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**INDIAN SCHOOL MUSCAT
SECOND PERIODIC ASSESSMENT
SUBJECT : BIOLOGY**

CLASS: XII

Sub.Code: 044

Time Allotted: 40 Min

10.05.2021

Max.Marks: 20

General Instructions:

- (i) All questions are compulsory.
- (ii) Wherever necessary, neat and properly labeled diagrams should be drawn.

SECTION A

- 1 Where are the sperm heads found embedded to survive after spermiogenesis? Why? 1
Sertoli cells/ derive nutrition
- 2 How is Corpus luteum formed? Write its significance. 2
Remnants of Graafian follicle (1)/secretes progesterone(½)/ maintenance of endometrium (½)
- 3 Write the functions of the following parts of Human sperm. 2
(a) Acrosome- contains enzyme to penetrate zona pellucide to enable fertilization
(b) Tail – movement
(c) Mitochondria in middle piece- to provide energy. (for any two)
- 4 What stimulates pituitary to release the hormone responsible for parturition? Give the name of the 2
hormone?
Signal from the fully developed foetus and placenta / foetal-ejection reflex induces mild uterine
contractions. (1)
Oxytocin (1)
- 5 What is Colostrum? Why is it essential? 2
The yellow colour milk produced during the initial stages of lactation is called colosturm.
Colostrum contains necessary antibodies that provide protection against diseases to newborn infants.
- 6 When and where do chorionic villi appear in humans? State their function. 2
After implantation (½)/ on theTrophoblast (½)/ they interdigitate with the uterine tissue to form
placenta. (1)

- 7 With the help of a labelled diagram show the stage of the human embryo that gets implanted in the uterus. Mention its parts. 3

Blastocyst 1

Diagram 1

Trophoblast, Inner cell mass 1

- 8 Differentiate between Spermatogenesis and Oogenesis. (any three points) 3

- 9 Describe the structure of testes in human males. 3

Testicular lobules/seminiferous tubules/spermatogonia/sertoli cells/interstitial cells/androgens (6 x ½)

End of the Question Paper