

ASRB NET EXAM 2023 (PLANT PATHOLOGY)- MEMORY BASED QUESTION

Note- It's merely a memory-based question (discussed by professionals) may be some question and answer is not accurate

- RNA silencing occurs in – **Cytoplasm**
- Blast of Rice 1st recorded from - **China**
- In resistance cultivar rate of respiration – **Generally Increases**
- During stress condition in plants- **Phenol pathway**
- Simple microscope is discovered by- **Leeuwenhoek**
- ‘Theory of spontaneous Generation’ put forwarded by- **Louis Pasteur**
- Tyndallization process- **100 degree Celsius, 20-30 min, 3 days**
- Striga produces seed @- **50,000- 500,000**
- Size of rod shape virus-
- Ultra low volume- **5-50 l**
- Karnal bunt pathogen survives in – **Seed coat**
- Nucleic acid - **5-40%**
- X ray crystallography image of TMV- **R Franklin**
- 1st resistance gene- **Hm1 Corn**
- PTGS involve- **RNAi**
- 1st Bacterial disease reported in India- **Bangle blight of potato**
- Panama wilt of banana- **Fusarium oxysporum**
- Family of Partial stem parasite-
- Kingdom protozoa separated from- **Protista**
- Hot water treatment- **Loose smut of wheat**
- Type 2 secretion system- **Gram –ve bacteria**
- Type 3 secretion system- **Responsible for pathogenicity**
- Agrobacterium does not cause – **Canker**
- 1st bacterial biocontrol agent- **Agrobacterium radiobacter K84**
- Pyrimidine fungicides- **Ethriminol**
- Anthracnose- **Collectotrichum**
- Resolving power- **Wavelength / 2x numerical aperture**
- TEM- **0.1-0.2nm**
- Moko disease – **R.solanacearum Race-2**
- Which of following mode of action is not correct- **Bacitracin** (other options are true)
- Streptomycin isolated from- **Streptomyces griseous**
- Correct pair- **Chrysanthemum stunt- virioids**
- Branched Mitochondrial cristae-
- Viral envelop is made up of- **Phospholipids and glycoproteins**
- Bacteria food storage- **Beta laminarin**
- Fungus energy storage- **Glycogen**
- Gram –ve- **4 rings**

- Yellow ear rot- *Anguina tritici*
 - Khaira disease of rice- **Zn deficiency**
 - Whiptail of cauliflower- **Mo deficiency**
 - Hollow stem of cauliflower- **Boron deficiency**
 - Which is not High temperature physiological stress- **Apple scald / water core**
 - Antibiotic which control fungus- **Kasugamycin**
 - Virus movement through- **Plasmodesmata**
 - Aphid take virus which multiply inside body- **Propogative virus**
 - Principle of soil solarisation- **Transparent sheet capture heat of sunlight**
 - 1st resistance develops in- **Fungi- Fungicides**
 - Which is not PM genera- **Spilocema**
 - Not host specific toxin- **Cercosporin**
 - Tentoxin – *Alternaria alternata*
 - **Foot rot is not caused by Fusarium**
 - Epidemic rate of late blight of potato- **0.3-0.5 per day**
 - Endospore survive at temperature- **100 degree cel.**
 - Strobilurins – **Wood rotting fungus**
 - Oomycetes- **Metalyxl**
 - Pathogen resistance to oxanthins fungicides has- **Succinic dehydrogenase**
 - DPPQS- **Faridabad**
 - Avirulence to virulence in *Ralstonia solanacearum*- **PAC gene**
 - Citrus exocortis root stock- *Citrus aurentifolia*
 - Mollicutes belongs to- **Tenericutes**
 - Satellite virus- **Satellite genome depend on host to carry out their replication**
 - Multipartite virus required for- **Multiplication**
 - Acid rain – **below 5.6 pH**
 - Black heart of potato- **Lack of oxygen**
 - Book regarding pollutant in environment- **Silent spring**
 - **Pigeonpea sterility from India[correct]** (which of the option is not correct)
 - Confined to particular area- **Endemic**
 - Which is 1st to bind during PCR for nucleic acid synthesis- **Primer**
 - Autoclave – **works under high pressure**
 - Electrophoresis- **Movement towards electrodes**
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- 1st Plant pathology book- **Kuhn**
 - 1st study of fungus in India- **KR Kirtikar**
 - SAR- **Salicylic acid**
 - ISR- **Jasmonic acid**
 - Microograsim colonizing around seed- **Spermatophytes**
 - PR -2 – **Beta 1-3 glycosides**
 - Ganoderma causes- **Basal stem rot (Oil palm)**
 - Gene for gene- **HH Flor 1946**
 - Microcyclic rust bears spores- **Teliosores, Basidiospores**
 - Not rust genus- **cy....**
 - Fly fungus- **Entomophthora, Amantia (Both)**

- Curved Acute angle bearing sporangia at tip- **Perenospora**
 - Which is not necrotroph- **Erysiphe**
 - Bdellovibrio- **Affect gram-ve**
 - Sphaerplast- **Gram-ve**
 - Elementary corpuscles found in- **L form bacteria**
 - Mycovirus- **Virus affecting fungi**
 - Parenthosome found in – **Basidiomycetes**
 - Common scab of potato- **Streptomyces scabies**
 - Bacterial disease internal seed borne- **Black rot of crucifers**
 - Loose smut of wheat- **Internal seed borne**
 - MAS- **increase efficiency and effectiveness**
 - Vertifolia- **breakdown of horizontal resistance**
 - Vertical resistance- **single gene, qualitative**
 - Deuteromycetes- **anamorph**
 - Fusarium- **anamorph**
 - Oomycetes cell wall –**cellulose**
 - Hertigs net formed by- **Ectomycorrhiza**
 - Fusion of two similar gametangia- **Zygospore**
 - Peach leaf curl- **Taphrina deformans**
 - AUDPC slope represents- **Rate of epidemic**
 - For same disease assessment which curve is used- **Gradient curve (?)**
 - The number of time disease severity was evaluated the disease severity at each evaluation time and **the time duration of the epidemic.**
 - r for late blight of potato- 0.3-0.5 per day
 - Role of salt during DNA isolation – **Crystallization**
 - Measure performed in order to prevent plant from disease- **Prophylactic measure**
 - Quarantine word meaning- **Forty**
 - Father of plant pathology in India- EJ Butler
 - TNV transmitted by- **Olpidium brassicae**
 - Bacterial leaf blight most dangerous stage- **Kresek phase**
 - Diameter of bacteria- **0.2-1.5 µm**
 - **WTO- 1 Jan 1995**
 - Scientist associated with club root of crucifers- **Woronine**
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- **Destructive Insect and pest act- 1914**
 - Coenocytic mycelium- **Oomycetes**
 - Black arm is related with – **Angular leaf spot of cotton**
 - St. Antony fire- **Claviceps purpurea**
 - Noble prize for discovery of prions- **Prussiner**
 - Saturation curve- **Monocyclic disease**
 - Which is not optical part of microscope- **Body tube**
 - *R. solanaceum* race virulence is due to which gene- **PAC gene**
 - Which is not feature of endophyte bacteria- **It form structure within plant cell (X)**
 - Cross protection is performed with the use of- **mild strain of same virus**
 - For analysis of image of diseased plant- **Multispectral**

- When haploid and diploid phase alternates in life cycle of fungus- **Haplodiplontic**
- Multiline referred to as- **Have different character for exploiting vertical resistance**
- For an epidemic to occur inoculum of virus causing seed borne disease is present in- **Endosperm**
- Viroid's are found in – **Phloem**
- Virus are transmitted through which phanerogamic plant parasite- **Dodder**
- Trap crop used for broomrape- **Flax**
- Highest level – **Kingdom**
- Pineapple smelly in sugarcane – **Sett rot**
- Known as Kittelson killer- **Captan**