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**RE-APPEAR, EXAMINATION
DEC, 2024**



K.R. MANGALAM UNIVERSITY

Course Code – SAAG301A, Course Name: Principles of Integrated Disease Management

Programme Name: Bachelor of Science (Hons.) Agriculture

Time: 2.5 Hours

M.M: 30

Instructions: All questions are compulsory. The question paper consists of 10 questions divided into three parts A, B and C. Section-A comprises 5 questions of 1 mark each, Section-B comprise 3 questions of 3 marks each and Section-C comprises 2 questions of 8 marks each. Q. No. 7, Q. No. 9 and Q. No. 10 have internal choices.

Section-A (5 X 1 = 5 Marks)

1	Multiple Choice questions, each 0.5 marks. a) Which of the following is a sea port recognized as quarantine stations by govt. of India? i) Tuticorin ii) Hyderabad iii) Both (i) and (ii) iv) None of the above b) Prevents the contact between host and pathogen: i) Eradication ii) Protection iii) Avoidance iv) None of the above	CO1						
2	Fill in the blanks with appropriate words: each 0.5 mark. a) Host's ability to limit pathogen multiplication b) Methods applied after plant is infected	CO2						
3	State true/false against the given statements, each 0.5 mark. a) Bangaon Benapol Border is a land frontiers where import of plant material is allowed by the Govt. of India is situated at West Bengal. b) Tiruchirappalli is an airport where import of plant material is allowed by the Govt. of India.	CO3						
4	Match the land frontiers where import of plant material is allowed by the Govt. of India given in Column-A with the state it is situated in Column-B: each 0.5 mark <table><tr><td>Column-A</td><td>Column-B</td></tr><tr><td>(i) Sukhia Pokhri</td><td>(a) Punjab</td></tr><tr><td>(ii) Attari-Wagah Border</td><td>(b) West Bengal</td></tr></table>	Column-A	Column-B	(i) Sukhia Pokhri	(a) Punjab	(ii) Attari-Wagah Border	(b) West Bengal	CO4
Column-A	Column-B							
(i) Sukhia Pokhri	(a) Punjab							
(ii) Attari-Wagah Border	(b) West Bengal							
5	Expand the following, each 0.5 mark. a) ICAR b) DIP Act	CO5						

Section B (3 X 3= 9 Marks)

6	How the copper compounds are helpful in managing diseases?	CO 1
7	How different cropping methods are helpful in IDM? OR Enlist the tools of IDM with example.	CO 3
8	1. Describe the following in brief: a) Importance of IDM b) Concept of IDM c) Principles of IDM	CO 4

Section C (2 X 8 = 16 Marks)

9	Highlight the domestic quarantine regulations for the following: a) Bunchy Top of Banana b) Apple Scab OR How application of biotechnology is helpful in plant disease management?	CO4
10	Elaborate the effective components of physical method for controlling diseases in plants?	CO5