				K23U 054
Reg.	No. :		en Samereas	
Name) :	**********		
V	Im	provement) Exa (2019 and 20 CORE COURS	S – OBE – Regula mination, April 20 20 Admissions) SE IN ZOOLOGY elopmental Biolog	
Time	: 3 Hours			Max. Marks : 4
1 =	ceau quaetione (E	ach question carr	ies 8 marks) Answer	any two
		.iba	nenogenesis. Mentio	6
	parthenogenesis		ionogeneole. Weistre	Title digilillocation of
2		te map of frog, with struction of fate ma	the help of a diagrar ap.	m. Explain any three
3		ents and different in ng regenerative pr	types of regeneration ocess.	. Add a note on the
4	Describe the de	velopment of eye i	n frog.	(8×2=16
11. S	hort essay question	ons (Each question	n carries 4 marks) Ar	nswer any two .
5	Explain any four	assisted reproduc	ctive techniques.	
6	Describe the diff	erent types of blas	stula.	
7	Elaborate the sa	lient features of 4	3 hour chick embryo.	(4×2=8
III. S	hort answer quest	ions (Each questi	on carries 2 marks) A	Answer any six .
8)	What is parturition	on ?		
9)	What is teratolog	gy ? Give example	s for drugs which ac	t as teratogens.
10)	Classify egg me	mbranes.		
11)	What are the fur	actions of yolk sac	?	
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		otency and pluripo		•
12)	Differentiate totip			
12) 13)	Differentiate totip	pelled diagram of s	otency.	perm.
12) 13) 14)	Differentiate totip	pelled diagram of s	otency. structure of human sp	perm. metamorphosis ?
12) 13) 14) 15)	Differentiate totip Draw a neatly lat What are the mo What is epiboly?	pelled diagram of s rphological change	otency. structure of human sp	perm. metamorphosis ? (2×6=12)
12) 13) 14) 15) IV. Mi	Differentiate totip Draw a neatly lat What are the mo What is epiboly?	pelled diagram of support of supp	otency. structure of human sp es during amphibian	perm. metamorphosis? (2×6=12) s) Answer all.
12) 13) 14) 15) V. Mi	Differentiate totip Draw a neatly lat What are the mo What is epiboly? Itiple choice ques The period of dev	pelled diagram of s rphological change stions (Each quest velopment of foetu b) Implantatio	otency. structure of human sp es during amphibian ion carries 0.5 marks s within the mother is	perm. metamorphosis? (2×6=12) s) Answer all.
12) 13) 14) 15) IV. Mi	Differentiate totip Draw a neatly lat What are the mo What is epiboly? ultiple choice ques The period of dev a) Parturition	pelled diagram of s rphological change stions (Each quest velopment of foetu b) Implantatio	otency. structure of human sp es during amphibian ion carries 0.5 marks s within the mother is	perm. metamorphosis? (2×6=12) s) Answer all. d) Gestation
12) 13) 14) 15) V. Mi 16)	Differentiate totip Draw a neatly lat What are the mo What is epiboly? ultiple choice ques The period of dev a) Parturition Hormone which i a) Thyroxine c) hCG	pelled diagram of support of support of settions (Each quest velopment of foeture) implantation of the settion of the setting	otency. Structure of human spes during amphibian ion carries 0.5 marks s within the mother is n c) Capacitation b) Prostaglandins	perm. metamorphosis? (2×6=12) s) Answer all. d) Gestation
12) 13) 14) 15) V. Mi 16) 17)	Differentiate totip Draw a neatly lat What are the mo What is epiboly? ultiple choice ques The period of dev a) Parturition Hormone which i a) Thyroxine c) hCG Which of the follo a) Brain	pelled diagram of surphological change stions (Each quest velopment of foeture) Implantation aduces lactation wing organs is a complete by Bone	otency. structure of human spes during amphibian ion carries 0.5 marks s within the mother is n c) Capacitation b) Prostaglandins d) Prolactin lerivative of ectodern c) Kidney	perm. metamorphosis? (2×6=12) s) Answer all. d) Gestation 7 d) Heart
12) 13) 14) 15) IV. Mi 16) 17)	Differentiate totip Draw a neatly lat What are the mo What is epiboly? ultiple choice ques The period of dev a) Parturition Hormone which i a) Thyroxine c) hCG Which of the follo a) Brain	pelled diagram of surphological change stions (Each quest velopment of foeture) Implantation aduces lactation wing organs is a complete by Bone	otency. structure of human spes during amphibian ion carries 0.5 marks s within the mother is n c) Capacitation b) Prostaglandins d) Prolactin	perm. metamorphosis? (2×6=12) s) Answer all. d) Gestation 7 d) Heart

b) Macrolecithal

d) Centrolecithal

a) Gastrulation b) Notogenesis c) Neurulation d) Organogeny

b) Lens

d) Optic cup

b) Hox genes d) Gap genes

 $(8 \times 0.5 = 4)$

22) Which of the following is a primary organiser in amphibian development?

23) Which of the following genes play significant role in patterning

20) Eggs of insects are a) Telolecithal *

c) Slightly telolecithal

a) Chorda mesoderm

c) Optic vesicle

a) Homeotic genes

21) Formation of central nervous system is

anterio-posterior axis in animals?

c) Segment polarity genes