

**GIRLS' HIGH SCHOOL COLLEGE**  
**2020-2021**  
**CLASS 12th A**  
**BIOLOGY WORKSHEET-04**  
**REPRODUCTION**

**INTRODUCTION:** Parents are requested to ensure that your ward spends at least for two days to read and understand the topics, and refer to the given reference books and websites given below.

**Reference Books:**

1. Nootan ISc Biology Class XII Nageen Prakashan
2. Balaji ISc Biology, A Textbook for Class XII Shri Balaji Publications

**Website:**

1. YouTube – MED Simplified
2. <https://www.webmd> > Your guide to Female Reproductive System

**1. Answer the following questions briefly:**

- a) What is Menorrhoea?
- b) Name the process of the rupture of Graafian follicle and subsequent release of egg from the ovary.
- c) Name the sex hormones secreted by human females.
- d) How is Corpus luteum formed? What is its function?

**2. Choose the correct answer from the alternatives given below:**

- a) **The place where fertilization in humans occurs?**
  - i. Ureter
  - ii. Fallopian tube
  - iii. Uterus
  - iv. Seminiferous tubule

**b) The formation of OVA is known as:**

- i. Oviparity
- ii. Ovulation
- iii. Oviposition
- iv. Oogenesis

**c) The Luteal phase of the ovarian cycle occurs in a 28 day cycle at about:**

- i. Days 1-5
- ii. Days 6-13
- iii. Day 14
- iv. Days 15-28

**d) Interstitial cell stimulating hormone (ICSH) is secreted from:**

- i. Testes
- ii. Anterior pituitary gland
- iii. Corpus Luteum
- iv. Ovaries

**e) Penetration of Ovum by sperm during fertilization is assisted by:**

- i. Centrosome
- ii. Mitochondria
- iii. Acrosome
- iv. None of the above

**f) Cleavage of human egg is:**

- i. Holoblastic
- ii. Meroblastic
- iii. Holoblastic unequal
- iv. None of these

**3. Differentiate between the following pairs:**

- a) Spermatogenesis and Oogenesis
- b) Animal pole and vegetal pole
- c) Blastulation and gastrulation
- d) Corona radiata and Zona pellucida
- e) Morula and Blastula

**4. Define the following terms:**

- a) Implantation
- b) Colostrum
- c) Gestation period
- d) Lactation
- e) Parental care

**5. Explain the process of Oogenesis in detail.**

**6. What is menstrual cycle? Describe major events of menstrual cycle in brief.**

**7. Draw a neat and labelled diagram of structure of human ovum.**

**8. What is placenta? Placenta also acts as an endocrine gland. Justify the statement.**

**9. Draw a well labelled diagram of T.S of human ovary.**

**10. Give the functions of the following:**

- a) Amniotic Fluid
- b) Endometrium
- c) Fimbriae
- d) Uterus
- e) FSH

**11. Give one most important contribution of the following scientists:**

- a) G.H. Mendel
- b) Hershey and Chase
- c) Charles Robert Darwin
- d) Sanger
- e) John Ray

**12. Expand the following abbreviations:**

- a) SCID
- b) PEM
- c) PSII
- d) LAB
- e) JFM

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