

NALANDA OPEN UNIVERSITY

M.A./M.Sc. (Environmental Science)

PART-I, PAPER-VI

(Agriculture & Forestry)

Annual Examination, 2014

Time : 3 Hours

Full Marks : 80

Answer Five Questions in all, selecting at least Two Questions from each Group.

All questions carry equal marks.

प्रत्येक खंड से कम से कम दो प्रश्नों का चयन करते हुए कुल पाँच प्रश्नों का उत्तर दीजिए । सभी प्रश्नों के अंक समान हैं ।

Group-'A'

1. What is the meaning of Agriculture and why is it essential for India ?
कृषि का अर्थ क्या है तथा भारत वर्ष के लिए यह क्यों आवश्यक है ?
2. What do you mean by sustainable agriculture ? Discuss its various ingredients.
टिकाऊ कृषि से आपका क्या तात्पर्य है ? इसके विभिन्न संघटकों की विवेचना कीजिए ।
3. What are the important components of crop production ? Which one is the most important ?
फसल उत्पादन के महत्वपूर्ण अंगीभूत (अंग) हैं ? इनमें से कौन सर्वाधिक महत्वपूर्ण हैं ?
4. What do you mean by micro nutrients ? Discuss their importance in Plants.
सूक्ष्म पोषकतत्वों से आप क्या समझते हैं ? पौधों में इनके महत्व की विवेचना कीजिए ।
5. Describe the utility of plant bio-technology in plant breeding.
जैव प्रौद्योगिकी की पादप प्रजनन में उपयोगिता का वर्णन कीजिए ।
6. What is integrated pest management ? Discuss similarities and dissimilarities between pest control and integrated pest control ?
समेकित कीट प्रबन्धन क्या है ? कीट प्रबन्धन एवं समेकित कीट प्रबन्धन की समानताओं एवं असमानताओं की विवेचना कीजिए ।

Group-'B'

7. Define forest ? Classify it on the basis of different bases.
वन को परिभाषित कीजिए तथा विभिन्न आधारों पर इसको वर्गीकृत कीजिए ।
8. What is global warming ? Explain the role of forest in controlling the global warming.
भूमंडलीय तपन क्या है ? भूमंडलीय तपन को नियंत्रित करने में वनों की भूमिका की व्याख्या कीजिए ।
9. What do you mean by Forest Management ? Discuss the salient features of Forest Management.
वन प्रबन्धन से आप क्या समझते हैं ? वन प्रबन्धन की मुख्य विशेषताओं की चर्चा कीजिए ।
10. Write short notes on any **Two** of the following :—
निम्नांकित में से किन्हीं **दो** पर टिप्पणियाँ लिखिए :—
(i) Agro-forestry (कृषि वानिकी)
(ii) Joint Forest Management (संयुक्त वन प्रबन्धन)
(iii) National Forest Policy, 1988 (राष्ट्रीय वन नीति, 1988)
(iv) Micro Climate (सूक्ष्म जलवायु)

• • •

M.A./M.Sc. Environmental Science, Part-I, की प्रायोगिक कक्षा एवं प्रायोगिक परीक्षा का कार्यक्रम कृपया पार पृष्ठ पर देखें ।

This question paper contains 3 printed pages]

HPAS (Main)—2012

FORESTRY

Paper II

Time : 3 Hours

Maximum Marks : 150

Note :— Attempt five questions. Question No. 1 is compulsory. Answer any four questions from the rest. All questions carry equal marks.

1. Differentiate between the following : 30
 - (a) Cross cut saw and Ripping saw
 - (b) Tension wood and Compression wood
 - (c) Alkaline process of pulping and Acidic process of pulping
 - (d) Fibre board and Particle board
 - (e) Retaining wall and Breast wall
 - (f) Wood burning and Wood distillation

2. Write short notes on any *three* of the following : 30
 - (a) Modern methods of forest fire control
 - (b) Timber slides

FEDERAL PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATION FOR RECRUITMENT TO POSTS
IN PBS-17, UNDER THE FEDERAL GOVERNMENT, 2002

FORESTRY

TIME ALLOWED: THREE HOURS

MAXIMUM MARKS: 100

NOTE: Attempt FIVE questions in all, including QUESTION NO. 8 which is **COMPULSORY**. All questions carry **EQUAL** marks. Avoid writing irrelevant material for the sake of bulk. Organize your write-up.

1. Suggest suitable strategic measures separately for (a) improving productivity, (b) enhancing economic viability cum profitability and (c) ensuring a secure future for man-made irrigated forests plantations of Pakistan.
2. (a) How can you prolong effective life of Mangla Lake? Discuss if raising of dam height is an appropriate lasting solution of the problem.
(b) Why raising of Range Livestock has not taken roots as an industry (as opposed to Poultry Industry) in Pothowar Tract which is considered a high potential range area?
3. Give a brief of the major recommendations of Forest Sector Master Plan of 1993. Will it lead Pakistan to a timber cum fuel surplus status by the year 2018? If not why?
4. (a) Briefly describe general characteristic features of various ecological factors influencing forest tree growth.
(b) What silvicultural measures do you propose for rejuvenating and extending Dry Temperate Forests of Balochistan?
5. How will you attract capital and intellect from private sector for conserving natural habitats for the promotion of wildlife in various regions of the country? In case you succeed in your efforts, in what specific ways will you like this newly generated capital and intellect to serve the cause of wildlife promotion in the country.
6. How will you estimate age, height, diameter at breast height and tree volume of a forest tree bole? What is meant by CAI and how will you estimate it for a single tree?
7. Write brief notes on any FIVE of the following:
(a) Succession (b) Completely Randomised Design
(c) Quality Class (d) Kas training
(e) Savannah (f) Causeway
(g) Fire line (h) Niche.

COMPULSORY QUESTION

8. Give only appropriate response in the answer book. Do not reproduce the question.