CS (MAIN) EXAM: 2018

Agriculture (Paper I)

In the event of any discrepancy, please refer to the previous-year question papers available at https://www.freshersnow.com/previous-year-question-papers/
खण्ड 'A'  SECTION 'A'

1. वित्तिलिखित प्रत्येक का लघुत्तम 150 शब्दों में वर्णन कीजिए:
Describe the following in about 150 words each:

1.(a) भूमिपूर्ण तापन (स्नोबल वार्मिंग) एवं इसका फसल उत्पादकता पर प्रभाव
Global warming and its impact on crop productivity

1.(b) शुष्क एवं बाराती कृषि हेतु आवश्यक योजना
Contingency planning in dryland/rainfed agriculture

1.(c) खाद्य सुरक्षा के राष्ट्रीय लक्ष्य के परिपूर्ण हेतु संकर व उद्ध सुसाधित प्रजातियों की भूमिका
Role of hybrids/high yielding varieties to meet national goal of food security

1.(d) जल उपयोग दक्षता बढ़ाने हेतु साही जल संचय सिंचाई पद्धतियाँ
Precise water saving irrigation practices to enhance water use efficiency

1.(e) भारत में कृषि विकास के सुधार के लिए पहल
 Initiatives for improving agricultural marketing in India

2.(a) विशिष्ट परिस्थितिकी तंत्र के अन्तर्गत जल संचयन के प्रकार एवं महत्व पर चर्चा कीजिए।
Discuss the importance and method of water harvesting under different agro-ecosystems.

2.(b) मृदा जैव पदार्थ मात्रा को प्रभावित करने वाले कारकों के बारे में समझायें। मृदा जैव पदार्थ बढ़ाने हेतु तकनीकों का वर्णन कीजिए।
Explain the factors affecting soil organic matter content. Describe the techniques to increase soil organic matter.

2.(c) कृषि विकास हेतु तकनीकी विस्तार में मैर सरकारी संगठनों एवं स्वयं सहायता समूहों की भूमिका क्या है?
What is role of Non-Government Organizations (NGOs) and Self Help Groups in technology dissemination for agricultural development?

3.(a) धान की सीधी एवं बुराई एवं एस. आर. आई. पद्धति की प्रथाओं का तुलनात्मक वर्णन कीजिए।
Describe the comparative package of practices for direct seeded aerobic rice and S.R.I.

3.(b) कृषि विज्ञान केन्द्रों की जिम्मेदारियाँ क्या हैं? कृषि विज्ञान केन्द्र कृषि तकनीकों के विस्तार एवं किसानों के सामाजिक-आर्थिक उद्यानों में किस तरह से सहायक है?
What are the mandates of Krishi Vigyan Kendras? How KVKs are helping in dissemination of agricultural technologies and upliftment of socio-economic conditions of farmers?

3.(c) भारतीय कृषि के परिपेक्ष में सूदूर संकेतन (रिमोट सेंसिंग) की उपयोगिता के बारे में चर्चा कीजिए।
Discuss the utility of Remote Sensing in context of Indian Agriculture.
4.(a) What changes occur in rice puddled soil? Describe the fate of nitrogen and practices for enhancing nitrogen use efficiency in such soils.  

4.(b) Describe the types and benefits of non-conventional forestry systems. State the characteristics of suitable tree species for non-conventional forestry.

4.(c) What is the phenomenon of herbicide resistance in weeds? Discuss the factors responsible for development of herbicide resistance.

5. Describe the following in about 150 words each:

5.(a) Innovations in biological weed management

5.(b) Role of forestry in carbon sequestration

5.(c) Problems and reclamation of saline and sodic soils

5.(d) Use of Information and Communication Technology (ICTs) in agricultural extension

5.(e) Role of organic farming for sustainability and profitability

6.(a) What are the different sources of soil and water pollutions? Describe the impact of soil and water pollution on crop productivity and environment.

6.(b) Discuss the kinds of bio-fertilizers and their application methods. Give the reasons for their limited acceptance among the Indian farmers.
6. (c) Discuss the crop insurance and its implications. Narrate the government initiatives taken for crop insurance.

7. (a) Explain the principles of conservation agriculture. Describe the practices and impact of conservation agriculture in Indian scenario.

7. (b) Listout the approaches for scheduling of irrigation.

7. (c) It is proposed to test the relative efficiency of scheduling irrigation to groundnut at 25%, 50% and 75% depletion of available soil moisture. Field capacity of soil in the effective root zone depth of 60 cm is 16% with a permanent wilting point of 6%. At what respective soil moisture contents, irrigations are to be scheduled with three irrigations?

7. (d) Elaborate the strategies for doubling the farmers’ income by 2022.

8. (a) What is status of oilseed production and constraints of their production in India? Describe the strategies for attaining self-sufficiency in oilseed production.

8. (b) What are the characteristics of a good farm plan? What techniques will you adopt to solve the farm management problems?

8. (c) What is Front Line Demonstration (FLD)? How does it help in boosting the production and productivity of crops?

8. (d) What are the advances in chemical weed management?