Objective Plant Pathology Dr Ravindra Kumar Pandey

1. Tea rust is ca	used by				
a) MLO b) Virus c)	Bacteria	d) Alga	e	
2. The Colletoti	richum falcatum	produces			
a) Zygospores	b) Oospor	res c).	Ascospores	d)) Conidiospores
3. Wilt of pigeo	on pea is caused l	by			
a) Fusarium udu	<i>um</i> b	o) Gibberello	indica		
c) Rhizopus nigi	ricans (d) Aspergillu	s flavus		
4. For the effect	tive control of w	ilt, pigeon p	ea should b	e intercropp	oed with
a) Maize	b) Pearl millet	c) So	orghum	d) Mung	2
5. The most in <i>vasinfectum</i>) is	iportant symptor	n of wilt of	cotton (cau	sed by Fusa	urium oxysporum fsp
a) Necrosis	b) Yellowing of	tissues			
c) Discolouration	on of tissues and	plugging of	vessels by	hyphae	d) All of these
6. Wilt disease	of sugarcane was	s first time 1	eported in 1	India from	
a) Punjab	b) Tamil Nad	u c)	Bihar	d) Utt	ar Pradesh
7. The pathoger	n responsible for	charcoal ro	t of soybear	n is	
a) Ascochyta ra	biei b) N	Ласгорhот	na phaseol	ina	
c) Rhizoctonia	solani d) F	Penicillium c	hrysogenun	n	
8. The incidence	e of black scurf	of potato is	more in		
a) Sandy soil	b) Clay	soil	c) Alluv	ial soil	d) Loam soil
9. The attack of	sheath blight of	rice (cause	d by <i>Rhizoc</i>	tonia solani	i) is more during
a) Germination	b) Activ	e tillering st	age (c) Flowering	d) All of these
10. Resistance t	to broad range of	f Powdery n	nildew is of	fered by	
a) RPW8	o) cf-8 c) H	Im-1	d) Xa21		
11. Differntial r	esistance is also	called as			
a) Horizontal re	sistance b) Verti	ical resistan	ce c) Appar	ent resistan	ce d) Field resistance
12. Supressors	of RNAi silencir	ng			
a) HC-compone	ent of Poty virus	es b) p ²⁵ p	protien of po	otato virus 2	C) Both a and b
13. RISC is form	med by				
a) ssRNA+ Pro	teins b) Pro	oteins	c) ssRNA	d) ds	RNA
14. Viroids are	discovered by				
a) Diener	b) Prusiner	c) Doi	d) k	Kassanis	
15. Pathogenici	ty of bacteria is	controlled b	y		
a) Type-III b) Type-II	c) Typ	e-I	d) Type-I	V

16. Mycoplasma cell membranes have how many layers							
a) One layer	b) Two layer	rs c)	Three layers	d) Fo	our layers		
17. Leaf puckering as a result of different growth rates in adjoining tissue is							
a) Savoying b) Hyperplasia c) Sarcody d) Intumesence							
18. The uredos	pores of Puccinia	graminis are	disseminate	d by			
a) Wind	b) Animals	c) Insect	d) Bird	.s			
19. G + C conte	ent of prokaryotes	is					
a) 20 %	b) 30 %	c) 50%	d) 70%				
20. Bacterial ce	ell division mainly	by					
a) Binary divisi	ion b) Frag	ment	c) Buddir	ıg	d) None of these		
21. Shape of M	ILO is						
a) Rigid	b) Cuboid	c) Circu	lar d)	Polymorphi	c		
22. Sensitivity	of ELISA						
a) 1-10 ng/ml	b) 10-20 ng/	/ml	c) 0.2-1 ng/m	ıl d)) 5-20 ng/ml		
23. Teichoic ac	id found in						
a) Fungi	b) Gram + ve bac	cteria	c) Gram -	ve bacteria	d) Protozoa		
24. Father of Ir	ndian bacteriology						
a) Louis Pasteu	ır b) Robert	Koch	c) Doi	d) E.F.Sı	nith		
25. Plant Patho	logy written by						
a) R.S.Singh	b) Agrios	c) V.S	.Singh	d) A.P.S	Sinha		
26. Rickettsia d	disease is caused b	y					
a) Gram –ve fa	stidious bacteria	b) Gr	am +ve fastic	lious bacteri	a		
c) Clavibacter x	cyli	d) Both b ar	nd c				
27. In north Inc	lia and central Ind	ia, the black	rust inoculur	n cause from	1		
a) South b) Hilly area c) From USA d) From Netherlands							
28. Teliospore	of rust has germ p	ores in numl	per				
a) 1 b) 2 c) 3 d) 4							
29. Rice blast pathogen perfect stage is							
a) Pyricularia oryzae b) Magnaporthe grisea							
c) Helminthosporium oryzae d) Rhizoctonia solani							
30. Smut of maize is caused by							
a) Ustilago triti	ici b) Ustilago	o maydis	c) Ustilago	hordei	d) None of these		
31. Virus capsid is made up of							
a) Protein	b) Carbohydrate	c) Lipid	d) Nuc	cleic acid			
32. Phyllody disease of sesamum spread by							

a) Leaf hopper b) Jassid c) Aphid d) Whitefly									
33. Fungi imperfecti includes in									
a) Deuteromycotina b) Basidiomycotina c) Ascomycotina d) Oomycotina									
34. Mycoviruses contain									
a) ds RNA b) ds DNA c) ss RNA d) ss DNA									
35. Hrp genes are discovered by									
a) Albersheim b) Lindgren & Peet c) Morris d) Staskawicz									
36. Microorganisms in Diseased Plants is written by									
a) R.S.Singh b) C.D.Mayee c) S. Nagarajan d) A.Mahadevan									
37. Who recognized hypersensitive response in bacteria									
a) Stakmann b) Z Klement c) H.M.Ward d) Biffen									
38. Downy mildew of pea caused by									
a) Perenospora pisi b) Albugo candida c) Erysiphe polygoni d) None of these									
39. Father of Indian Mycology									
a) E.J.Butler b) K.C.Mehta c) Mundkur d) R.S.Singh									
40. Renowned scientist Norman E. Borlaug belongs to									
a) Agronomy b) Genetics c) Entomology d) Plant Pathology									
41. In 2005 which pathological scientist got Borlaug award									
a) Rattan lal b) V.L.Chopra c) C.D.Mayee d) S.Nagarajan									
42. Which of the following bacteria generally used in genetic engineering for transfer of character from one organism to another									
a) Bacillus thuringinesis b) Pseudomonas syringe									
c) Rhizobium meliloti d) Agrobacterium tumefaciens									
43. Micrografting is used to produce plants free from									
a) Virus b) RLO's c) MLO's d) Bacteria									
44. Black heart is a physiological disorder of									
a) Tomato b) Chilli c) Potato d) Cabbage									
45. Which of the following is not correctly matched?									
a) Mustard- white rust b) Paddy-Brown rust									
c) Wheat-Red rust d) Groundnut – Tikka									
46. Tungro disease of rice is spread by									
a) Nephotettix virescense b) Sogatella fucifera									
c) Nilaparvatha leugens d) Thrips tabaci									

47. The term hypersensitive response is given by								
a) Stakmann b) Erickson c) H.M.Ward d) W.A.Orton								
48. Soil microorganism are most active at								
a) 18-20 °C b) 26-28°C c) 30-30°C d) 34-36°C								
49. VAM is								
a) Bacteria b) Fungi c) Virus d) Algae								
50. Which of the following is not a disease of apple?								
a) Bird eye b) Powdery mildew c) Downy mildew d) Bunchy top								
51. Buck eye rot is disease of which crop								
a) Water chestnut b) Sweet potato c) Pods of garden pea d) Tomato fruits								
52. The major storage fungi that affects the food grain is								
a) Rhizobium b) Mucor c) Cercospora d) Aspergillus								
53. Yellow leaf mosaic of bhendi crop spreads by								
a) Jassids b) Borers c) Jassid and borers d) Whiteflies								
54. Polymorphism in fungi is first noticed by								
a) Anton de Bary b) Tulsane brothers c) E.M.Fries d) B. Prevost								
55. Which of the disease (s) induce floral abnormalities?								
a) Downy mildew of mustard b) Green ear of bajra								
c) White rust of crucifers d) Both (b) and (c)								
56. Which one of the following microbial agents is being commercially exploited as biocontrol agent?								
a) Bacillus subtilis b) Penicillium notatum								
c) Sclerotium rolfsi d) Trichoderma viride								
57. Panama disease of banana is prevented by								
a) Spraying zinc carrier b) Spraying copper fungicide								
c) Application of lime to the soil d) Providing adequate irrigation								
58. Which one the following fungicides is not systemic in nature								
a) Vitavax b) Thiram c) Benlate d) Topsin								
59. Which one of the following is/are entomopathogenic fungi?								
a) Beauveria bassiana b) Metarrhizium anisopliae								
c) Trichoderma harzianum d) Both (a) and (b)								
60. Which penicillium species used in Cheese making								
a) Penicillium notatum b) Penicillium roqueforti								
c) Penicillium diversicaudatum d) Penicillium crysogenum								

61. CARNA-5
a) Satellite RNA b) Satellite Virus c) Virus d) Bacteria
62. Bacterial diseases are controlled by use of chemicals
a) Kelthane b) fungicide c) Antibiotics d) Viricides
63. Application of potash increases
a) Resistance to water logging b) Frost resistance in plants
c) Disease resistance in plants d) None of these
64. Decomposition of organic matter in submerged soil is carried out by
a) Bacteria b) Actinomycetes c) Fungi d) Earthworm
65. The sedimentation coefficient for most of viruses is between
a) 50-200S b) 100-200S c) 200-300S d) 25-50S
66. Most of viruses have buyant density between
a) 1.2 and 1.6 g/cm 3 b) 1.4 and 1.8 g/cm 3 c) 1.0 and 1.2 g/cm 3 d) 1.8 and 2 g/cm 3
67. Phenols present in the red scales of onion
a) Catechol b) Procatechoic acid c) Saponin d) a&b
68. Alteration of generation is seen in
a) Alternaria b) Allomyces c) Neovassia d) Tilletia
69. Local and systemic infection is seen in
a) White rust of crucifers b) Late blight of potato c) Coffee rust d) Rice blast
70. Viruses contain
a) RNA b) DNA c) Both RNA and DNA d) Either RNA or DNA, never both
71. The viruses which are usually helped or accompanied by smaller spherical particles of another serologically unrelated virus is known as
a) Satellite virus b) Gemini viruses c) Viroid d) Capsid
72. Select the correct pair from the following
a) Hypotrophy- decrease in size b) Hypertrophy- increase in size
c) Hyperplasia- increase in number d) All of these
73. In plants buckling, puckering and blistering symptoms are produced by
a) Bacteria b) Fungi c) Viruses d) Mycoplasma
74. The fungi which transmit plant viruses belong to class
a) Basidiomycetes b) Oomycetes c) Zygomycetes d) Plasmodiophoromycetes
75. For quick and accurate detection of viruses can be done by
a) ELISA b) HADAS c) IEM d) All of these

76. Potato viruses are spread by							
a) Aphids b) Jassids c) Nematodes d) Tubermoth							
77. Most of the plant viruses transmitted by							
a) Whiteflies b) Plant hopper c) Leaf hopper d) Aphids							
78. Bunchy top of papaya (caused by MLO) is spread by							
a) Nematodes b) Fungi c) Whitefly d) Leaf hoppers							
79. Yellow mosaic of legumes was first reported in India from							
a) Shimla b) Solan c) Delhi d) Kanpur							
980. Potato spindle tuber disease is transmitted by							
a) Mechanically b) biologically c) Water d) All of these							
81. Select the correct pair from the following matched items:							
a) Holo stem parasite- <i>Cuscuta reflexa</i> b) Stem semi parasite							
c) Holo root parasite – Orobanche d) All of these							
82. Suicidal germination takes place in							
a) Dodder b) Striga c) Loranthus d) <i>Dendrophthoe falcata</i>							
83. Chitin is composed of							
a) Chitinin b) Glucose c) Cerasan d) N-acetyl glucosamine							
84. Damping off and leaf blights are very effectively checked by							
a) Bordeaux mixture b) Burgundy mixture c) Thiram d) Copper oxychloride							
85. The organo-mercurials fungicides used for dry seed treatment usually contain mercury							
a) 0.5% b) 1.0 % c) 2.0 % d) 4.0%							
86. Dinocap (methyl heptyl dinitrophenyl crotonate) is sold in market as							
a) Bravo b) Dexon c) Botron d) Karathane							
87. Von Schleming and Kulka first time demonstrated the systemic activity of fungicides in							
a) 1956 b) 1966 c) 1972 d) 1976							
88. Select the fungicides:							
a) Pyrimidines b) Triazoles c) Metalaxyl d) All of these							
89.Infective spores in rust life cycle are							
a) Uredospores and Aeciospores b) Uredospores and Teliospores							
c) Teliospores and Basidispores d) Pycniospores and Uredospores							
90. Tick out he pair which is wrongly matched							
a) Oxycarboxin- Plantvax b) Carboxin- Benlate							
c) MBC-Bavistin d) Benomyl- Benlate							
91. Most commonly used transposon in molecular plant pathology is							
a) Bn6 b) Hm1 c) Tn5 d) T4							

92. Black or Silvery scurf of potato is caused by									
a) Sclerotium r	olfsii	b) Rhizoctonia solani							
c) Ralstonia so	lanacearum	d) Phytophthora infes	stans						
93. Forecasting	93. Forecasting system developed for apple scab on the basis of								
a) Amount of i	a) Amount of inoculum b) Leaf wetness period and temperature								
c) RH	d) Temperature								
94. Largest kno	ow viroid								
a) Cirtus Exoco	ortosis viroid	b) Potato spindle tube	er viroid						
c) Coconut cad	lang cadang viroi	d d) Apple scar viroid							
95. The pathogenicity of a viroid is determined by which region									
a) Pathogenicty region & Terminal region b) Terminal region & Variable region									
c) central conserved region & Pathogenicty region d) Variable region									
96. The science which deals with cause of the plant diseases and nature of the causal agent									
a) Fertilization b) Etiology c) Aetiology d) Both (b) and (c)									
97. The sexual, thick walled and resting spores of the rust fungi is known as									
a) Basidiospore	es b) Uredios	pores c) Teliospo	ores d) Aeciospores						
98. Who discovered the downy mildew for the first time in India?									
a) E.J.Butler b) J.F.Dastur c) B.B.Mundkur d) K.R.Kirtikar									
99. Which one of the following is a single cell fungi?									
a) Yeast	b) Aspergillus	c) Penicillium	d) Alternaria						
100. What is the source of Agar Agar?									
a) Bacteria	b) Fungi	c) Mycoplasma	d) Algae						

Answers

1.	d	11. b	21. d	31.	a	41. d	51. a	61. a	71. a	81. d	91. c
2.	d	12. c	22. a	32.	a	42. d	52. d	62. c	72. d	82. b	92. b
3.	a	13. a	23. b	33.	a	43. a	53. c	63. c	73. c	83. d	93. a
4.	c	14. a	24. d	34.	a	44. c	54. b	64. a	74. d	84. d	94. a
5.	c	15. a	25. b	35.	b	45. c	55. d	65. a	75. d	85. b	95. a
6.	c	16. c	26. d	36.	d	46. a	56. d	66. a	76. a	86. d	96. d
7.	b	17. a	27. a	37.	b	47. d	57. c	67. d	77. d	87. b	97. c
8.	a	18. a	28. b	38.	a	48. d	58. b	68. b	78. d	88. d	98. a
9.	b	19. a	29. b	39.	a	49. b	59. d	69. a	79. c	89. a	99. a
10.	a	20. a	30. b	40.	d	50. d	60. b	70. d	80. a	90. b	100. d