

305

ROLL NUMBER				
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SET A



INDIAN SCHOOL MUSCAT

SECOND PERIODIC TEST

BIOLOGY (044)

CLASS: XII

Time Allotted: 50 mts.

31.05.2022

Max. Marks: 20

GENERAL INSTRUCTIONS:

1. Draw the Diagram wherever necessary.
2. Answer all the questions.

1. Mention the function of mitochondria in sperm. 1
2. Write the location and function of the Sertoli cells in humans. 1
3. Why tubectomy is considered a contraceptive method? 1
4. Give one reason to justify statutory ban on amniocentesis. 1
5. Name an oral pill used as a contraceptive by human females. Explain how does it prevent pregnancy. 2
6. A couple where both husband and wife are producing functional gametes, but the wife is still unable to conceive, is seeking medical aid. Describe any one method that you can suggest to this couple to become happy parents. 2
7. What stimulates pituitary to release the hormone responsible for parturition? Name the hormone. 2
8. Why is breast-feeding recommended during the initial period of an infant's growth? Give reasons. 2

9. Draw a labelled diagram of a human blastocyst. 2
10. Differentiate between: (one point only for each) 3
- a) Spermatogenesis and spermiogenesis
 - b) Vas deferens and Vasa efferentia
 - c) Corona radiata and Zona pellucida
11. Trace the path of spermatozoa from the testes up to the ejaculatory duct only. 3

End of the Question Paper



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31.05.2022

Max. Marks: 20

GENERAL INSTRUCTIONS:

1. Draw the Diagram wherever necessary.
2. Answer all the questions.

1. A doctor has observed the chromosomal disorders in developing foetus and advised the couple to undergo abortion. Suggest the technique by which doctor observed the chromosomal disorders. 1
2. When do the oogenesis and the spermatogenesis initiate in human females and males respectively? 1
3. Why is tubectomy considered a contraceptive method? 1
4. Write the location and function of the Sertoli cells in humans. 1
5. A couple where both husband and wife are producing functional gametes, but the wife is still unable to conceive, is seeking medical aid. Describe any one method that you can suggest to this couple to become happy parents. 2
6. When and where do chorionic villi appear in humans? State their functions. 2
7. Name an oral pill used as a contraceptive by human females. Explain how it prevents pregnancy. 2

8. What stimulates pituitary to release the hormone responsible for parturition? Name the hormone. 2
9. Why are the human testes located outside the abdominal cavity? Name the pouch in which they are present. 2
10. (i) Draw a sectional view of seminiferous tubule of a human. Label the following cells in the seminiferous tubule: 3
- (a) Cells that divide by mitosis to increase their number.
 - (b) Cells that undergo Meiosis I.
 - (c) Cells that undergo Meiosis II.
 - (d) Cells that help in the process of spermiogenesis.
- (ii) Mention the role of Leydig cells.
11. Trace the path of spermatozoa from the testes up to the ejaculatory duct only. 3

End of the Question Paper

2/3/22

ROLL NUMBER				
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SET C



INDIAN SCHOOL MUSCAT

SECOND PERIODIC TEST

BIOLOGY (044)

CLASS: XII

Time Allotted: 50 mts.

31.05.2022

Max. Marks: 20

GENERAL INSTRUCTIONS:

1. Draw the Diagram wherever necessary.
2. Answer all the questions.

1. When do the oogenesis and the spermatogenesis initiate in human females and males respectively? 1
2. What are the measures one has to take to prevent from contracting STDs? 1
3. Name the secretion of male reproductive accessory glands. 1
4. A doctor has observed the chromosomal disorders in developing foetus and advised the couple to undergo abortion. Suggest the technique by which doctor observed the chromosomal disorders. 1
5. Why are the human testes located outside the abdominal cavity? Name the pouch in which they are present. 2
6. When and where do chorionic villi appear in humans? State their functions. 2
7. What is "morula" stage of human embryo? What is it transformed into during embryo development? 2
8. Copper ions-releasing IUDs are more efficient than non-medicated methods. Why? 2

9. A couple where both husband and wife are producing functional gametes, but the wife is still unable to conceive, is seeking medical aid. Describe any one method that you can suggest to this couple to become happy parents. 2
10. During pregnancy, the hormones levels increase in woman. State their importance. 3
11. (i) Draw a sectional view of seminiferous tubule of a human. Label the following cells in the seminiferous tubule: 3
- (a) Cells that divide by mitosis to increase their number.
 - (b) Cells that undergo Meiosis I.
 - (c) Cells that undergo Meiosis II.
 - (d) Cells that help in the process of spermiogenesis.
- (ii) Mention the role of Leydig cells.

End of the Question Paper