

70481

ANSWER KEY - ~~SECRET~~

Q

Q.1A]

- a) blastomeres.
- b) Mesoleuthal.
- c) amnorrhea.
- d) Thermosphere.
- e) CFC.

Q.1B]

- a) Echinoderms.
- b) Primitive groove.
- c) Male reproductive system.
- d) Female reproductive system.
- e) PAN.

Q.1C]

- a) True.
- b) True.
- c) False.
- d) True.
- e) False.

Q.1D]

- a) The area with heavy deposition of yolk is called as vegetal pole in egg.
- b) The central cavity present in the later phase of blastula is called as blastocoel.
- c) An estimated 10% fall in the level of testosterone every 10 years in male after the age of 30 years is called as andropause.
- d) an industrial effluent pipe or municipal drainage pipes.
- e) The release of any unwanted substance or pollutant which are responsible for the contamination of environment is called as pollution.

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- Q2 A] a) Introduction and schematic diagram of coelom formation. (2M)  
Explanation on methods of coelom formation. (3M)  
Explanation on types of coelom. (3M)  
Diagram of types of coelom. (2M)
- b) Description of basic structure of sperm. (3M)  
Diagram of sperm. (2M)
- Q2 B] a) Explanation on different types of cleavage based on symmetry with an examples. (3M)  
Diagrams (2M)
- b) Explanation on types of epibolic movements. (3M)  
Diagrams (2M)
- c) Explanation on different types of telolecithal eggs. (3M)  
Diagrams (2M)
- d) Explanation on mechanism of gastrulation in mammals (3M)  
Diagrams (2M)
- Q3 A] a) Introduction of menstrual cycle & menarche (1½M)  
Role of hormones via Pituitary gonadal axis (1½M)  
Explanation on different phases of menstrual cycle (5M)  
Schematic diagram of events of menstrual cycle. (2M)
- b) Explanation on oocyte cryopreservation (2M)  
Explanation on sperm cryopreservation (2M)  
Explanation on cryopreservation of embryo with its need (1½M)  
Types of cryopreservation & stages of cryopreservation (3M)  
Limitations & drawbacks (1½M)
- Q3 B] a) Introduction on barrier method of contraception (1M)  
Explanation on condom, female condom, diaphragm or cap & spermicides (4M)
- b) Introduction of endometriosis. (1M)  
Explanation on age limit & factors. (2M)  
Symptoms. (1M)  
Treatment. (1M)
- c) Introduction of PCOS. (1M)  
Diagnosis. (1M)  
Causes & symptoms (1½M)  
Treatment & precautionary measures (1½M)
- d) Meaning, causes, & treatment of impotence. (1M)  
Meaning causes & treatment of idiopathic infertility (2½M)

- 3
- Q1
- Q4 A] a) Explanation on climate change & its causes. (2½)
- Explanation on global warming & its causes. (2½)
- Role of UNFCCC & Kyoto protocol (1½)
- Effects of global warming on atmosphere (2M)
- Explanation on Carbon credit & Carbon footprint. (1½M)
- b) Explanation on hazardous effects of solid waste pollution with respect to environment & human health. (5M)
- Description of any 5 methods of controlling solid waste pollution (5M)
- Q4 B] a) Introduction of radioactive pollution & disaster with an example. (1½)
- Effects of radioactive pollution on human health. (02M)
- Control measures of radioactive pollution. (1½)
- b) Detail explanation on any 5 types & sources of soil pollutants. (05)
- c) Detail explanation on any 5 effects of water pollution on environment & humans. (05)
- d) Any 5 types of <sup>control measures</sup> ~~sources~~ of air pollution can be explain in detail (05)
- Q5] a) Description of discoblastula. (3M)
- Diagram (2M)
- b) Description of mechanism of gastrulation in frog (3M)
- Diagram (2M)
- c) Introduction about damage to uterus. (01M)
- Different causes of damage to uterus & treatment can be explain. (4M)
- d) Meaning of azoospermia (1½M)
- Explanation on causes of azoospermia. (2M)
- Introduction of Oligospermia (½M)
- Explanation on causes of oligospermia. (2M)
- e) Explanation on any 5 types of & sources of water pollutants. (05M)
- f) Explanation on hazardous effects of noise pollution on human health & on animals. (05M)