

Paper – Agriculture

PART – I : OBJECTIVE / MCQ

Each question carries 2 marks:

(75X2= 150 Marks)

PAPER - I

1. (AxB)XC is
 - a. Test cross
 - b. Double cross
 - c. Three way cross
 - d. Top cross
2. the physical methods used for controlling nematodes.
 - a. Heat treatment
 - b. Radiation
 - c. Osmotic pressure
 - d. All of the above
3. 'Ascent of cell sap' from root to the tree top is exercised by
 - a. Cambium cell
 - b. Xylem
 - c. Phloem
 - d. Cuticle
4. 'Queen' is the variety of
 - a. Sapota
 - b. Guava
 - c. Pine apple
 - d. Mango
5. Cause of deterioration of variety is
 - a. Mendelian variation
 - b. Mutation
 - c. Mechanical mixture
 - d. All of the above
6. Conversion of nitrate nitrogen to molecular nitrogen is known as
 - a. Denitrification
 - b. Nitrification
 - c. Nitrogen release
 - d. None of the above

7. Cytogenetic male sterility is utilized in
 - a. Pure line selection
 - b. Hybrid seed production
 - c. Back cross method
 - d. Progeny test
8. Edible banana fruit is seedless because of
 - a. Embryo abortion
 - b. Absence of stigma
 - c. Vegetative parthenocarpy
 - d. Stimulated parthenocarpy
9. Genetically the purest seed is
 - a. Breeder's seed
 - b. Registered seed
 - c. Certified seed
 - d. Nucleus seed
10. Mendel's laws of inheritance operate during
 - a. Mitosis
 - b. Meiosis
 - c. Gametogenesis
 - d. Pollination
11. Pure line may be defined as the progeny of
 - a. Any two individuals
 - b. A homozygous individual
 - c. A self fertilized individual
 - d. A homozygous and self-fertilized individual
12. Rock phosphate can be safely used in
 - a. Lateritic soil
 - b. Alkali soil
 - c. Calcareous soil
 - d. Acid soil
13. Splitting of pods is caused by
 - a. Hydrotropic movement
 - b. Hydration movement
 - c. Phototropic movement
 - d. Photoperiodic movement
14. Solubility of rock phosphate can be improved by
 - a. Nitrosomonas
 - b. Nitrobacter

- c. Azotobacter
 - d. Bacillus polymexa
15. The electron transport carriers are located in the
- a. Mitochondrial membrane
 - b. Granum membrane
 - c. Stroma
 - d. Thylakoid
16. The initial acceptor of the carbon dioxide molecule is
- a. Ribulosedinucleotide
 - b. Ribulose1,5 biphosphate
 - c. Formaldehyde
 - d. Phosphoglycerate
17. Most difficult problem in the production of seed potato is the production of
- a. Good variety
 - b. Virus free seed
 - c. Cold resistant variety
 - d. Fungi resistance seed
18. The photolysis of water takes place in the
- a. Thylakoid
 - b. Granum
 - c. Stromata
 - d. None of the above
19. The pathogen of loose smut of wheat is
- a. Soil borne
 - b. Internally seed borne
 - c. Both a and b
 - d. Not seed borne
20. Which of the following is controlled by gibberellic acid?
- a. Fruit development
 - b. Ripening of fruits
 - c. Vegetative growth
 - d. Prevention of the loss of flowers
21. Which of the following is ethylene absorbent?
- a. KMnO_4
 - b. KNO_2
 - c. K_2SO_4
 - d. KCl

22. When a gene hides the effect of a second gene when both are present, it is called as
- Modifying action
 - Epistasis
 - Inhibiting
 - Additive dominance
23. When a segment of a chromosome is missing, the condition is known as
- Translocation
 - Inversion
 - Deletion
 - Transportation
24. 'V' notch is a
- Parshall flume
 - Orifice set
 - Weir
 - Submerged orifice
25. Arrowing refers to
- Flower primordial initiation in maize
 - Flowering of cotton
 - Flowering of maize
 - Flowering of sugarcane
26. A weed that spreads Asthma is
- Colotropis
 - Parthenium
 - Cynodon
 - Cyperus
27. Application of nitrogen in cowpea at the time of planting is known as
- Basal dose
 - Synergistic dose
 - Starter dose
 - Additional dose
28. Black soils are deficient in
- Potash
 - Calcium

- c. Nitrogen
 - d. Lime
29. Broadcast potassium is than banded.
- a. Highly efficient
 - b. As efficient as
 - c. Less efficient
 - d. None of these
30. Dwarfing gene in rice is
- a. Norin- 10
 - b. Branchytic-2
 - c. Dee-gee-woo-gen
 - d. Opaque-21
31. Embryo seed dormancy is mainly found in
- a. Tropical climate seeds
 - b. Temperate climate seeds
 - c. Sub-tropical seeds
 - d. None of these
32. Field water use efficiency is calculated by
- a. $WUE = Y/WR$
 - b. $WUE = Y/ET$
 - c. $WUE = Y/CU$
 - d. None of these
33. High yielding dwarf varieties of wheat was developed by
- a. Dr. B. P. Pal
 - b. Dr. N. E. Borlaug
 - c. Dr. E. W. Burton
 - d. Dr. M. S. Swaminathan
34. If there is 500 kg seed then how much samples should be taken for testing?
- a. 8
 - b. 3
 - c. 5
 - d. 10
35. IFFCO is a
- a. Farmers club organization
 - b. Private Fertilizer Company
 - c. Farmer's Fertilizer Co-operative
 - d. Farmer's Core Society

36. In a predominantly biological system, mineralization of phosphorus from organic matter of crop residues is dependent on soil activity.
- Chemical
 - Physical
 - Physio-chemical
 - Biological
37. Maize protein is deficient in
- Betadine
 - Tryptophane and lysine
 - Lysine
 - Tryptophane
38. Name a cereal with maximum protein content
- Basmati Rice
 - Maize
 - Sorghum
 - Whole wheat
39. Removal of a uniform thin layer of soil by the action of water is referred as
- Splash erosion
 - Sheet erosion
 - Rill erosion
 - Gully erosion
40. Seed plot technique of potato is used to produce
- Insect free seeds
 - Nematode free seeds
 - Virus free seeds
 - Large size tubers
41. Sesamum belongs to the family
- Leguminosae
 - Papilionaceae
 - Pedaliaceae
 - Chenopodeaceae
42. Maize- potato- wheat- green gram is an example of
- Tetra cropping
 - Multistoried cropping

- c. Relay cropping
 - d. Inter cropping
43. The best green manuring crop is
- a. Napier
 - b. Sunhemp
 - c. Dhaincha
 - d. None of these
44. The first irrigation in wheat is normally recommended at
- a. Tillering stage
 - b. Crown root initiation stage
 - c. Flowering stage
 - d. Seeding stage
45. The major part of nitrogen uptake by the maize is over by the
- a. Knee high stage
 - b. Tasselling stage
 - c. Silking stage
 - d. Grain maturing stage
46. The most critical stage for irrigation in potato is
- a. Root formation
 - b. Tuberization
 - c. 25% tuber formation
 - d. All of these
47. Wheat protein is called as
- a. Lutein
 - b. Gluten
 - c. Dhurin
 - d. Ricin
48. Which of the mulch is best and cheap to minimize wind erosion?
- a. Paper mulch
 - b. Straw mulch
 - c. Stubble mulch
 - d. Saw dust mulch
49. Banana suckers arise from
- a. Underground rhizomes
 - b. Underground corms
 - c. Stolons
 - d. Pseudostems
50. Browning of cauliflower is caused by the deficiency of

- a. Potassium
 - b. Manganese
 - c. Iron
 - d. Boron
51. Kinnow is a cross between
- a. King and Willow leaf
 - b. Mandarin and Sweet orange
 - c. Willow leaf and Wilking
 - d. King and Queen
52. Spacing between fruit plant is determined on the basis of
- a. Choice of planer
 - b. Spreading behavior of plants
 - c. Availability of land
 - d. All of these
53. Which one of the following fruits is cured in smoke for ripening?
- a. Mango
 - b. Guava
 - c. Jackfruit
 - d. Banana
54. Which one of the following is not a self incompatible fruit crop?
- a. Pear
 - b. Mango
 - c. Apple
 - d. Guava
55. French merogold is
- a. Diploid
 - b. Tetraploid
 - c. Triploid
 - d. Aneuploid
56. First 15 cm layer of land which is ploughed for cultivation of crop is called
- a. Furrow slice
 - b. Rhizosphere soil
 - c. Soil horizon
 - d. Soil profile
57. Dominant organisms found in a compost pit are
- a. Thermophilic
 - b. Psychrophilic

- c. Mesophilic
 - d. All of these
58. The direct exchange of ions between the roots and clay colloids called
- a. Soil solution theory
 - b. Contact exchange theory
 - c. Diffusion theory
 - d. None of the above
59. Phosphorus is essential for
- a. Cell division
 - b. Development of meristematic tissues
 - c. Both of these
 - d. None of these
60. Hybrid seeds can be produced through open pollination with the use of
- a. Inbreds
 - b. Clones
 - c. Pure lines
 - d. Male fertile lines
61. In C_4 pathway CO_2 combines with
- a. Ribulose monophosphate
 - b. Phosphoglyceric acid
 - c. Ribulosediphosphate
 - d. Phosphoenol pyruvate
62. Wilt disease takes place in
- a. Guava
 - b. Papaya
 - c. Mango
 - d. Ber
63. Diphenyl amine is an indicator which is used in determination of
- a. Organic carbon
 - b. Phosphorus
 - c. Potassium
 - d. Boron
64. Humus colloids are composed basically of
- a. Carbon
 - b. NPK
 - c. Ozone
 - d. Helium

65. The first passage through which nutrients enters into the leaves
- Intercuticular passage
 - Mesophyll tunnel
 - Cell wall plasmic membrane
 - None of the above
66. In RNA, nitrogen bases are same as in DNA except
- Uracil instead of Thymine
 - Cytosin instead of Thymine
 - Adenine instead of Guanine
 - Thymine instead of Adenine
67. Which is citrus nematode?
- Hoplolaimus
 - Pratylenchus
 - Rotylenchulus
 - Tylenchus
68. Taphrina causes the disease
- Chillies leaf curl
 - Tomato leaf curl
 - Peach leaf curl
 - Brinjal leaf curl
69. Breeder seed is the progeny of
- Foundation seed
 - Registered seed
 - Nucleus seed
 - Certified seed
70. The number of functional plant nutrients are
- 26
 - 20
 - 16
 - 10
71. The fruit of linseed is known as
- Pod
 - Canum
 - Seedball
 - Knob
72. If a dihybrid is test crossed, the phenotypic ratio of progeny will be