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# TNPSC ACF

**Previous Year Paper  
(Agriculture) 2018**



**ACFAG**

Register No.

**2018**

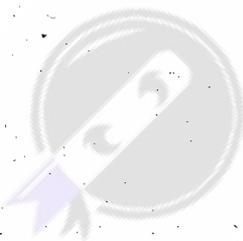
**AGRICULTURE**

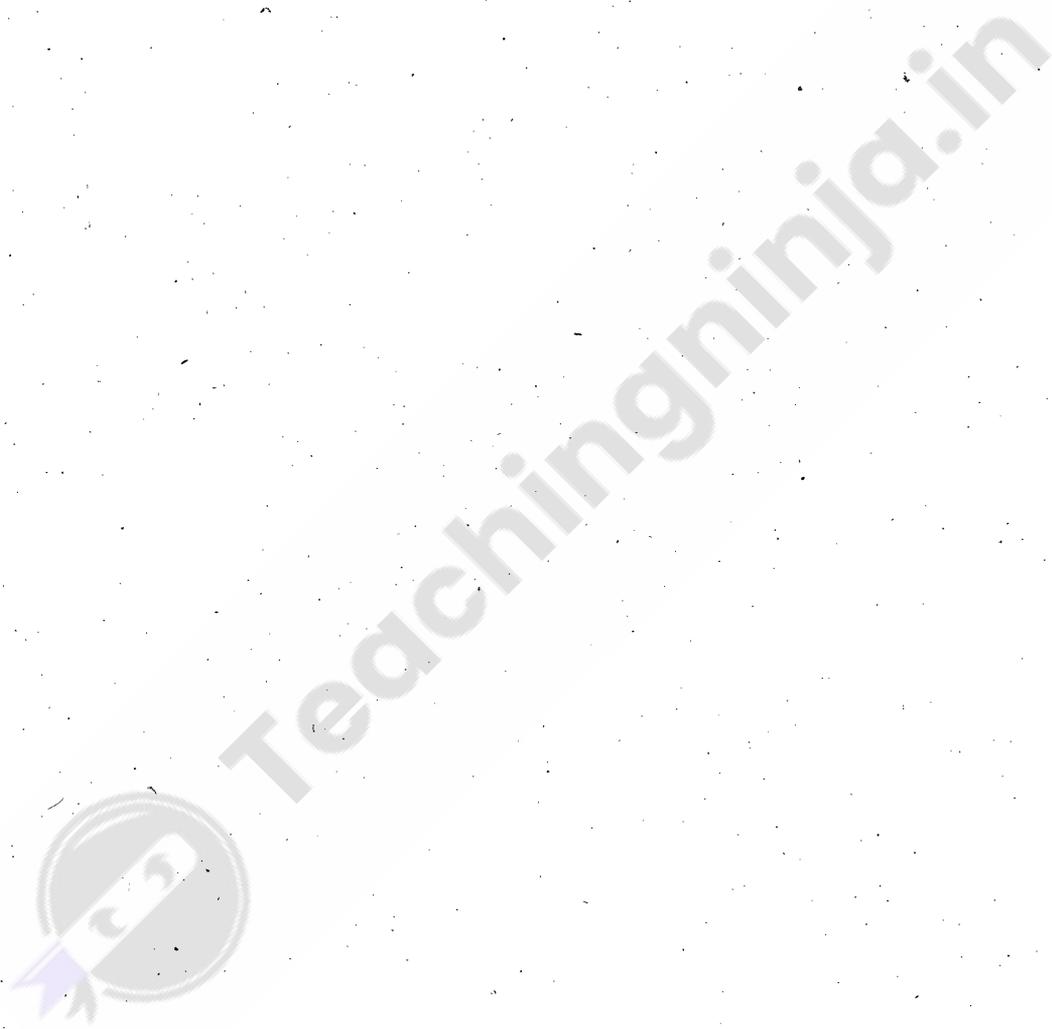
Duration : 3 Hours

Max. Marks : 300

*General Instructions to the Applicants :*

- i) This Question Paper is descriptive type in Degree Standard.
- ii) There is no reservation of marks for neatness of execution and correctness of spelling in respect of this paper.





# AGRICULTURE

## PART — A

**Note :** i) Answer not exceeding 50 words each.

ii) Each question carries three marks.

iii) Answer any thirty questions only out of thirty five Questions.

(30 × 3 = 90)

1. Write short note on regional imbalances in food grain production in India.
2. List out the causes for subdivision and fragmentation of lands in India.
3. List out the important features of Panchayati Raj System.
4. Brief note on Command Area Development Programme (CADP).
5. Differentiate primary tillage from secondary tillage.
6. Write a note on “light saturation intensity for photosynthesis”.
7. Explain the negative effects of saline conditions of soil on agriculture.
8. Write the contingency crops planning for delayed on set of monsoon under rainfed condition of Southern Region (Kovilpatti).
9. Mention the objectives of FCI.

10. Define 'Marketable Surplus' and list out the factors affect it.
11. List out the criteria for selecting a spray nozzle.
12. Define chemical aspects of soil fertility.
13. What are acid soils? Mention one ameliorative measure.
14. What are saline-alkali soils?
15. What is meant by soil conservation?
16. Write the criteria of essentiality of nutrients prepared by Arnon and Stout (1939).
17. What is meant by salinization?
18. Expand IPP and write on Biopatent.
19. Define Endosperm culture.
20. What is meant by Hairy Root culture?
21. What is cryopreservation?
22. What are the principles of Plant Breeding?
23. What are the chief objectives of WTO?

24. Define different types of Marketing Efficiency.
25. Discuss how “diversification of cropping” would deal with uncertainty in agricultural production.
26. Discuss the advantages of warehouses for the farmers.
27. Write short notes on “National Commission on Agriculture”.
28. Briefly explain the ‘Dead heart’ symptom in rice.
29. What are the control measures to be adopted for controlling Leaf Roller in rice?
30. What are the symptoms and control measures for downy mildew disease in sorghum?
31. Briefly explain ‘Tikka Disease’ in groundnut.
32. What is seed treatment? List out the benefits of seed treatment.
33. Define certified seed. What is the colour of the tag used for certified seeds?
34. What is truthfully labelled seed (or) labelled seed? Which colour of the tag is used for truthfully labelled seed?
35. Define seed, off type and roguing.

## PART — B

- Note :**
- i) Answer not exceeding 100 words each.
  - ii) Each question carries eight marks.
  - iii) Answer any fifteen questions only out of eighteen Questions.

(15 × 8 = 120)

36. Discuss on Protoplast fusion.
37. Discuss on Embryo and Ovule culture.
38. Discuss the capillary movement of soil water.
39. What is meant by soil reclamation? Discuss in brief the reclamation of problem soils.
40. Discuss on the importance of soil texture.
41. Discuss any two methods of evaluating soil structure.
42. Discuss in brief about the two price policies.
43. Discuss the salient contributions of Agriculture to Industries.

44. Discuss different types of herbicide formulations.
45. Discuss in brief about the control of water hyacinth.
46. How seeds are mechanically damaged? Explain the different methods of assess of mechanical damage in seeds.
47. Explain the procedure for extension of the validity period of certified seed.
48. Define treatment of message and explain the three categories of bases useful for varying treatment.
49. Define Karl Marx theory of social change and explain any three factors of social change.
50. Discuss the salient features of New Agricultural Policy in India.
51. Discuss different methods of herbicide application.
52. Discuss the advantages of co-operative Joint Farming.
53. Discuss on stages of Micro propagation.

## PART — C

- Note :**
- i) Answer not exceeding 200 words each.
  - ii) Each question carries fifteen marks.
  - iii) Answer any six questions only out of nine questions.

(6 × 15 = 90)

54. What you mean by green revolution? Describe the achievements made with green revolution and factors contributed for green revolution.
55. Explain the role of World Trade Organization (WTO) and its implications on Indian agriculture.
56. Explain the assessment of land use and productivity in multiple cropping and cropping system management.
57. How will you increase the Water Use Efficiency in Unirrigated Areas?
58. Discuss the single cell culture and its importance.
59. Define seed coating. Explain the film coating in detail and narrate the advantage of seed coating.
60. Discuss the importance of Biological control of pest and diseases in crop production and enlist the biological control measures adopted for pulses production.
61. Discuss briefly the advantages and disadvantages of Large-scale farming.
62. Describe elaborately the quality of irrigation water and common problems of poor quality water usage in crop production.