

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024
(Second Semester)

Branch - BOTANY

PLANT PATHOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	The ability of a pathogen to cause disease is (i) Pathogenesis (ii) Pathogenicity (ii) Pathovar (iv) Parasexualism	K1	CO1
	2	Infer the mode of entry of pathogens in plants. (i) Stomata (ii) Cell membrane (iii) Cell sap (iv) Cytoplasm	K2	CO1
2	3	Phytoalexins produced by plants in response to fungal infections are (i) Phenolic compounds (ii) glycoproteins (iii) Proteins (iv) Lipids	K1	CO2
	4	Scab type symptoms are produced due to (i) Fungi (ii) bacteria (iii) Virus (iv) Nematode	K2	CO2
3	5	Show the causative organism of rust disease of wheat. (i) <i>Taphrina deformans</i> (ii) <i>Puccinia graminis</i> (iii) <i>Erysiphe polygoni</i> (iv) <i>Claviceps purpurea</i>	K1	CO3
	6	Which of the following disease is related to groundnut? (i) Tikka disease (ii) Red rot (iii) Rhizome rot (iv) Late blight	K2	CO3
4	7	TMV disease can be transmitted through (i) Aphids (ii) Leafhoppers (ii) Thrips (iv) Birds	K1	CO4
	8	Relate the causal organism of citrus canker (i) <i>Alternaria solani</i> (ii) <i>Xanthomonas citrii</i> (iii) <i>Fusarium solani</i> (iv) <i>Aspergillus niger</i>	K2	CO4
5	9	The host method of controlling rust disease is through (i) fungicides spray (ii) Cultural practices (iii) Resistant varieties (iv) Fumigation	K1	CO5
	10	Most of the plant parasitic nematodes feed on (i) Roots (ii) Leaves (iii) Stem (iv) Flowers	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Classify plant diseases based on different symptoms.	K4	CO1
	(OR)			
	11.b.	Examine Koch's postulates for pathogenicity.		
2	12.a.	Demonstrate the dispersal of plant pathogens.	K4	CO2
	(OR)			
	12.b.	Decipher the role of phytoalexins in plant diseases.		
3	13.a.	Explain the causal organism and symptoms of Red rot of sugarcane.	K5	CO3
	(OR)			
	13.b.	Interpret the symptoms of white rust of crucifers.		
4	14.a.	Evaluate the symptoms of TMV.	K5	CO4
	(OR)			
	14.b.	Prioritize the control measures and symptoms of Citrus canker.		
5	15.a.	Discuss Sandal spike as a destructive disease.	K6	CO5
	(OR)			
	15.b.	Elaborately write an account on nematode diseases.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Analyze the defense mechanism in plants.	K4	CO2
2	17	Discover various control methods of plant diseases.	K4	CO1
3	18	Rust disease of wheat is a most devastating disease- Justify.	K5	CO3
4	19	Defend how will you identify and control blight of paddy in field?	K5	CO4
5	20	Discuss the symptoms and control measures of Little leaf of brinjal.	K6	CO5

Z-Z-Z

END