Сол	3BCS) ZOO HC 1/G 4 2700	em-6/C	3 (S
<i>(iv)</i> uterus	8+2=10		
<i>(iii)</i> fallopian tube	Describe the process of Morphallactic regeneration in Hydra with diagram.	(a)	
(ii) ovary	Or		
(i) vagina	functions of placenta. 6+4=10		
(a) In humans, fertilization occurs in	Describe the structure of human placenta with diagram. Mention the	(a)	6.
1. Choose the correct answer of the follow 1×	of hormone involved in insect metamorphosis.		
full marks for the questions.	Describe the process of complete metamorphosis in insect. Write the role	(b)	
Time : Three hours	diagram. 6+4=10		
Full Marks : 60	Describe the process of gastrulation in chick embryo development with	(a)	ы
(Developmental Biology)	2+8=10		
Paper : ZOO-HC-6016	segregation of cellular determinants ? Describe the process with diagram.		
(Honours Core)	What is the importance of asymmetric	(d)	
ZOOLOGY	0r		
2023	What is cell-cell interaction ? Describe stable cell interactions with labelled diagram. 1+9=10	(a)	4.
3 (Sem-6/CBCS) ZOO H	4		
Total number of printed pages-4	Classify stem cells based on differentiation potential.	(e)	

Contd.

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2700

6) Meroblastic cleavage is also known as

- (i) partial
- (ii) unequal holoblastic
- (iii) equal holoblastic
- (iv) superficial
- <u>(</u>) except Mesoderm gives rise to all the structures
- (ī) gonads
- (ii) circulatory system
- (iii) nervous system
- (iv) muscular system
- (d will form from In mammalian development, the embryo
- the blastocyst
- (E) the inner cell mass
- (iii) the trophectoderm
- (iv) the blastocoel
- (e) changes is termed as The process by which extracellular messages translate into intracellular
- (i) cell signalling
- (ii) cell adhesion
- (m) signal transduction
- (เข) cell transformation
- N

- S In mammalian sperm, spirally arranged mitochondria are present in
- (i) head portion
- (ii) end piece of the tail
- (iii) middle piece
- (iv) principal piece of the tail
- (g) produced by In mammalian gonads, germ cells are
- (i) only mitosis
- (ïi) only meiosis
- Both mitosis and meiosis
- (iv) Without mitosis and meiosis
- N Write short notes on :

2×4=8

- a) Pluripotent cells
- (d Amphiblastula
- <u>0</u> Radial cleavage
- (d) Importance of fate map
- ω Answer **any three** of the following : 5×3=15
- (a) Describe the process of pattern formation.
- 6) Application of Amniocentesis
- <u>(</u>) induction. Describe the regional specificity of
- (d) Describe the process of construction of fate map by natural marking.
- 3 (Sem-6/CBCS) ZOO HC 1/G ω

Contd.

3 (Sem-6/CBCS) ZOO HC 1/G