



FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION-2016  
FOR RECRUITMENT TO POSTS IN BS-17  
UNDER THE FEDERAL GOVERNMENT

Roll Number

**AGRICULTURE & FORESTRY**

<b>TIME ALLOWED: THREE HOURS</b>	<b>PART-I (MCQS)</b>	<b>MAXIMUM MARKS = 20</b>
<b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-II</b>	<b>MAXIMUM MARKS = 80</b>
<b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b>		
<b>(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.</b>		
<b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b>		
<b>(iv) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b>		
<b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b>		
<b>(vi) Extra attempt of any question or any part of the attempted question will not be considered.</b>		

**PART – II**  
**SECTION – A**

- Q. No. 2.** What is the role of live stock in national economy? How the government policies have over the years promoted this sector? What are the future prospects, Issues and Challenges? (20)
- Q. No. 3.** What is the cause of low productivity of cereal crops in Pakistan? How grain production could be made sustainable despite falling international prices? (20)
- Q. No. 4.** How understanding of genetics has helped in improving the productivity of crops and livestock? What are the prospects of genetic engineering in crop sector improvement? Discuss all pros and con? (20)
- Q. No. 5.** What do you understand by soil fertility? How soil fertility of arable lands can be maintained in good shape? How trees could be helpful in reclaiming water-logged and saline soils? (20)

**SECTION – B**

- Q. No. 6.** What is the significance of rangelands? How these rangelands resources in the country could effectively be utilized? What could possibly be done to improve these rangelands? (20)
- Q. No. 7.** What are the different grazing systems in vogue for small ruminants? How livestock wealth of the country has benefited from existing range and forest resources? (20)
- Q. No. 8.** Write short notes on any Four of the following: (20=5\*4) (20)
- Soil erosion
  - Judicious application of chemical fertilizers
  - Rain water harvesting
  - Grain storage and preservation
  - Agro forestry Vs Farm Forestry
  - Environmentally controlled poultry houses

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AGRICULTURE & FORESTRY**

Roll Number

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<b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b> <b>(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.</b> <b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b> <b>(iv) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b> <b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b> <b>(vi) Extra attempt of any question or any part of the attempted question will not be considered.</b>		

**PART-II**  
**SECTION-I**

- Q. No. 2.** Energy is driving force for agricultural output. Fossil fuels have aggravated the problem of pollution. What are alternate sources which can be manipulated to earn carbon credit and results in comparable level of farm output with already available sources? Discuss in the light of scientific advancement and economics. **(20)**
- Q. No. 3.** It is well established fact that irrigation water is the most critical factor in crop production and its efficient use is imperative in terms of water scarcity in semi-arid and arid zones of Pakistan. What technological advancements and up-gradations Government Institutions/Organizations at national and provincial levels have imparted in farm water management? Also elaborate environmental and economical issues related with these techniques of farm water management. **(20)**
- Q. No. 4.** What are prospects of biofuels crops in Pakistan? How much land and labour can be allotted for these crops to compromise with cereal and vegetable crops, economically and socially, keeping in view small holdings as some trading corporations have called for a worldwide ban on biofuels production, claiming that it contributes to food shortages? **(20)**
- Q. No. 5.** Rural demography in Pakistan is in transition phase towards mini-urbanization. How can this shift affect gender discrimination and parity in rural societies towards farm income, rural infrastructure and rural livelihood? Can present educational investment in rural areas improve the human resource involvement in the decision making and development? What are prospects of equitable and healthy rural communities in Pakistan? **(20)**

**SECTION-II**

- Q. No. 6.** Implications for the Sustainable Forest Management and Livelihoods Security rest on non-participatory roles of human population. How far present forest policies have prevented this role and how can policies be amended to prioritize people involvement in raising forest and plantations? Also elaborate preference of molecular biology over traditional forest breeding to commensurate purposes of ethanobotany, eco-tourism and carbon sequestration **(20)**
- Q. No. 7.** Discuss in detail constraints in new rangelands development in low and high altitudes in Pakistan. What are reasons for degradation of old rangelands? Also explain vision for the formulation of the range policy in the country. **(20)**
- Q. No. 8.** Write short notes on any **Four** of the following: **(5 marks each) (20)**
- (a) Silvopastoral planning
  - (b) Forest and climate change; preparedness and strategies in Pakistan
  - (c) Zero waste agriculture
  - (d) Economic and social impacts of land reforms on rural societies in Pakistan
  - (e) Improvement in animal husbandry practices
  - (f) Biosafety regulations in Pakistan

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FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION-2018  
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UNDER THE FEDERAL GOVERNMENT

Roll Number

**AGRICULTURE & FORESTRY**

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<b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-II</b>	<b>MAXIMUM MARKS = 80</b>
<b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b>		
<b>(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.</b>		
<b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b>		
<b>(iv) Candidate must write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b>		
<b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b>		
<b>(vi) Extra attempt of any question or any part of the attempted question will not be considered.</b>		

**PART – II**  
**SECTION – A**

- Q. No. 2.** Global warming is one of the major threats to food security. What priority measures, in short and long terms, do you suggest to mitigate the negative impacts and to use the benefits of climate change on different agricultural sectors? Give examples where necessary. (20)
- Q. No. 3.** Pakistan is suffering from serious edible oil deficit. Suggest a strategy integrating agricultural sciences and the Government to improve the present situation. (20)
- Q. No. 4.** Discuss bio-fortification. How is it helpful to provide basic human nutrition needs and to combat with malnutrition? Explain with examples. (20)
- Q. No. 5.** Biotechnology offers several opportunities for crop genetic improvement to meet the present and future challenges. Discuss with suitable examples. (20)

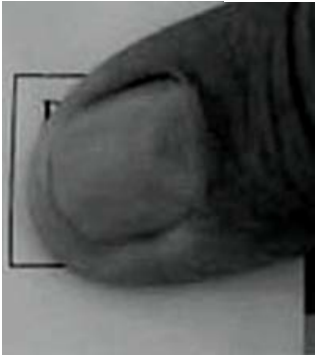
**SECTION – B**

- Q. No. 6.** Green fodder is an excellent and the cheapest source of nutrition to livestock in Pakistan, but it is not available in enough quantities. Many rangelands are present in Pakistan, how these could be used to improve the availability of the green fodder. (20)
- Q. No. 7.** Forest area in Pakistan is not according to the international standards. What public and government can do to improve forests area in Pakistan? Discuss in detail. (20)
- Q. No. 8.** Discuss the current situation and suggest prioritize strategies to improve forest based wildlife in Pakistan (20)

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FEDERAL PUBLIC SERVICE COMMISSION  
COMPETITIVE EXAMINATION-2019  
FOR RECRUITMENT TO POSTS IN BS-17  
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AGRICULTURE & FORESTRY

TIME ALLOWED: THREE HOURS

PART-I (MCQS)

MAXIMUM MARKS = 20

PART-I(MCQS): MAXIMUM 30 MINUTES

PART-II

MAXIMUM MARKS = 80

NOTE: (i) Part-II is to be attempted on the separate Answer Book.

(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.

(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.

(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.

(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.

(vi) Extra attempt of any question or any part of the question will not be considered.

PART - II  
SECTION - I

Q.No. 2. What is the role of natural resources (soil, water and solar energy) in crop production? Discuss innovative and technologically advanced approaches that could be used to improve efficiency of these resources. (20)

Q. No. 3. Why is it considered necessary to keep pest population down for a good crop production? Discuss integrated management and control practices for agricultural pests and diseases taking account of effectiveness, economic and environmental acceptability of these practices. (20)

Q. No. 4. What are the main issues of livestock, fisheries and cottage industries in Pakistan? Discuss options for improvement of these industries in the country taking account of market risks and government policies. (20)

Q. No. 5. Agricultural biotechnology is considered a short run approach to improve the productivity of traditional agriculture systems. What is the scope of this technology in Pakistan. Discuss in the light of possible benefits and risks related to embracing different types of biotechnology. (20)

SECTION II

Q. No. 6. What combination of forestry, agroforestry, grass cover, water collecting systems and storage facilities, drought resistant crops and water saving technologies are needed in dryland areas of Pakistan in order to increase food production and to what extent they can be cost effective? (20)

Q. No. 7. In view of the present status of forests in Pakistan, what would be the most practical and economical methods of wood utilization in general and in food based industry country in particular? (20)

Why is rangeland so important for agricultural economy of Pakistan? Explain the need ways and means for integrated management of grazing lands, crop and livestock production in Pakistan. (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2020**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**AGRICULTURE & FORESTRY**

Roll Number

<b>TIME ALLOWED: THREE HOURS</b>	<b>PART-I (MCQS)</b>	<b>MAXIMUM MARKS = 20</b>
<b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-II</b>	<b>MAXIMUM MARKS = 80</b>
<b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b>		
(ii) Attempt <b>ONLY FOUR</b> questions from <b>PART-II</b> by selecting <b>TWO</b> questions from <b>EACH SECTION. ALL</b> questions carry <b>EQUAL</b> marks.		
(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.		
(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.		
(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.		
(vi) Extra attempt of any question or any part of the question will not be considered.		

**PART-II**  
**SECTION-A**

- Q. No. 2.** What do you understand by soil fertility? How soil fertility of arable lands can be maintained in good shape? How trees could be helpful in reclaiming water-logged and saline soils? (20)
- Q. No. 3.** Discuss the role of integrated nutrient management to sustain soil quality and fertility. (20)
- Q. No. 4.** Food security, food safety and climate change are the main challenges at national level. What are various factors associated with these issues and how can we tackle them? (20)
- Q. No. 5.** What is the role of cottage industry in improving the rural development? What are the major cottage industries linked to agriculture and livestock? (20)

**SECTION-B**

- Q. No. 6.** What is the status and significance of small ruminants in the existing food chain? What are different grazing systems in vogue for small ruminants? How livestock wealth of the country has benefited from existing range and forest resources? (20)
- Q. No. 7.** What are the differences amongst agroforests, urban forests, man-made plantations and state forests? Describe the significance of agroforestry in Pakistan. Why Eucalyptus camaldulensis is not recommended for agroforestry? (20)
- Q. No. 8.** Which are the major wood based industries in Pakistan? Which tree species are important for these industries? How can we reduce the wood losses during utilization in Pakistan? (20)

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**FEDERAL PUBLIC SERVICE COMMISSION**  
**COMPETITIVE EXAMINATION-2022**  
**FOR RECRUITMENT TO POSTS IN BS-17**  
**UNDER THE FEDERAL GOVERNMENT**  
**AGRICULTURE & FORESTRY**

Roll Number

<b>TIME ALLOWED: THREE HOURS</b>	<b>PART-I (MCQS)</b>	<b>MAXIMUM MARKS = 20</b>
<b>PART-I(MCQS): MAXIMUM 30 MINUTES</b>	<b>PART-II</b>	<b>MAXIMUM MARKS = 80</b>
<b>NOTE: (i) Part-II is to be attempted on the separate Answer Book.</b>		
<b>(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.</b>		
<b>(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.</b>		
<b>(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.</b>		
<b>(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.</b>		
<b>(vi) Extra attempt of any question or any part of the question will not be considered.</b>		

**PART-II**  
**SECTION-A**

- Q. No. 2.** What is Integrated Plant Nutrient Management (IPNM)? How chemical fertilizers efficiency can be improved?. How agro-industries waste (sugar, cotton & fruits) can be best utilized as plant nutrient? **(20)**
- Q. No. 3.** Describe present Cotton scenario, causes of low production during last five years and challenges ahead. How past glory of cotton production can be achieved? **(20)**
- Q. No. 4.** What factors influence seed germination? How seed viability is affected during storage? What is informal seed sector? Discuss advantages and disadvantages of informal seed sector. **(20)**
- Q. No. 5.** Write notes on: **(10 each) (20)**
- (a)** Potential and issues of small dams constructed in mountainous and semi-mountainous areas of Pakistan.
- (b)** Advantages and disadvantages of Genetically Modified Organisms (GMOs).

**SECTION-B**

- Q. No. 6.** Discuss objectives and basis of conventional forest classification in Pakistan. Describe the distribution of forests in Pakistan. **(20)**
- Q. No. 7.** Describe role of agro-forestry in forage scarcity mitigation for livestock. How different range areas have played their roles in livestock raring? **(20)**
- Q. No. 8.** Write notes on: **(10 each) (20)**
- (a)** Principles of forestry.
- (b)** Silvicultural systems.

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**AGRICULTURE & FORESTRY**

Roll Number

**TIME ALLOWED: THREE HOURS**

**PART-I(MCQS): MAXIMUM 30 MINUTES**

**PART-I (MCQS)**

**MAXIMUM MARKS = 20**

**PART-II**

**MAXIMUM MARKS = 80**

**NOTE: (i) Part-II is to be attempted on the separate Answer Book.**

**(ii) Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.**

**(iii) All the parts (if any) of each Question must be attempted at one place instead of at different places.**

**(iv) Write Q. No. in the Answer Book in accordance with Q. No. in the Q.Paper.**

**(v) No Page/Space be left blank between the answers. All the blank pages of Answer Book must be crossed.**

**(vi) Extra attempt of any question or any part of the question will not be considered.**

**PART-II**  
**SECTION-A**

**Q. No. 2.** Rural development has offered more scope under the urbanization trend in Pakistan. Discuss on the current scenario, issues, steps taken in past and your vision for the paradigm change in rural development. **(20)**

**Q. No. 3.** Integrated agriculture is an approach for sustainability of resources, profitability of farmers and economic growth of the country. Discuss the issues and solutions for the adoption of integrated agriculture in Pakistan. **(20)**

**Q. No. 4.** Give an overview of rainfed agriculture in Pakistan. Discuss the issues, opportunities and give an insight into the actions required in order to realize the full potential of these areas to contribute in overall performance of agriculture in Pakistan. **(20)**

**Q. No. 5.** Write short notes on the following: **(5-Each) (20)**  
**(a)** Agricultural practices to slow down the climate change  
**(b)** GMO and consequences  
**(c)** Precision agriculture  
**(d)** Failure of cotton crop in Pakistan

**SECTION-B**

**Q. No. 6.** Discuss on the degradation of old forests and values of the newly developed rangelands in Pakistan. Also describe your vision to conceive climate smart polices for forests sustainability. **(20)**

**Q. No. 7.** Rangelands have considerable role in agricultural economy of Pakistan. Explain different ways and means for integrated management of rangelands and livestock production keeping in view the climate change in Pakistan. **(20)**

**Q. No. 8.** Write short notes on any four of the following: **(5-Each) (20)**  
**(i)** Laws of forests and wildlife in Pakistan.  
**(ii)** Land reforms and its impact on agroforestry.  
**(iii)** Wood based industries in Pakistan.  
**(iv)** Social forestry and its value.  
**(v)** Issues relating to Shesham and Eucalyptus  
**(vi)** Watershed management

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**FEDERAL PUBLIC SERVICE COMMISSION**  
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Roll Number

**AGRICULTURE & FORESTRY**

**TIME ALLOWED: THREE HOURS**

**(PART-I MCQs)**

**MAXIMUM MARKS: 20**

**PART-I (MCQs) : MAXIMUM 30 MINUTES**

**(PART-II)**

**MAXIMUM MARKS: 80**

**NOTE: (i) First attempt PART-I (MCQs) on separate OMR Answer Sheet which shall be taken back after 30 minutes.**

**(ii) Overwriting/cutting of the options/answers will not be given credit.**

**(iii) There is no negative marking. All MCQs must be attempted.**

**PART-I (MCQs)(COMPULSORY)**

**Q.1. (i) Select the best option/answer and fill in the appropriate Box  on the OMR Answer Sheet.(20x1=20)**  
**(ii) Answers given anywhere else, other than OMR Answer Sheet, will not be considered.**

1. **Which soil type has the smallest particle size?**  
(A) Sand (B) Silt (C) Clay (D) None of these
2. **Optimal pH range for most crops is:**  
(A) 3-5 (B) 6-7 (C) 8-10 (D) None of these
3. **The process of breaking down organic matter into simpler compounds by microorganisms is:**  
(A) Photosynthesis (B) Respiration (C) Decomposition (D) None of these
4. **The practice of growing two or more crops in proximity to enhance pest control and nutrient utilization is:** (A) Crop rotation (B) Monoculture (C) Agroforestry (D) None of these
5. **The cultivation of crops without the use of soil is known as:**  
(A) Hydroponics (B) Aeroponics (C) Precision farming (D) None of these
6. **The hormone, responsible for promoting cell elongation and bending in response to light, is:**  
(A) Auxin (B) Gibberellin (C) Cytokinin (D) None of these
7. **The process of exposing seeds to moisture and temperature to initiate germination is known as:**  
(A) Stratification (B) Scarification (C) Vernalization (D) None of these
8. **The primary role of pheromones in pest management is:**  
(A) Killing pests directly (B) Repelling pests (C) Attracting pests for monitoring (D) None of these
9. **Which insect order includes pests such as grasshoppers and locusts?**  
(A) Orthoptera (B) Coleoptera (C) Lepidoptera (D) None of these
10. **The primary purpose of backcrossing in plant breeding is:**  
(A) Creating hybrids with increased heterozygosity (B) Introducing resistance to diseases  
(C) Fixing desirable traits in a new genetic background (D) None of these
11. **The primary purpose of sustainable forestry is:**  
(A) Timber extraction only (B) Maximizing short-term profits  
(C) Clear-cutting for quick land regeneration (D) None of these
12. **The term "silviculture" refers to:**  
(A) Rearing of silkworm (B) Forest disease management  
(C) Cultivation of trees and forests (D) None of these
13. **Which of the following is a common invasive species affecting forests?**  
(A) Oak tree (B) Eucalyptus tree (C) Kudzu vine (D) None of these
14. **In forestry, the term "coppicing" refers to:**  
(A) Planting new trees (B) Pruning branches (C) Thinning the forest canopy (D) None of these
15. **Which type of forest management aims to mimic natural disturbances, such as wildfires?**  
(A) Even-aged management (B) Shelterwood cutting (C) Uneven-aged management (D) None of these
16. **The practice of removing dead or diseased trees from a forest is known as:**  
(A) Salvage logging (B) Pruning (C) Clear-cutting (D) None of these
17. **Regeneration of a forest without direct human intervention is referred to as:**  
(A) Reforestation (B) Afforestation (C) Rehabilitation (D) None of these
18. **The primary purpose of riparian forest buffers is:**  
(A) Soil erosion prevention (B) Wildlife habitat conservation (C) Carbon sequestration (D) None of these
19. **Which international agreement focuses on combating illegal logging and promoting trade in legally harvested timber?**  
(A) Kyoto Protocol (B) Forest Law Enforcement, Governance, and Trade (FLEGT)  
(C) Nagoya Protocol (D) None of these
20. **In the context of biodiversity the term "keystone species" refers to:**  
(A) Species that are abundant in number  
(B) Species that play a crucial role in maintaining ecosystem structure  
(C) Species that are endemic to a specific region (D) None of these



**AGRICULTURE & FORESTRY****PART-II**

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**SECTION-A**

- Q. No. 2.** Explore the present situation of oilseed crops in Pakistan and identify potential factors contributing to the insufficient production of edible oil. Propose remedial measures aimed at enhancing this situation. **(20)**
- Q. No. 3.** Examine the distinctions between organic farming and conventional farming practices. Analyze the merits and drawbacks of each method. Evaluate factors such as environmental impact, yield, and soil health to provide a comprehensive understanding of the advantages and disadvantages associated with both approaches. Which would you recommend in Pakistan's perspective? **(20)**
- Q. No. 4.** Assess the impact of climate change on Pakistan's agriculture, particularly its effects on crop patterns and yields. Provide an analytical overview of current practices and propose strategies to make crop management more resilient to climate change, considering adaptation and mitigation measures. **(20)**
- Q. No. 5.** Write short notes on the following: **(10 each)** **(20)**
- (a) Conservation and utilization of plant genetic resources
  - (b) Integrated nutrient management

**SECTION-B**

- Q. No. 6.** How can integrated watershed management address the competing demands for water in agriculture, industry, and domestic use? Analyze the impact of deforestation on watershed health and water availability. How can we integrate science and community engagement in watershed management? **(20)**
- Q. No. 7.** How effectively does the Pakistan Forest Policy integrate with the provisions outlined in the Pakistan Forest Act? Provide specific examples that how the policy's strategic goals are translated into actionable legal measures within the act. Discuss any areas where alignment may be strengthened or improved for more coherent forest governance. **(20)**
- Q. No. 8.** Write short notes on the following: **(10 each)** **(20)**
- (a) Potential of Ecotourism in Pakistan
  - (b) Biodiversity

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