

BHARATIYA VIDYA BHAVAN'S V.M.PUBLIC SCHOOL, VADODARA
SESSION 2017-18
Question Bank

CHAPTER-3

HUMAN REPRODUCTION

VERY SHORT ANSWER QUESTIONS (1 marks each)

- Q1.What is the function of acrosome in a sperm?
- Q2.Name the term used in metamorphosis of spermatids?
- Q3.Name the scientific term used for the membrane that surrounds an ovum.
- Q4.What is the function of bulbourethral glands?
- Q5.What is the function of leydig cells or interstitial cells?
- Q6.How many chromosomes are present in a human male sperm?
- Q7.At what stage is the human embryo implanted in the uterus?
- Q8.What is the function of scrotum?
- Q9.Name the fluid which protects an embryo.
- Q10.How many sperms will be produced from 50 primary spermatocytes?
- Q11.What is trophoblast?
- Q12 What do you mean by foetus ejection reflex?
- Q13.EXPAND i.HCG ii.FSH Q14.Define spermiogenesis.Where does it occur?
- Q15.What is endometrium?
- Q16.What is corona radiata?
- Q17.Name the three layers of uterine wall.
- Q18.What is corpus leuteum?
- Q19.Name the tissue which lines the inner surfaces of fallopian tube
- Q20.Where does fertilisation normally takes in human female?

SHORT ANSWER TYPE QUESTIONS (2 marks each)

- Q1.What is ovulation? What happens to the graffian follicle after ovulation?
- Q2.Draw a diagram of T.S.of the part of seminiferous tubule of testis of an adult male and label any four parts in it.
- Q3.First half of the menstrual cycle is caled proloferative phase or follicular phase.Explain
- Q4.Spermatids posseses haploin chromosomes number.Explain.
- Q5.State any two differences between spermatogenesis and oogenesis.
- Q6.What is corpus leteum? under what conditions does it undergoes degeneration?
- Q7.Differentiate between morula and blastula.
- Q8.Distinguish between.
i.corona radiata and zona pellucida
ii.blastula and gastrula
- Q9.Why the testis are present outside the abdominal cavity in human male?
- Q10.Where do sperms mature and becomes motile?
- Q11.Why does meiosis amd mitotis occur in germ cells?
- Q12.How is milk production regulated by hormones in human females.Explain.
- Q13.Who dicovered sertoli cells ?.mention their role in spermatogenesis.
- Q14.What is seminal plasma?What are its componenets?
- Q15.Write a brief account of structure and function of placenta.
- Q16.Mention the sites of action of the hormones GnRH and FSH during spermatogenesis in human males.give one function of each of the hormones.

SHORT ANSWER QUESTIONS (3 marks each)

- Q1.What is pregnancy hormone?Why is it so called?Name two sources of this hormone in a human female.
- Q2.What is the number of chromosomes in the following cells of a human male?
i.Spermatogonial cells ii.Spermatids iii.Primary spermatocytes iv.Sertoli cells
- Q3.What is the number of chromosomes in the following cells of human female?
i.Primary oocyte ii.Ootid iii.Secondary oocytes iv.Follicle cells.
- Q4.Briefly decrbe the stages of spermatogenesis in human male.
- Q5.A sperm has just fertilised a human egg in the fallopian tube.Trace the events that the fertilised egg will undergo up to the implantation of the blastocyst in the uterus.
- Q6.Make a digrammatic sketch of thr electon microscopic view of a mammalian sperm.Label any six parts

in its head, neck and middle piece.

Q7. What happens to the blastocyst immediately after implantation?

Q8. Draw a labelled diagram of the sectional view of mammary gland.

Q9. What is meant by each of the following:

i. primary follicle ii. secondary follicle iii. tertiary follicle

LONG ANSWER QUESTIONS (5 marks each)

Q1. Describe the functions of the following:

i. Epididymis ii. Vas deferens iii. Seminiferous tubules iii. Vagina iv. Trophoblast v. Scrotum

Q2. Write briefly the changes in the following organs in the different phases of the menstrual cycle.

i. Ovaries ii. Uterus iii. Fallopian tube.

Q3. Draw a flow chart to show hormonal control of human male reproductive system, highlighting the inhibitory and stimulatory directions in it.

Q4. Draw a diagram of human female reproductive system and label any ten parts in it.

Q5. What is menstruation? What are the specific reproductive system and label any ten parts in it.

Q6. Draw a labelled diagram showing the parts of human male reproductive system. Label ten parts in it.

Q7. Define oogenesis. Briefly describe the stages of oogenesis in human females.

Q8. Explain megasporogenesis and megagametogenesis.

Q9. Explain gametogenesis and spermatogenesis.

Q10. What is menstruation? What are specific actions of FSH, LH, estrogen and progesterone in the menstrual