Seat	Sat	D
No.	Set	<u> </u>

B.Sc. (Semester - VI) (New) (CBCS) Examination Oct/Nov-2019

		Biotechno ANIMAL DEVE	_	•	
		e: Monday, 07-10-2019 0 AM To 10:30 AM		Max. Marks	s: 70
		ns: 1) All questions are compulsory. 2) Draw neat and labeled diagrams 3) Figures to the right indicate full i		_	
Q.1	Fill i	n the blanks by choosing correct alto An example of tumor suppressor gential) myc c) ras		•	14
	2)	cells is responsible for synthes a) Sertoli c) Hepatocytes	sis o b) d)	f testosterone. Intertitial Spermatogonial	
	3)	Frog eggs shows type of cleava) Incomplete c) Holoblastic	/age b) d)		
	4)	Weismann recognized units of hered a) Genes c) Factors	ity as b) d)		
	5)	According to Gilchrist (1968), the pro invagination". a) Ectodermal zone c) Mesodermal zone	•	tive is called "Zone of Endodermal zone Notochordal zone	
	6)	Parthenogenesis means a) development of an egg without for the second particles and the second particles are second particles. b) fusion of male & female gametes and the second particles. c) larval form transform into the adult of the second particles.	•	ration	
	7)	During metamorphosis cells are destricted a) Necrosis c) Cell quit	b)	d through process called Apoptosis Cell termination	
	8)	Centrolecithal eggs are found in a) Mammals c) Amphibians	 b) d)	Insects Aves	
	9)	 Sperm contribute to the embry a) nucleus and microtubules b) nucleus and centriole c) nucleus and centriole and riboso d) nucleus and centriole and microt 	mes	es	
	10)	Sensory organs and nervous system a) Ectoderm c) Endoderm	b)		

	11)	If ten oogonia cells undergo oogenesis eggs are produced. a) 10		
	12)	Cavity present inside the blastula is called as a) Blastocoel b) Gastrocoel c) Coelom d) Archenteron		
	13)	Cancer develops from muscular tissue is called as a) Sarcoma b) Carcinoma c) Osteoma d) Lymphoma		
	14)	The hormone involved in the metamorphosis of tadpole is a) Prolactin b) Thyroxine c) GTH d) Somatotrophin		
Q.2	A)	Answer the following questions. (Any Four) 1) Define primordial germ cells. 2) Write a note on IVF. 3) Write a note on laws of cleavage. 4) What is epiboly and emboly? 5) Write a note on stem cells.	08	
	B)	Answer the following questions. (Any Two) 1) Write a note Mosaic theory. 2) Give free radical theory of aging? 3) Capacitation of sperms	06	
Q.3	A)	Answer the following questions. (Any Two) 1) Describe fate map of frog blastula. 2) Describe process of oogenesis. 3) Explain different planes of cleavage.	08	
	B)	 Answer the following question. (Any One) 1) Describe blastulation in centrolecithal eggs. 2) Describe types of asexual reproduction with suitable examples. 	06	
Q.4	A)	 Answer the following questions. (Any Two) 1) Describe regulative and gradient theory of development. 2) Describe process of spermatogenesis. 3) Describe different types of cleavage. 		
	B)	Answer the following question. (Any One) 1) Describe blastulation in telolecithal eggs. 2) Describe metamorphosis in insects.	04	
Q.5	Ans a) b) c)	wer the following questions. (Any Two) Describe process of fertilization with neat labeled diagram. Describe process of gastrulation in chick. Describe process of regeneration in vertebrates with suitable examples.	14	