[Time: 3 Hours]

[Marks: 100]

| | | N.B: | All questions are Figures to the rig | e comp ght indi | | | | |
|-----|---|---|---|--------------------|--|----|--|--|
| Q.1 | a)b)c) | (animal pole, vegetal pole, nuclear pole) of the sperm contains proteolytic enzymes which help in the entry into the ovum during fertilization. (Mid piece, Principle piece, Acrosome) The first menstruation begins at puberty and is called as (menarch, ovulation, gestation) | | | | | | |
| | e) | PUC test is | related to(e | utroph | ication, vehicular emission, salinity) | | | |
| Q.1 | B) | Match the column I with column II & rewrite | | | | | | |
| | | | Column I | | Column II | | | |
| | | a) Mo | osaic egg | (i) (| LH surge | | | |
| | | b) Ro | tational cleavage | ii) | Klinefelter syndrome | | | |
| | | | mary hypogonadism | iii) | Predetermined development | | | |
| | | d) Gre | een House Gas | iv) | Isolecithal mammalian egg | | | |
| | | e) Ov | ulatory phase | (v) | Methane | | | |
| Q.1 | a)b)c)d) | 2, 2, 3, 5, 4, 7, 4, 5, 2, 7, 5, 7, 7, 7, 7, 7, 7, 4, 2, 8, 2, 8, 4, 2, 8, | | | | | | |
| Q.1 | D) | Answer in one sentence: 0 | | | | | | |
| | a) | What is blastodise? | | | | | | |
| | b) | Name the organism responsible to cause Gonorrhea | | | | | | |
| | 200 | b . 90' NO AP . 50' N | rm of PCOS. | Y | | | | |
| | - D. V. | Give full for | | | | | | |
| 20 | e) | What is soil | erosion? | | | | | |
| Q.2 | 7 ~ ~ | | one of the following: | vage. | | 10 | | |
| | b) | What is coe | lom? Describe its form | nation. | | | | |
| 7 | M 77 | | 7.57 | Dogo | 1 of 7 | | | |

| Q.2 | B) | Answer any two of the following: | 10 | | |
|-----|--------------|--|----|--|--|
| | a) | Describe epiboly | | | |
| | b) | Describe meroblastic cleavage | | | |
| | c) | Describe oligolecithal eggs | | | |
| | d) | Describe different types of sperms in animals | | | |
| Q.3 | A) | A) Answer any one of the following: | | | |
| | a) | Describe the anatomy of female reproductive system in human. | | | |
| | b) | Describe the hormonal regulation of male reproductive system in human. | | | |
| Q.3 | B) | Answer any two of the following: | 10 | | |
| | a) | Describe andropause | | | |
| | b) | Write short note on Syphilis | | | |
| | c) | Write note on abortion | 36 | | |
| | d) | Describe ZIFT | | | |
| Q.4 | A) | Answer any one of the following: | 10 | | |
| | a) | Describe effects of water pollution. | | | |
| | b) | Describe types and sources of air pollutants. | | | |
| Q.4 | B) | Answer any two of the following: | 10 | | |
| | a) | Describe radioactive pollution. | | | |
| | b) | Describe health hazards of noise pollution. | | | |
| | c) | Describe control measures of soil pollution. | | | |
| | d) | Describe control measures of solid wastes. | | | |
| Q.5 | | Write short notes on any four of the following: | 20 | | |
| | a) | Gastrulation in protochordates | | | |
| | b) | Discoblastula | | | |
| | c) | Hormonal methods of contraception | | | |
| | d) | Accessory glands and external genitalia in male | | | |
| | e) | E-waste | | | |
| | \mathbf{f} | Control measures of air pollution | | | |
