Indian Forest Service (Main) Exam, 2021

ZCVB-U-AGRC

AGRICULTURE Paper – I

Time Allowed: Three Hours

Maximum Marks: 200

Question Paper Specific Instructions

Please read each of the following instructions carefully before attempting questions:

There are EIGHT questions in all, out of which FIVE are to be attempted.

Questions no. 1 and 5 are **compulsory**. Out of the remaining **SIX** questions, **THREE** are to be attempted selecting at least **ONE** question from each of the two Sections A and B.

Attempts of questions shall be counted in sequential order. Unless struck off, attempt of a question shall be counted even if attempted partly. Any page or portion of the page left blank in the Question-cum-Answer Booklet must be clearly struck off.

All questions carry equal marks. The number of marks carried by a question/part is indicated against it.

Answers must be written in ENGLISH only.

SECTION A

Q1.	(a)	Establish the relationship between Nature, Indian culture and Indian agriculture.	8
	(b)	List down the principles of ecology.	8
	(c)	Enlist different groups of soils found in India and discuss any one in detail.	8
	(d)	Explain various concepts of agroforestry and discuss their benefits towards sustainable development.	8
	(e)	Describe technological options for stabilizing agricultural production in rainfed areas.	8
Q2.	(a)	Environmental pollution is hazardous to crops. Describe with examples.	15
	(b)	Describe the role of organic matter in maintaining soil productivity.	15
	(c)	Enlist the problems of dryland agriculture and describe soil constraints in detail.	10
Q3.	(a)	Enlist the methods of weed control and discuss the physical control of weeds in detail.	15
	(b)	Discuss Integrated Farming System (IFS) with suitable examples. How can IFS improve livelihoods of small and marginal farmers?	15
	(c)	Enlist the factors for conserving moisture and improving the productivity of soil and describe the vegetative cover factor in detail.	10
Q4.	(a)	What is Land Equivalent Ratio (LER) ? Give advantages and disadvantages of LER.	15
	(b)	Discuss the factors affecting phosphate fixation in soil.	15
	(c)	Write a short note on contour bunding to prevent soil erosion.	10

SECTION B

Q5.	(a)	Describe three distinct phases of evaluation of extension programmes and the need for extension evaluation.	8
	(b)	Enlist and briefly explain the roles to be played by Agricultural Extension professionals to ensure quality extension services.	8
	(c)	Enumerate the ways and means of how farm planning helps the cultivators to bring efficiency in farming.	8
	(d)	Enlist and explain various dimensions of market.	8
	(e)	Describe the types of sprinkler irrigation systems.	8
Q6.	(a)	Classify and briefly explain different types of trainings offered according to the stage of career of extension professionals.	15
	(b)	Write the causes of waterlogging. Describe in brief about system of surface drainage.	15
	(c)	Enlist and explain advantages and problems of farm budgeting.	10
Q7.	(a)	Describe the criteria for scheduling irrigation in detail.	15
	(b)	Describe the motives behind Cooperation. Explain three-tier structure of Cooperative Credit Society.	15
	(c)	Enumerate key functions of State Agricultural Management and Extension Training Institute (SAMETI).	10
Q8.	(a)	Describe the implications of strong linkages between ATMA and KVK in strengthening extension services.	15
	(b)	Enlist different hazards associated with irrigation water quality and discuss the management practices for efficient use of saline water for irrigation.	15
	(c)	Enumerate and explain factors affecting cost of marketing of agricultural produce.	10

