

University of Sargodha

ADA/ADS (P-II) Supplementary Exam 2022

Subject: Zoology

Paper: II-A (Chordates Diversity)

Maximum Marks: 35

Time Allowed: 3 Hours

Note: Attempt any five questions. Draw diagram where necessary. All questions carry equal marks.

- Q.1. Explain the respiratory system of birds. (7)
- Q.2. Describe the mechanism of gas exchange in fishes. (7)
- Q.3. Discuss parental care in reptiles. (7)
- Q.4. Write note on different types vocalization call in antarans. (7)
- Q.5. Write an essay on 'bird migration'. (7)
- Q.6. Give a detailed account on mammalian heart with due illustration. (7)
- Q.7. Write different temperature regulatory strategies in amphibians. (7)
- Q.8. Describe osmoregulation in fresh water and Marine fishes. (7)
- Q.9. What reproductive strategy developed in each of the following to increase the chances of survival:
(a) bony fishes, (b) amphibians, and (c) reptiles. (7)
- Q.10. Write a note on respiratory system of mammals. (7)

Zoology Practical Past Paper A Uos

M Walker

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Oxford University Gazette University of Oxford, 1911 **Parliamentary Papers** Great Britain. Parliament. House of Commons, 1921 **The Chemical News and Journal of Industrial Science**, 1905 **The Nineteenth Century and After**, 1893 British Medical Journal, 1900 The School World, 1905 **The Chemical News and Journal of Industrial Science** William Crookes, James H. Gardiner, Gerald Druce, H. W. Blood-Ryan, 1897 **Nature**, 1885

Chemical News and Journal of Industrial Science, 1898 **Catalogue** Bernard Quaritch (Firm), 1894 *Publisher and Bookseller*, 1885 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series *The Bookseller*, 1885 **Asiatic Review** Demetrius Charles Boulger, 1894 Beginning in 1895 includes the Proceedings of the East India Association **Chemical news and Journal of physical science**, 1899 The Journal of Education, 1891 *Reference Catalogue of Current Literature*, 1913 The Chemical News and Journal of Physical Science, 1908 **Nature** Sir Norman Lockyer, 1924 **Doing Exercise Psychology** Mark B. Andersen, Stephanie J. Hanrahan, 2015-01-05 According to the President's Council on Fitness Sports Nutrition If exercise could be packaged into a pill it would be the single most widely prescribed and beneficial medicine in the nation Yet the incorporation of physical activity into a regular routine proves difficult for many Bringing together a field of experts Doing Exercise Psychology uses applied theories alongside authentic client interactions to address the challenging psychological components of physical activity Doing Exercise Psychology helps students understand how to build connections with individual clients strengthen the professional relationship through listening and understand clients needs The text features diverse topics bridging health psychology and exercise psychology and demonstrating the increasingly important role of physical activity in overall wellness and health The first chapter is devoted to the development of mindfulness as a practitioner while another addresses the difficulties professionals encounter with their own inactivity encouraging self reflection in order to be more helpful and open with clients A key feature of many chapters in Doing Exercise Psychology is the in the trenches dialogue between practitioner and client accompanied by follow up commentary on what went right and what went wrong in particular sessions Through these real world scenarios students will witness firsthand the methods that are most effective in communicating with clients The text also explores complex questions such as these What are the implications and consequences of using exercise as a component of psychological therapies How can practitioners help clients with impaired movement abilities as a result of chronic conditions or illness embrace physical activity as part of their therapy or their lives How can exercise be incorporated in therapies to change nutrition smoking and alcohol habits Why are some exercise protocols that are extremely effective for some but not for others How can relationships interrelatedness and attunement to others be vehicles for healthy change in whatever kind of therapy is being done The book is arranged so that information flows progressively covering major themes early and then applying them to the field Part I introduces the

relationship building motif by covering the variety of relationships that one might find in exercise and physical activity settings Part II addresses specific conditions and behavior change with suggestions for encouraging activity in those who are also working to quit smoking reduce alcohol consumption or modify their nutrition habits Part III deals directly with chronic and major medical conditions that professionals will contend with on a regular basis including cancer heart disease and multiple sclerosis Part IV delves into the dark side of exercise such as overtraining exercise dependence and eating disorders A growing and exciting area of study exercise psychology covers all the psychosocial intra and interpersonal and cultural variables that come into play when people get together and exercise Students and practitioners who work with individuals in exercise settings will find Doing Exercise Psychology a vital resource to refer to repeatedly in their practice *The Chemical News ,1896*

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Table of Contents Zoology Practical Past Paper A Uos

1. Understanding the eBook Zoology Practical Past Paper A Uos
 - The Rise of Digital Reading Zoology Practical Past Paper A Uos
 - Advantages of eBooks Over Traditional Books
2. Identifying Zoology Practical Past Paper A Uos
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Zoology Practical Past Paper A Uos
 - User-Friendly Interface

4. Exploring eBook Recommendations from Zoology Practical Past Paper A Uos
 - Personalized Recommendations
 - Zoology Practical Past Paper A Uos User Reviews and Ratings
 - Zoology Practical Past Paper A Uos and Bestseller Lists
5. Accessing Zoology Practical Past Paper A Uos Free and Paid eBooks
 - Zoology Practical Past Paper A Uos Public Domain eBooks
 - Zoology Practical Past Paper A Uos eBook Subscription Services
 - Zoology Practical Past Paper A Uos Budget-Friendly Options
6. Navigating Zoology Practical Past Paper A Uos eBook Formats
 - ePUB, PDF, MOBI, and More
 - Zoology Practical Past Paper A Uos Compatibility with Devices
 - Zoology Practical Past Paper A Uos Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Zoology Practical Past Paper A Uos
 - Highlighting and Note-Taking Zoology Practical Past Paper A Uos
 - Interactive Elements Zoology Practical Past Paper A Uos
8. Staying Engaged with Zoology Practical Past Paper A Uos
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Zoology Practical Past Paper A Uos
9. Balancing eBooks and Physical Books Zoology Practical Past Paper A Uos
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Zoology Practical Past Paper A Uos
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Zoology Practical Past Paper A Uos
 - Setting Reading Goals Zoology Practical Past Paper A Uos
 - Carving Out Dedicated Reading Time

- 12. Sourcing Reliable Information of Zoology Practical Past Paper A Uos
 - Fact-Checking eBook Content of Zoology Practical Past Paper A Uos
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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