

Question Bank For PG Course

Zoology

Paper-7A

DEVELOPMENTAL BIOLOGY : PGZO-VIIA

Question 1
Where from <i>Drosophila</i> germ cells arise?
Question 2
Where the 'Nebenkern' structure is found?
Question 3
Which one is the major contributing gland or component in human semen formation?
Question 4
Mention the function of zona proteins.
Question 5
What is the cause of resting potential shift to positive level in egg membrane just after sperm entry?
Question 6
State two major limitations of IVF.
Question 7
Which gene product signal causes follicle cells to differentiate into dorsal morphology in Drosophila embryo?
Question 8
Give examples of two teratogenic drugs.
Question 9
What is 'spay-vac'?
Question 10
In absence of 20-hydroxyecdysone which protein binds to ecdysone responsive genes to prevent transcription?
Question 11
State an example of multipotent stem cells.
Question 12

Which maternal effect gene primarily express in a postero-anterior gradient to determine anterio-posterior axis in Drosophila?
Question 13
What is the function homeotic genes in <i>Drosophila</i> ?
Question 14
In which area of brain the neural stem cells exists?
Question 15
What are the transcription factors which maintain the characteristic pluripotency of inner cell mass (ICM) of mouse embryo?
Question 16
Where do primordial germ cells (PGC) migrate?
Question 17
In Drosophila sp. spermatogenesis which cell organelle form a dense ring surrounding nucleus during diakinesis?
Question 18
Where do we found poleplasm?
Question 19
Name one enzyme found in human semen which is produced in prostate gland.
Question 20
What is the function of ribonuclease in semen?
Question 21
Where the sperm mature and store in mammalian reproductive organ?
Question 22
What is the effect of 'resact' on sperm?
Question 23
In which phase mammalian sperm enter within the oocyte?
Question 24
Mention the year when first IVF baby was born.

Which cells produce accessory egg membrane?
Question 26
Give example of an antimitotic drug which has teratogenic effect.
Question 27
From where thyrotropin releasing hormone (TRH) releases?
Question 28
What is stadium?
Question 29
Give example of a terminally differentiated cell.
Question 30
In which part of Drosophila embryo do we find minimum hunchback gene expression?

Question 25