

DO NOT BREAK THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

QUESTION BOOKLET

SERIES I

PAPER- III (Agricultural Entomology, Plant Pathology, Agricultural Meteorology)

BOOKLET SERIAL NO.

630517

Marks : 100

Time : 1 hour

Read the following instructions carefully before you begin to answer the questions.

INSTRUCTIONS TO CANDIDATES

1. This booklet contains **50 questions** to be answered in a separate OMR Answer Sheet using Black Ball Pen in following three parts:
Part-A-Agricultural Entomology : 20 questions, Part-B- Plant Pathology : 20 questions, Part - C- Agricultural Meteorology : 10 questions
2. All Questions are compulsory.
3. You will be supplied the Answer sheet separately by the invigilator. You must complete the details of particulars asked for.
4. Answers must be shown by completely blackening the corresponding circles in the Answer Sheet against the relevant question number by Black Ball Pen. OMR Answer Sheet without marking series/double series marking shall not be evaluated.

Example :

Supposing the following question is asked :-

The Capital of Meghalaya is-

- A. Guwahati
- B. Kohima
- C. Shillong
- D. Delhi

You will have four alternatives in the Answer Sheet for your response corresponding to each question of the Question Booklet as below :-

(A) (B) (C) (D)

In the above illustration, if your chosen response is alternative C i.e. Shillong, then the same should be marked on the Answer Sheet by blackening the relevant circle with a Black Ball Point Pen only as below :-

(A) (B) (●) (D)

WHICH IS THE ONLY CORRECT METHOD OF ANSWERING

5. Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any one question.
6. There will NOT be any negative marking for wrong answers.
7. The Answer Sheet must be handed over to the invigilator before you leave the Examination Hall.
8. No rough work is to be done on the Answer Sheet. Space for rough work has been provided in the question booklet.

PAPER-III
PART-A : Agricultural Entomology

Each question carries two marks :

1. *Trichogramma japonicum* is used mainly as bio-control agent of which insect in rice ?
a) Rice caseworm b) Rice leaf-folder
c) Pink stem borer d) BPH
2. Which group of insects are more difficult to control by insecticide ?
a) Scale insects b) Aphid
c) Thrips d) Larvae
3. Pheromone is available against which insect?
a) Cabbage moth b) Bollworm
c) Apple fruit moth d) Citrus cutworm
4. Insecticide act was passed in the year ?
a) 1966 b) 1967
c) 1968 d) 1969
5. Plant aphids are more destructive in _____
a) Tropical region
b) Temperate region
c) Region of high rainfall
d) All of the above
6. Lady bird beetle is a predator of _____
a) Aphid b) Scale insects
c) Mites d) All of the above
7. Which is not a rodent ?
a) Gerbils b) Pikas
c) Hamsters d) Possums
8. Which is not a hemimetabolous pest ?
a) Whitefly b) Leaf hoppers
c) Aphids d) Lemon butterfly
9. Scientific name of whorl maggot is ?
a) *Pelopidas mathias* b) *Spodoptera* spp
c) *Leptocorisa acuta* d) *Hydrellia sasakii*
10. Pest of maize belonging to family Crambidae?
a) *Chilopartellus*
b) *Sesamia inferens*
c) *Tanyrhecus indicus*
d) *Mythimna separate*
11. Potate is a _____ insecticide.
a) Systemic
b) Contact plus systemic
c) Contact
d) Contact plus stomach
12. Piercing and sucking type of mouth parts are found in ?
a) Grasshopper b) House fly
c) Aphids d) Beetles
13. Pneumatic sprayers have been used in pest control for many years. A Pneumatic sprayer _____
a) Operates using wind or air
b) Contains poisonous pesticide
c) Is a knapsack type sprayer
d) Operates automatically
14. Severe incidence of red hairy caterpillar occurs under which one of the following sets of conditions ?
a) High temperature and high soil moisture
b) High temperature and low soil moisture
c) Low temperature and high soil moisture
d) Low temperature and low soil moisture
15. Stem borer and pink borer can be controlled by ?
a) Thimet b) Dithane Z-78
c) Aldrin d) All of the above
16. The best method of control of stored grain pests is ?
a) Fumigation
b) Systemic insecticide
c) Proper drying and storage
d) Biological agents
17. The chief excretory organ in insects is ?
a) Malpighian tubules b) Green gland
c) Cuticle d) Fat body
18. _____ coined the term 'Pest Management'.
a) Geier b) Bartlett
c) Dr. Perry Akhison d) Dr. Ray F. Smith

19. The degree to which a chemical is poisonous to the insects is its _____.

- a) Kill value
- b) Lethal dose
- c) Hazard rating
- d) Toxicity

20. The type of damage that Gundhi bug causes to the rice plant is ?

- a) Attack the base of the growing point and produces long, tubular silvery shoots
- b) Scrape the chlorophyll, affected the leaves and turn whitish
- c) Suck the milky sap of tender grains
- d) Bore into the stem and pupate within

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PART-B
Plant Pathology

Each question carries two marks :

21. The citrus canker lesions are characterized by the over development of ?

- a) Parenchymatous tissues ✓
- b) Epidermal tissues
- c) Ectodermal tissues
- d) Endodermal tissues

22. Late blight of potato was first introduced in India in which place ?

- a) Ooty
- b) Aravali range
- c) Nilgiri hills
- d) Vindhya

23. Tuber blight of potato is caused by ?

- a) *Phytophthora nicotianae*
- b) *P. crythroseptica*
- c) *P. drescheleri*
- d) *P. infestans*

24. Whiptail of cauliflower is due to deficiency of ?

- a) Molybdenum
- b) Zinc
- c) Iron
- d) Boron

25. Target spot develops in leaf in which disease ?

- a) Tomato early blight
- b) Rice blight
- c) Late blight potato
- d) All of the above

26. Rice blast is caused by ?

- a) Bacteria
- b) Fungus
- c) Virus
- d) Mycoplasma

27. The casual organism of leaf smut of rice is?

- a) *Entyloma oryzae*
- b) *Tilletia barclayana*
- c) *Xanthomonas oryzae*
- d) *Tilletia oryzae*

28. Occurrence of endemic pest is defined as _____ ?

- a) Occurs most frequently
- b) Occurs in few localities
- c) Occurs in same area year after year
- d) Occurs in an area in severe form

29. Foot rot disease in rice is due to ?

- a) *Gibberella fujikuroi*
- b) *Rhizoctonia solani*
- c) *Phytophthora infestans*
- d) *Fusarium oxysporium*

30. Father of epidemiology is _____ ?

- a) T. O. Diener
- b) E. J. Butler
- c) K.C. Mehta
- d) Vanderlank

31. Of 35% annual crop loss _____ % crop loss is due to fungi, bacteria, virus ?

- a) 10%
- b) 11%
- c) 14%
- d) 12%

32. Black heart of potato is a _____

- a) Fungal disease
- b) Viral disease
- c) Bacterial disease
- d) Physiological disorder

33. Die-back of citrus occurs due to the deficiency of _____

- a) Cu
- b) Zn
- c) Mn
- d) Fe

34. Leaf curl of chilli is due to _____

- a) Weevil
- b) Khapra beetle
- c) White fly
- d) Gram caterpillar

35. Downey mildew of maize is due to _____.

- a) Viral
- b) Fungal
- c) Bacterial
- d) Physiological disorder

36. Dead Heart and White Ear disease is related to ?

- a) Wheat
- b) Rice
- c) Barley
- d) Jowar

37. Wilt disease is a ?

- a) Seed borne disease
- b) Air borne disease
- c) Soil borne disease
- d) None of the above

38. Sooty or Charcoal like powdery mass usually appearing on floral organ particularly the ovary is ?

- a) Smut
- b) Powdery mildew

c) Blight

d) Black rot

39. False root-knot nematode is ?

a) *Nacobbus* sp

b) *Meloidogyne* sp

c) *Hirschmaniellasp*

d) *Criconemasp*

40. The casual organism of soft rot in ginger is?

a) *Phyllosticta singiberi*

b) *Pythium aphanidermatum*

c) *Taphrina maculans*

d) *Pellicularia filamentosa*

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PART-C
Agricultural Meteorology

Each question carries two marks :

41. Air temperature is being recorded from thermometer placed in the Stevenson's screen at _____ meters from the ground level ?

- a) 1.0 meters
- b) 1.5 meters
- c) 2.0 meters
- d) 2.5 meters

c) N₂

d) CO₂

50. Ozone layer is found in ?

- a) Thermosphere
- b) Mesosphere
- c) Stratosphere
- d) Lithosphere

42. Nitrogen content of atmosphere surrounding the earth is ?

- a) 60%
- b) 70%
- c) 45%
- d) 80%

43. Photoperiodism affects the flowering of plants, a tomato plant is a ?

- a) Short day plant
- b) Day neutral plant
- c) Long day plant
- d) None of the above

44. World Meteorological Day is celebrated on?

- a) 23rd March
- b) 21st June
- c) 22nd September
- d) 21st December

45. Short range forecast is a weather forecast extending for a period of _____ in advance.

- a) 48 hrs
- b) 3-7 days
- c) 7-15 days
- d) >15 days

46. The climate of a geographically restricted area, such as that of a forest, upland area, or valley which is not necessarily representative of a region as a whole is called ?

- a) Mini climate
- b) Meso climate
- c) Micro climate
- d) Macro climate

47. Which one of the following is not a greenhouse gas ?

- a) Methane
- b) Hydrogen
- c) Nitrous Oxide
- d) Ozone

48. What is Carbon sequestration ?

- a) Removal of CO₂ from the atmosphere
- b) Storage of CO₂ by depositing in reservoir
- c) Removal of CO₂ from the atmosphere and storing it by deposition in reservoir
- d) None of the above

49. Which gas of the atmosphere holds up ultra violet rays ?

- a) H
- b) O₂

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