

Virtual University of Pakistan

BT401

Genetic resources and conservation

Final terms Past Papers

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2018

Bt401 Final term 11:00 12 Sep, 2018

1. What are three pillars of Ramsar Convention. 3 marks
2. Types of method for preservation and utilities of Germoplasm storage for AnGR. 3 marks
3. Central purpose of ant zoo. 2 marks
4. Historical background of Ramsar convention. 2 marks
5. Two applications of term medium storage. 3 marks
6. Name physical method for storage. 2 marks
7. What is the extreme weather effect on invertebrate's genetic resources? 5 marks
8. What types of services are provided by PEPA? 5 marks
9. Explain function of management

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of genetic resources program. 5 marks ¹⁰10. Discuss the impact of climate change on FGR. Also discuss how this changing climate effect organism which is associated with trees? 10 marks

BT401 mcqs recent papers

40 Mcqs 6 7 mcqs were from last quiz

6 short Q (2 and 3 marks) MCqs: 1. Dolphin is aMammal. 2. Ramsar convention in.....1960. 3. 21% out of 5,488 mammal species and 12% out of 9,990 bird species are considered to be endangered. 4. WCPA stands forWorld commission on protected areas.

5. In Europe, one estimate put the value of "marketed non wood goods" from forests at €2.3 billion

6. Since the 1970s, the population of the Indus Dolphin has significantly increased here.

7. Animal genetic resources.....

8. Biggest national park of Pakistan.....

9. If hunting is prohibited, a game reserve may be considered a "Nature Reserve" 10. A sanctuary is a protected area which is reserved for the conservation of only animal and human

activities like harvesting of timber 11.

Bahawalpur Zoo covers.....25 acrs

12. Blackbuck became virtually extinct in the Cholistan Desert but the species has been re

introduced in Lal Suhanra

13. Hingol National Park declared reserved in 1988

14. Natural geological and geomorphological features waterfalls

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40 Mcqs

1- seaweeds population (33000)

2- snow leopard population(300)

3- linked generation to generation (genes) not sure

4- land race also called (weeds) not sure



5- habitat management work (all of the given) 6- PGRF (efforts of value something like that)

7- largest national park (hingol)

8- first fish aysy khuch thaw (1953)

9- 2001 (koi act ki date thi)

10- vegetative propagation (tissue culture)

11- 113 (something about genes)

12- species extinct till yet (9 billion) not sure

13- forest woody plants(2.3 billion)

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Yesterday at 5pm

MCQs

1. large natural areas comes into category VI
2. Ramsar Came into force in 1975.
3. total Ramsar sites are 19 in Pakistan.
4. Bahawalpur zoo cover 25 acre
5. largest national park is Hingol
6. black buck is reintroduced in Lal Suhanra park
7. In the game reserves the major focus is specifically the animals
8. Market value of non-wood goods 9. World forest is Euro 2.3 billion

Climate has direct effect on FGR

10. Trigger for migration is all of these 11.

There are two types of genome transfer.

12. 5000 rupees will be fine for cutting tree in 1992 act
- 13.

Cartagena protocol on Bio Safety, 2001

14. Convention on biological diversity, 1992

Bt401

MCQs

1. FAO stands for?
2. GEWIS stands for?
3. Ramsar convention came into force in?
5. Report on fish sperm cryopreservation was published in by Blaxter.
6. Number of laboratories on plant genetic resources in Pakistan?
7. Area covered by Bahawalpur Zoo?
8. Genetic variations are the variations due to
Genes. alleles. Both a and b
9. Reproductive isolation is
Sympatric. Allopatric
10. Light intensity for most of the plants is s⁻¹ m⁻²
11. Black buck wala mcq tha
12. Protected areas and ecological

Bt401

- 1: strict nature aprent problemboth a & b
 - 2: Pakistan animal quarantine ordinance 1979
 - 3: Cartagena protocols not cover....products derived from LMO
 - 4: Cartagena protocol deals with.....biosafety
 - 5: earthworm
 - 6: seed storage
 - 7: DNA bank
 - 8: Chahma & Tuansa barrage.....Punjab Gov
- Subjective

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- 1: advantages of tissue culture
- 2: national park protect landscape and seascape
- 3: distinguish features of habitat species management
- 4: functions of quarantine practice

BT401 5pm

Long same

2. objective of Cartagena protocol
3. effects of extreme weather effects on invertebrate genetic resources
4. What happened to FGR when climate changes primarily? History of CBD. Distinguish features of landscape sea scape. Features of habitat management protected area. Most important reservoirs for biological agent species. Purpose of wildlife sanctuary. Objective of national park

Bt401

Long question same 10

Define habitat species management area 2

Note on cold storage 5

Climate change effect on FGR Objectives of habitat species management areas

Pakistan penal code Which areas are discussed in Cartagena protocol Link between climate change and botanical garden. bt401(11:00am) Define botanical garden?

Define gaming species?

Ramsar areas in Pakistan?

Objective of CBD Importance of botanical garden? Climate change effect on FGR and species related to these trees? Germoplasm wala tha aik. Cartegen production..

Bt401 Long question repeat hua short me ngaya Protocol when and in which city?

Nation Monument socio cultural value 5. Game species 2. Limitation of preservation 5 marks ka cartagena Protocol 5 distinguish feature of natural Monuments 3

BT401

1: What is primary objective National Park? 2M

2: What are game species? 2M

3: Define therm phenotypic plasticity? 2M

4: Give 3 research Botanical garden? 3M Write possible outcomes for introduction of exotic species in FGR? 3M Give link between climate change and Botanical garden? 3M Explain method "Processing of sample" in DNA bank? 5M How invertebrate genetic resources cope with climate change? 5M Describe the features Pakistan Terrestrial Water and Maritime Zones Act 1976? 5M Describe the impact of climate change on FGR? And also describe the effects of changing climate on organisms associated with trees? 10M

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What is coevolution? historical background of CBD? history back ground of ramser convention? process in DNA Gene bank? how do FGR matter? Impact of climate changes on FGR and their related species? in vivo gene bank? advantage of tissue culture? BT401

Primary objectives of national park.

Germplasm conservation

Name at least 3 botanical gardens

Phenotypic plasticity limitations of germplasm threats to FGR botanical gardens impact of climate change on FGR

Bt401 final paper spring 2018

Total Q 50 (80 marks)

40 MCqs 6 7 mcqs were from last quiz 6 short

Q (2 and 3 marks)

MCqs: Dolphin is a Mammal. Ramsar convention in..... 1960. 21% out of 5,488 mammal species and 12% out of 9,990 bird species are considered to be endangered. WCPA stands for World commission on protected areas. In Europe, one estimate put the value of "marketed non wood goods" from forests at €2.3 billion. Since the 1970s, the population of the Indus Dolphin has significantly increased here. Animal genetic resources..... Biggest national park of Pakistan..... If hunting is prohibited, a game reserve may be considered a "Nature Reserve". A sanctuary is a protected area which is reserved for the conservation of only animal and human activities like harvesting of timber. Bahawalpur Zoo covers..... 25 acres. Blackbuck became virtually extinct in the Cholistan Desert but the species has been reintroduced in Lal Suhanra. Hingol National Park declared reserved in 1988. Natural geological and geomorphological features waterfalls. Baqi b easy thy. What is botanical garden? (2). Define forest genetic resources? (2). What is location of cholistan wildlife sanctuary? (2). Name of Botanical gardens in Pakistan. (3). Strategies of Animal genetic resources (3). Plant genetic resources. (3). Objectives of Cartagena Protocol on Biosafety (5). Write note on convention of botanical garden? (5). What is the extreme weather effect on invertebrate's genetic resources? (5). Discuss the impact of climate change on FGR. Also discuss how this changing climate effect organism which is associated with trees? 10

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40 MCqs

1- seaweeds population (33000)

2- snow leopard population (300)

3- linked generation to generation (genes) not sure. land race also called (weeds) not sure. habitat management work (all of the given). PGRF (efforts of value something like that). largest national park (hingol). first fish aysy khuch thaw (1953-2001 (koi act ki date thi)). vegetative propagation (tissue culture). 11- 113

(something about genes) 2- species extinct till yet (9 billion) not sure 3- forest woody plants(2.3 billion)

Subjective

- 1- second largest national park of pakistan
 - 2- phenotypic plasticity
 - 3- physical limitations
 - 4- Issues of habitats and species management area
 - 5- distinguish features of something
 - 6- historical background of CBD
 - 7- sampling of DNA
 - 8- forest genetic resources
 - 9- terrestrial water and marine act
- Long qstn was the same as others

Bt401

5 o'clock

What is the mission of Ramsar 2

What was the reason of botanical garden 2

Ask extinct species to protect krne wala Tha climate change effect of fda 10 Cold storage

10 Strategies for Angr 5

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Who and when does Bahawalpur National Park establish ? 2 mark

How does Forest genetic resources cope climate change 3 mark

Forest genetic resources its climate effects and its affects on tree and organisms that related with it ? 10 marks

Processing of sample in DNA bank 5 mark Note on CBD 3 mark When and in which city Nagro establish ? 2 marks National monument features affects on protected areas 5

mark Fisheries k bary ma tha long 5 mark ka k kya procedure hota ha artificial in ki

Hifazat ka Advantages of tissue culture technique 3 marks BT401

1. Briefly explain state of world's forest genetic resources. 3
2. What are three pillars of Ramsar Convention? 5
3. What is the extreme weather effect on invertebrate's genetic resources? 5 4. Discuss the impact of climate change on FGR. Also discuss how this changing climate effect organism which is associated with trees? 10 5. What types of services are provided by PEPA? 5 6. What areas are covered by Cartagena protocol? 7. Briefly explain historical background of Ramsar convention. 3 8. Describe purpose of panel code. 2 9. What is location of Cholistan Wildlife Sanctuary? 2 10. Mission of Ramsar convention.

2017

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Write two derived resources 2

What are the needs of genetic preservation 2

Define tertiary gene pool 3

What is pakistan animal resource management program 3

What is low oxygen and low pressure storage 3

State the new approaches followed by developing and developed countries to increase food supply and protecting the resources on which they depend 5

What are the advantages of germplasm storage 5

What are the approaches for preservation 5

What are the objective of research institutes for livestock

Mcqs easy but from the entire course

BT401

What is phenylketonuria? 2

Define threatened species? 2

State 2 quarantine principle? 2

What are animal genetic resources ? 3

Explain habitat lose cause of extinction? 3

What are molecular marker? 3

What are three common function of quarantine?3

What are mechanism of cryopreservation name steps? 5

Write short note on genetic resources of pakistan?5

Explain in detail all the labs hosting national Gene bank of pakistan 10

Prospects of genetic resources in future. 10

Principles for successful quarantine. 5

DNA Bank. 5

Difference b/w in breeding and out breeding. 5

Wild genetic resources. 2

Biological diversity. 2

Gene flow in birds give 1 example. Or

ek short tha quarantine ka he..

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Questions

1. Define extinction?

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2. four pillars of food security?
3. Four main mechanism of evolution?
4. What is Quagga?
5. DNA banks

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Germplasm Conservation 10

Germplasm Exploration Laboratory 5

Gene flow 5

Steps for conservation of plant genetic resources 5

Animal Genetic resources management in Pakistan How
habitat loss cause of extinction.

Molecular markers Critical

Endangered Species Onset and
offset conservation.

Quarantine

Two approaches to Genetics resources conservation.

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