Rekha Examination Guide and Guess Part-I Botany-1

1.	Explain the following—		
	(a) Koch's postulates V.V.I.		7
	(b) Infection		7
	(c) Coenocytic condition V.V.I.		8
	(d) Heterocyst and its role V.V.I.		8
	(e) Inoculum V.V.I.		8
	(f) Diplobiontic life cycle in algae		9
	(g) Cystocarp of Polysiphonia		9
	(h) Distinguish between parasite and saprophytes		10
	(i) Well labelled diagram of a Nostoc cell		11
	(j) Role of bacteria in industry		11
	(k) Economic importance of Fungi		12
	(1) Early blight of Potato V.V.I.		13
	(m) Development of Oogonium in Fucus V.V.I.		14
	(n) Globule of Chara		14
	(o) Characteristic features of Chlorophyceae		15
	(p) Range of thallus structure in algae		16
	(q) Teleutospores of Puccinia V.V.I.		16
	(r) Conjugation in bacteria		17
	(s) Diseases caused by bacteria		17
	(t) Symbiotic algae		18
	(u) T. M. V. (Tobacco Mosaic Virus) V.V.I.		18
	(v) Heteroecious fungi		18
	(w) Algae bloom (water bloom)		19
	(x) Parasexuality		19
	GROUP-A (Algae)		
1.	Write an account of classification of Algae given by F.E. Fritsch.		
	Or, Outline the classification of Algae put forward by Fritsch		
	and comment briefly.		20
2.	Give a brief and illustrated account of the range of structure		
	of the thallus in Chlorophyceae.		
	Or, Give an account the range of thallus structure in Algae		
	with suitable examples. V.V.I.		22
3.	Give an account of the habit, structure of thallus and mode of		
	reproduction in Fucus.		
	Or, Give a comprehensive account of the modes of		
	reproduction in Fucus. V.V.I.		24
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4.	Describe in brief occurrence, structure and reproduction of Algae.	 28
5.	Give an account of the structure and life history of Oedogonium.	20
	Or, Describe the sexual reproduction in Oedogonium. V.V.I.	 29
6.	Describe briefly the structure and life cycle of Chara. V.V.I.	 33
7.	Describe the structure and life-history of Polysiphonia.	 37
8.	Discuss briefly the general characteristic features and	4.1
0	classification of Rhodophyceae.	 41
9.	Discuss briefly the general features and classification of	4.4
10	Chlorophyceae.	 44
10.	Give an illustrated account of the structure and life history of	
	Vaucheria. V.V.I. On Describe the life history of Vaucheria and discuss its	
	Or, Describe the life history of Vaucheria and discuss its	
	systematic position.	47
11	Or, Give a brief account of sexual reproduction in Vaucheria.	 47
11.	Describe with neat labelled diagram of carposporophyte of	5 1
12	Polysiphonia.	 51
12.	Write short notes on the following : (i) Reproduction in Chara	54
	(ii) Economic Importance of Algae	 54 54
	(iii) Algal pigments V.V.I.	 55
	(iv) Reproduction in Nostoc V.V.I.	 56
	(v) Dwarf male of Oedogonium	 56
	(vi) Alternation of generation in Fucus V.V.I.	
	(vii) Sex organs of Chara V.V.I.	 57 57
	(viii) Sporangia of Fucus	 58
	(ix) Methods of reproduction in Anabaena	 58
	(x) Reproduction in Cyanophyceae (Myxophyceae)	 59
	(xi) Vegetative reproduction in Chara	 59 59
	(xii) Cell structure of Oedogonium	 60
	(xiii) Salient features of Phaeophyceae	 61
	(xiv) Synzoospore (Zoospores)	 62
	(xv) Gonimoblast filament	 62
	(xvi) Conjugation in Spirogyra	 63
	(XVI) Conjugation in Spirogyra	 03
	GROUP-B (Mycology and Phytopathology)	
13.	Write an essay on 'Economic importance of Fungi.'	 64
14.	Write a short essay on the symptom, transmission and control	
	of plant diseases caused by Puccinia.	
	Or , Describe briefly the different types of spore forms and	
	spore-fruits in Puccinia graminis. Name the respective hosts	
	on which they occur. V.V.I.	 67
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15.	Give an illustrated account of life-cycle of the fungus which causes Black wart disease of potato.		
16	Or, Describe the causal organism, symptoms and methods of control of the Black wart disease of potato (Synchytrium). Give a brief account of the various systems that have been		71
	suggested to classify fungi. V.V.I.		73
17.	Describe the life history of Cystopus (Albugo). Or, Write a descriptive account of the structure and		
18.	reproduction of Cystopus. V.V.I. Discuss briefly the life cycle of Fungi Alternaria. Or, Write the name of fungi causing early blight disease in potato.		77
10	Classify it and describe the method of reproduction in it.		81
	Give symptoms, etiology and control of Citrus Canker. V.V.I. Give symptoms, etiology and control of Tobacco mosaic virus. Or, Give an account of life cycle of any viral disease you		82
	have studied.		84
21.	Describe the life-cycle of the fungus which causes late blight		
	of potato and their control. V.V.I.		86
22.	How will you distinguish the following?		
	(i) Teleutospore and Uredospore		88
	(ii) Rust and Smut diseases		88
	(iii) Ascospore and Basidiospore		89
	(iv) Apothecium and cleistothecium		89
	(v) Conidiophore and Sporangiophore		89
23.	Write short notes on the following:		
	(i) General control measures of plant diseases V.V.I.		90
	(ii) Mycorrhiza		90
	(iii) Mycotoxin V.V.I.		91
	(iv) Various Modes of infection V.V.I.		91
	(v) Salient features of Fungi		92
	(vi) Asexual reproduction in Cystopus (Albugo) V.V.I.		92
	(vii) Various types of spores of Puccinia		93
	(viii) Disease Cycle		94
	(ix) Disease control by chemical method		94
	GROUP-C (Microbiology)		
	GROUT-C (MICTODIOlogy)		
24.	Draw a neat labelled diagram of a typical bacterial cell to show the detailed structure and describe the function of important organelles. Or, Describe ultrastructure of bacterial cell. V.V.I.		96
25.	Describe in brief the role of microbes in Nitrogen fixation.		98
25. 26.	Write a note on Fermentation.		
۷0.	WITH a HOLE OH PEHHEHLAHOH.	•••••	102

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27.	Describe the various methods of reproduction in Bacteria.	
	Or, Describe the methods of multiplication in Bacteria. V.V.I.	103
28.	What is Cyanobacteria? Give the characteristic features of it.	106
29.	Describe the structure, reproduction and nature of	
	bacteriophage (virus).	107
30.	Write an essay on the industrial importance of Bacteria.	
	Or, Point out the role of bacteria in industries. V.V.I.	109
31.	Describe the role of microbes (bacteria) in Agriculture. V.V.I.	111
32.	Describe the structure and properties of TMV (Tobacco Mosaic	
	Virus). How does it differ from bacteriophage?	113
33.	Discuss genetic recombination in bacteria.	115
34.	Write an essay on the role of bacteria in human health.	118
35.	Write short notes on the following:	
	(i) Cyanobacteria	119
	(ii) N ₂ fixation by bacteria	120

BOTANY - 1 (Hons.) (2022)

Answer any five questions, Selecting at least one from each groups in which Question Number 1 is compulsory.

1.	Write a brief account on the followings:	
	(a) Conjugation in Bacteria.	17
	(b) Differences between Smut and rust.	88
	(c) Characteristic features of chlorophyceae.	15
	(d) Teleutospore of Puccinia.	16
	(e) Cystocarp of Polysiphonia.	9
	Group-A	
2.	Describe life-history of Vaucheria and discuss its systematic	
	position.	47
3.	Give an account of range of thallus structure in Algae.	22
4.	Write short notes on any two of the followings:	
	(a) Cell structure of Oedogonium	60
	(b) Anabaena	58
	(c) Economic importance of algae	54
	Group-B	
5.	What is wart? Give an illustrated account of life-cycle of the	
	fungus which causes "Black wart disease of potato".	71
6.	Describe the life-cycle of Phytophthora.	
7.	Write short notes on any two of the followings:	
	(a) Disease cycle	94
	(b) Symptoms of the diseases	67
	(c) Disease control by chemical method	94
	Group-C	
8.	Discuss the genetic recombination of Bacteria.	115
9.	What do you mean by bacteriophage? Write down its nature	
	and structure with well labelled diagram.	107
10.	Write short notes on any two of the followings:	
	(a) Types of nutrition in Bacteria.	
	(b) Cyanobacteria	119
	(c) Ultrastructure of Bacterial cell. (no need of description)	96
	BOTANY - 1 (Hons.) (2021)	
	Answer five questions.	
S	electing at least one from each group in which Q. No.1 is compa	ulsory.
1.	Write short notes on followings?	
	(a) Heterocyst 8 (b) Koch's Postulates 7	
	(c) TMV 18 (d) Inoculum and infection 8	

(e) Pigments in red algae

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	Group-A	
2.	Describe the classification of algae as proposed by Fritsch.	20
3.	Describe the sex organs in Chara.	33
4.	Describe in brief the life cycle of Fucus.	24
	Group-B	
5.	Describe the life cycle of Puccinia graminis tritici.	67
6.	What is the causal organism of "White rust of Crucifers"? Discuss	
	its life cycle.	77
7.	Write short notes on any two of the following:	
, .	(a) Chemical control of disease 94 (b) Citrus Canker 82	
	(c) Early blight of potato 13	
	Group-C	
8.	What is Gram Staining? Describe the differences between Gram	
0.	+ve and Gram -ve Bacteria.	
0		109
9.	Describe the industrial importance of Bacteria.	109
10.	"Viruses are Biological Enigma". Explain giving nature and	107
	properties of viruses.	107
	BOTANY - 1 (Hons.) (2020)	
1.	Explain the following:	
	(a) Structure of Anabaena	58
	(b) Economic Importance of Algae	54
	(c) Teleutospore of Puccinia	16
	(d) Mycotoxin	91
	(e) Cyanobacteria (ultra structure)	119
	Group-A	
2.	Describe the range of thallus organisation in algae.	22
3.	Describe the life history of Vaucheria.	47
4.	Discuss the life cycle of Oedogonium.	29
_	Group - B	
5.	Describe the life cycle and its economic importance of	71
_	Synchytrium.	71
6.	Outline the classification of fungi put toward by G. C.	73
7	Ainsworth.	13
7.	Write a short notes on any two of the following: (a) Disease cycle	94
	(b) Symptoms	67
	(c) Economic importance of Fungi	64
	Group - C	04
8.	Describe the ultrastructure of Bacteria and give its economic	
٥.	importance.	96
9.	Describe the structure and reproduction of bacteriophage.	107
10.	Give in detail about the Genetic recombination in Bacteria.	115

Rekha V.V.I. Questions for 2023 Examination

Answer of below mentioned V.V.I. questions are present in your Rekha Examination Guide and Guess Part-I Botany-2

(ii) Antheridiophore of Marchantia (ii) Equisetum Strobilus (iii) Spike of Ophioglossum (iv) Sporophyte of Polytrichum (v) Salient features of Archegoniophore of Marchantia (vi) Prothallus of Psilotum V.V.I. (vii) Elaters of Bryophytes (viii) Gemma cup of Marchantia V.V.I. (ix) Thallus of Anthoceros V.V.I. (ix) Thallus of Ophioglossum V.V.I. (ix) Heterospory (iii) Protostele V.V.I. (xii) Types of Siphonostele or Medullated Protostele (xiv) Stem anatomy of Lycopodium V.V.I. (xv) Sporangia of Rhynia (xvi) L. S. Capsule of Sphagnum (xvii) Economic importance of Sphagnum V.V.I. (xviii) Cone of Calamites (xix) Protocorm (xx) Sporangia of Selaginella GROUP-A (Bryophyta) 1. Give a brief account of the general characters of Bryophytes. Or, Describe the various methods of vegetative reproduction in Bryophytes. Or, Describe the various methods of vegetative reproduction in Bryophytes. Or, Describe the various methods of vegetative reproduction in Bryophytes. Or, Describe the progressive evolution of gametophytes in Bryophytes with suitable examples. V.V.I. Or, Describe the progressive evolution of gametophytes thalli in Bryophytes with suitable examples. V.V.I. Or, Describe the post fertilization stages in Marchantia. 6. Give a comparative account of thallus structure of Marchantia. 316	1.	Give an account of the following:	
(ii) Equisetum Strobilus (iii) Spike of Ophioglossum (iv) Sporophyte of Polytrichum (v) Salient features of Archegoniophore of Marchantia (vi) Prothallus of Psilotum V.V.I. (vii) Elaters of Bryophytes (viii) Gemma cup of Marchantia V.V.I. (ix) Thallus of Anthoceros V.V.I. (x) Rhizome of Ophioglossum V.V.I. (xi) Heterospory (xii) Protostele V.V.I. (xii) Types of Siphonostele or Medullated Protostele (xiv) Stem anatomy of Lycopodium V.V.I. (xv) Sporangia of Rhynia (xvi) L. S. Capsule of Sphagnum (xvii) Economic importance of Sphagnum V.V.I. (xviii) Cone of Calamites (xix) Protocorm (xx) Sporangia of Selaginella GROUP-A (Bryophyta) 1. Give a brief account of the general characters of Bryophytes. Or, Describe the various methods of vegetative reproduction in Bryophytes. Or, Describe the various methods of vegetative reproduction in Bryophytes. Or, Describe the various methods of vegetative reproduction in Bryophytes. Or, Describe the brogressive evolution of gametophytes in Bryophytes. Or, Describe the progressive evolution of gametophytes in Bryophytes with suitable examples. V.V.I. Or, Describe the post fertilization stages in Marchantia and Anthoceros. V.V.I. Or, Describe the post fertilization stages in Marchantia and Anthoceros. V.V.I			 7
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and Anthoceros. V.V.I 34	6.		
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7.	With the help of labelled diagrams explain the structure of sporophyte of Anthoceros.		35
8.	Describe the salient features of Anthoceros. Mention the		
9.	biological significance of the sporophyte of the same. Give an account of the salient features of Sphagnum and its		37
	affinities. V.V.I.		40
10.	Describe the structure of sporophyte of Polytrichum. V.V.I.		43
11.	Describe the structural organisation of Polytrichum capsule		
10	and its mechanism of spore dispersal.		45
12.	Write short notes on the following:		
	(i) Conducting tissue in Bryophytes	•••••	47
	(ii) Alternation of generations in Bryophytes	•••••	47
	(iii) Peristome in Bryophytes V.V.I.		48
	(iv) Thallus of Marchantia	•••••	48
	(v) Salient features of Polytrichum V.V.I.	•••••	49
	(vi) Economic importance of Bryophytes	•••••	50
	(vii) Leaf of Sphagnum V.V.I.	•••••	50
	(viii) Anatomical features of the thallus of Marchantia.	•••••	51
	GROUP-B (Pteridophytes)		
1.	Define the term 'stele'. Give an illustrated account of various types		
	of steles met within pteridophyte in an evolutionary sequence.		
	Or, Describe the structure of different types of steles in		
	Lycopodium.		52
2.	Describe the modes of alternation of generation in Pteridophyte.		54
3.	What do you mean by 'Telome theory'? Illustrate the concept		
	with appropriate diagrams.		
	Or, Write an essay on the Telome theory in Pteridophytes.		56
4.	What is heterospory? What role it has played in the evolution		
	of seed habit.		59
5.	Describe the life cycle of Psilotum.		
	Or, Describe briefly the life cycle of any homosporous		
	pteridophyte studied by you. V.V.I.		62
6.	Give an account of the salient features of Psilotum,		
	emphasising its primitive features.		66
7.	Describe briefly the systematic position and salient features		
	of morphology and anatomy of Lycopodium. Add a brief note		
	on its distribution.	•••••	67
8.	Give an illustrated account of the life history of Equisetum.		
	Or, Give the structure and development of gametophyte of		
	Equisetum.		70

======= +80% EXAM. QUESTIONS COMES FROM REKHA EXAMINATION GUIDE =======

===:	====== +8U% EXAM.	 ===
9.	Draw a well labelled diagram of internal structure of Equisetum	
	stem and mention its salient features. V.V.I.	 74
10.	Give a brief and illustrated account of the systematic position,	
	habit, morphology and anatomy of Equisetum.	 77
11.	Describe briefly the systematic position and salient features	
	of morphology and anatomy of Ophioglossum. V.V.I.	 80
12.	Describe the morphological nature of the spike of	
	Ophioglossum.	 84
13.	Describe briefly the systematic position and salient features of	
	morphology and anatomy (reproductive part) of Rhynia. V.V.I.	 85
14.	Describe the stem structure and reproduction of Rhynia.	 88
15.	Give an account of different types of strobili found in	
	Calamites.	
	Or, Give a comprehensive account of common cone general	
	of Calamites. V.V.I.	 90
16.	Write critical notes on the following:	
	(i) Sporangiophore of Equisetum V.V.I.	 93
	(ii) Strobilus of Selaginella V.V.I.	 93
	(iii) Telome Theory	 94
	(iv) Sporangia of Rhynia	 94
	(v) Difference between Eusporangiate and Leptosporangiate	 95

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(vi) Types of Protostele V.V.I.

(vii) Homologous Theory V.V.I.

BOTANY - 2 (Hons.) (2022)

Answer any five questions, selecting at least one from each group in which Q. No.1 is compulsory.

1.	Give an account of any three of the followings:	
	(a) Archeganiophore of Marchantia.	9
	(b) Types of Siphonostele	10
	(c) Elaters and Pseudo elaters in Bryophytes.	11
	(d) Synangium of Psilotum.	62
	(e) Structure of sporophyte of Rhynia.	18
	Group-A	
2.	Explain various modes of vegetative propagation and modes	
	of perennation in Bryophytes.	24
3.	Write an illustrated account of the progressive sterilization of	
	sporogenous tissue among the Bryophytes studied by you.	26
4.	Describe the salient features of Anthoceros. Mention the	
	biological significance of the sporophyte of the same.	37
	Group-B	
5.	Write short notes on any two of the followings.	
	(a) Conducting tissues in bryophytes.	47
	(b) Alternation of generation in Bryophytes.	47
	(c) Anatomical features of the thallus of Marchantia.	51
	(d) Mechanism of dehiscence of capsule in Polytrichum.	45
6.	What is heterospory? What role it has played in the evolution	
	of seed habit.	59
7.	Define the term stale. Give an illustrated account of various	
	types of stele met within pteridophytes in an evolutionary	
	sequence.	52
8.	Describe the structure of different types of mature gametophytes	
	of Lycopodium.	77
9.	What do you mean by Telome theory? Illustrate the concept	
	with appropriate diagram.	56
10.	Write short notes on any two of the followings.	
	(a) T.S. of Equisetum stem.	74
	(b) Important features of Psilotum	66
	(c) Difference between eusporangiate and Leptosporangiate	
	mode of sporangial development.	95
	(d) Spike of Ophioglossum	8

BOTANY - 2 (Hons.) (2021)

Answer any five questions, selecting at least one from each group in which Q. No.1 is compulsory.

1.	Give an account of any three of the following:	
	(a) Protostale 15 (b) Economic importance of Sphagnur	n 19
	(c) Mature sporophyte of Marchantia (d) Calamites stem	90
	(e) Peristome 48	
	Group-A	
2.	Describe the progressive evolution of gametophyte in	
	bryophytes with suitable examples and diagrams.	28
3.	Describe the structure of sporophyte of Polytrichum. What is	
	the mechanism of dehiscence of its capsule?	43,45
4.	What do you understand by alternation of generation? Illustrate	
	it with the life history of sphagnum.	
5.	Give a comparative account of thallus structure of Marchantia	
	and Anthoceros.	34
	Group-B	
6.	Describe the salient features in the life-history of Psilotum.	62
7.	Describe the structure and development of spore producing	
	organs of Ophioglossum.	
8.	What is a Telome? Explain the steps involved in the origin of	
	Megaphyllous leaves through Telome theory.	56
9.	Describe the morphological and anatomical characters of stem of	
	Equisetum.	74
10.	•	
	(a) Merit and demerit of Telome theory.	56
	(b) Strobilus of Selaginella	93
	(c) Different types of mature gametophyte of Lycopodium	17
	(d) T.S. of Selaginella stem.	

BOTANY - 2 (Hons.) (2020)

Answer five questions selecting at least one from each Group in which Q. No.1 is compulsory.

1.	Give an account of any three of the following:	50
	(a) Leaf of Sphagnum	
	(b) Sporogonium of Anthoceros	11
	(c) Elaters and Pseudoelaters	17
	(d) Gametophyte of Lycopodium	18
	(e) Structure of Sporophyte of Rhynia	
	Group-A	
2.	"There has been gradual sterilization of sporogenous tissue in	
	the sporogonium of Bryophytes." Justify with suitable diagrams.	26
3.	Give an account of the salient features of Anthocecos and discuss its affinities.	37
4.	Describe the structure and development of sporogonium of	31
	Marchantia.	
5.	Describe the various methods of vegetative propagation and modes of perennation in Bryophytes.	24
	Group-B	
6.	Discuss, in detail, the evolution of stele in pteridophyta giving	
0.	suitbale diagrams.	52
7.	Give an illustrated account of sporophyte of lycopodium.	
8.	"Heterospory leads to seeds habit." Comment upon the statement critically.	59
9.	Draw a labelled diagrams of spore-bearing organs of	
	homosporous and heterosporous petridophyta studied by you	. 59,62
10	givining their basic differences.	74
10.	Write critical notes on any two of the following:	
	(a) T. S. of Equietum Stem	62
	(b) Synangium of Pilotum	11
	(c) Germa Cup of Marchantia	