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and female systems. Gonads are the organs of the reproductive system that produce the  
gametes (haploid sex cells)

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Fertilization: Process in which two gamete cells unite. Zygote: A fertilized cell (the result of

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fertilization). Meiosis: Cell division where the number of chromosomes is cut in half (results in haploids). Gametogenesis: Process where haploid cells become gametes.

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Biology 12 - Reproduction Study Guide RaycroftC:\Users\Owner\Documents\Billy's\1 Billy's 08-09\Bio 12 Bill\14 Reproduction\3 Study Guide - Reproduction.doc Page 1 of 2 1. On the diagram, label the parts of the male reproductive system. 2. Describe the functions of the following parts of the male reproductive system: i. testis

3 Study Guide - Reproduction

CBSE Class 12 Biology Revision Notes Chapter 3 Human Reproduction Humans are sexually reproducing and viviparous. The reproductive events in humans include formation of gametes (gametogenesis), i.e., sperms in males and ovum in females, transfer of sperms into the female genital tract (insemination) and fusion of male and female gametes (fertilisation) leading to formation of zygote.

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Have two sets of chromosomes; one from each parent. In humans, it's 46 or 23 pairs of homologous chromosomes; diploid ( $2n$ ). Gamete cells. Sex cells; have one set (23 chromosomes)- haploid ( $1n$ ). Meiosis. Cell division which produces haploid chromosomes in 4 gametes (egg or sperm) by dividing twice but repeating only once. Genetic recombination. The process that allows variation in species following when chromatids break off and exchange places with the same part of the homolog (crossing over);

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12. Label a diagram of ovary (primary follicle, secondary follicle, vesicular follicle, ovulation,

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corpus luteum). 13. Assuming that fertilization has not occurred, describe the route that ova take through the female body. 14. Name the phases of the ovarian cycle and uterine cycle. 15.

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RAYCROFT Worksheet - Reproduction - Key.doc - Page 1 of 4. z) follicles sac-like structures within ovaries (about a million per ovary at time of birth -- only about 400,000 remain by

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puberty); each follicle contains an immature egg (oocyte).

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MCAT Study Guide Biology Ch. 12 - Reproduction - Mcatforme 12.3: development of the male reproductive system. A. Embryo has both Wolffian ducts and Mullerian ducts V. 12.5: female reproductive system. A. anatomy and development. 1. Internal genitalia are derived from the Mullerian ducts; these develop in the

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Now in full color, Manual of Equine Reproduction, 3rd Edition provides a comprehensive look at the reproductive management of horses, including management of stallions, pregnant mares, and neonatal foals. Expert authors use a concise, practical approach in discussing improved therapies and treatments in equine breeding. You'll enhance your skills and knowledge with this book's detailed coverage of techniques used in reproductive examination, breeding procedures, pregnancy diagnosis, foaling, and reproductive tract surgery. A clinical emphasis includes a step-by-step format of possible scenarios from conception to breeding



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management. Practical information includes topics such as breeding with transported cooled or frozen semen, and caring for the broodmare and newborn foal. The organization of material corresponds to the course of study in veterinary school, so you can find topics easily. Chapter objectives and study questions at the beginning of each chapter guide you through the material and provide clear learning goals. Evaluation of Breeding Records chapter covers the importance of breeding records, and how to use them to evaluate stallion performance and optimize fertility. References are listed at the end of each chapter for further research and study. Full-color photographs and illustrations clearly depict procedures, and all drawings have been redrawn and improved. NEW Assisted Reproductive Technology chapter goes beyond embryo transfer. Updated content includes the latest advances in therapies and treatments. New content is added to two chapters, Reproductive Physiology of the Nonpregnant Mare and Manipulation of Estrus in the Mare. Thorough coverage of every aspect of equine reproduction provides a strong foundation for success in veterinary practice, including a discussion of the use of GnRH-analog deslorelin (Ovuplant) to hasten ovulation; aseptic technique for endometrial biopsy; use of transabdominal ultrasonography, especially in early pregnancy; determination of fetal gender by transrectal ultrasonography; aspiration testicular biopsy using a spring-loaded biopsy instrument; and procedure for surgical embryo transfer.

Packed with all the core curriculum topics, this biology book for kids 12+ years old is ideal for home and school learning. From reproduction to respiration and enzymes to ecosystems, this guide makes complex topics easy to grasp at a glance. Perfect support for coursework, homework, and studying for tests. Each topic is fully illustrated to support the information,

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make the facts crystal clear, and bring the science to life. For key ideas, "How It Works" and "Look Closer" boxes explain the theory with the help of simple graphics. And for studying, a handy "Key Facts" box provides a simple summary you can check back on later. With clear, concise coverage of all the core biology topics, Super Simple Biology is the perfect accessible guide to biology for children, supporting classwork and making studying for tests the easiest it's ever been.

Male Reproductive Function gives an up-to-date review on the physiology and disease processes associated with the male reproductive system. The first few chapters describe the regulation of the functions of the testis and the integration of its components: germ cells, Sertoli cells and Leydig cells. This is followed by a description of puberty and aging, and the disorders or dysfunction that may be associated with these physiological processes. Discussions on the current methods for the diagnosis and treatment of male hypogonadism, male infertility and male sexual dysfunction follow, with detailed descriptions of types of androgen replacement and the benefits and risks of such treatment. The book concludes with the development of male contraception and the possible influence of the environment on the male reproductive system. Male Reproductive Function represents a conglomeration of the efforts of experts in andrology from all over the world, both in basic cellular/molecular biology as well as in clinical science and practice. This book is suitable for endocrinologists, urologists, general internists, gynecologists and other students in the field of male reproduction.

Packed with core curriculum topics, this book for kids 12+ is ideal for home and school

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learning. From reproduction to respiration and from enzymes to ecosystems, this guide makes complex topics easy to grasp at a glance. Perfect support for coursework, homework, and exam revision. Each topic is fully illustrated to support the information, make the facts crystal clear, and bring the science to life. For key ideas, "How it works" and "Look closer" boxes explain the theory with the help of simple graphics. And for revision, a handy "Key facts" box provides a simple summary you can check back on later. With clear, concise coverage of all the core biology topics, Super Simple Biology is the perfect accessible guide to biology for children, supporting classwork, and making studying for exams the easiest it's ever been.

Essential Reproduction provides an accessible account of the fundamentals of reproduction within the context of cutting-edge knowledge and examples of its application. The eighth edition of this internationally best-selling title provides a multidisciplinary approach integrating anatomy, physiology, genetics, behaviour, biochemistry, molecular biology and clinical science, to give thorough coverage of the study of mammalian reproduction. Key features: Contains discussion of the latest on conceptual, informational and applied aspects of reproduction New pedagogical features such as clinical case studies at the end of each chapter Better use of boxed material to improve separation of narrative text from ancillary information. Highlighted key words for ease of reference relate to summary of key point Introduction now split into two sections Expanded content in Fetal challenges and Society and reproduction chapters Substantial rearrangement and updating in Making sperm, Controlling fertility and Restoring fertility chapters

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rules of analysis were ever developed to follow in a step-by-step manner to solve typically encountered problems. This results from numerous different conditions and principles involved in a problem that leads to many possible different solution methods. To prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps, making this task more burdensome than solving the problem directly due to the expectation of much trial and error. Current textbooks normally explain a given principle in a few pages written by a biologist who has insight into the subject matter not shared by others. These explanations are often written in an abstract manner that causes confusion as to the principle's use and application. Explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied. The numerous possible variations of principles and their applications are usually not discussed, and it is left to the reader to discover this while doing exercises. Accordingly, the average student is expected to rediscover that which has long been established and practiced, but not always published or adequately explained. The examples typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles. The explanations do not provide sufficient basis to solve problems that may be assigned for homework or given on examinations. Poorly solved examples such as these can be presented in abbreviated form which leaves out much explanatory material between steps, and as a result requires the reader to figure out the missing information. This leaves the reader with an impression that the problems and even the subject are hard to learn - completely the opposite of what an example is supposed to do. Poor examples are often worded in a confusing or obscure way. They might

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not state the nature of the problem or they present a solution, which appears to have no direct relation to the problem. These problems usually offer an overly general discussion - never revealing how or what is to be solved. Many examples do not include accompanying diagrams or graphs, denying the reader the exposure necessary for drawing good diagrams and graphs. Such practice only strengthens understanding by simplifying and organizing biology processes. Students can learn the subject only by doing the exercises themselves and reviewing them in class, obtaining experience in applying the principles with their different ramifications. In doing the exercises by themselves, students find that they are required to devote considerable more time to biology than to other subjects, because they are uncertain with regard to the selection and application of the theorems and principles involved. It is also often necessary for students to discover those "tricks" not revealed in their texts (or review books) that make it possible to solve problems easily. Students must usually resort to methods of trial and error to discover these "tricks," therefore finding out that they may sometimes spend several hours to solve a single problem. When reviewing the exercises in classrooms, instructors usually request students to take turns in writing solutions on the boards and explaining them to the class. Students often find it difficult to explain in a manner that holds the interest of the class, and enables the remaining students to follow the material written on the boards. The remaining students in the class are thus too occupied with copying the material off the boards to follow the professor's explanations. This book is intended to aid students in biology overcome the difficulties described by supplying detailed illustrations of the solution methods that are usually not apparent to students. Solution methods are illustrated by problems that have been selected from those most often assigned for class work and given on examinations. The problems are

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arranged in order of complexity to enable students to learn and understand a particular topic by reviewing the problems in sequence. The problems are illustrated with detailed, step-by-step explanations, to save the students large amounts of time that is often needed to fill in the gaps that are usually found between steps of illustrations in textbooks or review/outline books. The staff of REA considers biology a subject that is best learned by allowing students to view the methods of analysis and solution techniques. This learning approach is similar to that practiced in various scientific laboratories, particularly in the medical fields. In using this book, students may review and study the illustrated problems at their own pace; students are not limited to the time such problems receive in the classroom. When students want to look up a particular type of problem and solution, they can readily locate it in the book by referring to the index that has been extensively prepared. It is also possible to locate a particular type of problem by glancing at just the material within the boxed portions. Each problem is numbered and surrounded by a heavy black border for speedy identification.

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