TELANGANA UNIVERSITY S.S.R. PG COLLEGE, NIZAMABAD (C.C:5029)

DEPARTMENT OF ZOOLOGY INTERNAL-II QUESTION BANK

Sub: - MGDB Name of the Candidate	Time : 30 m		Max. Marks : 20 H.T.No								
Date :		Examiner sig									
I. Multiple choice quest	ions		10 X	½= 5 N	/larks						
•	evelopment of sperm ha b. Phase of multiplic		ovum – developi rowth d.Pola	-	-						
During this phase,a. Cytokinesis	the nuclear envelope be b. S phase c. Ana		ohase	(D)						
100 secondary spe a. 50 ova, 100 sper	nber of ova & sperms the rmatocytes during game rms b.100 ova, 10 erms d. 200 ova, 2	e to genesis is 00 sperms	from 100 secor	ndary od (C	•						
distint in	ed primordial germ cells b. Multiplication pha	-		(B)						
a. Gamets are imm	a. Gamets are immune to diseases b. Germs cann't attack gamets c. Germplasm is segregated easily & not subjected to diseases from which somatic cells may										
6. The amount of yol	k & its distribution are cl b. Clevage pattern	nanged in the egg, thi		•) meres						
7. Haemoendothelial a. Rat & Rabit	placenta takes place in b. Camel & deer	c. Goat & cow	d. Ape & man	(A)						
8. Atretic follicles occ a. Liver b. T	ur in estis c. Thymus	d. Ovary		(D)						
	reates female gametes, content of a female's ga s, 23 Chromatids	=	ldhood	(C	erty. This)						

c. 46 Chromosomes, 92 chromotids d. 46 chromosomes, 46 Chromatids

	_	niques <u>are</u> i ype						(А)	
;	a. 4 Types	b. 3 Ty	pes	c. 2 Ty	pes	d. 5 Ty	pes				
	How many typ a. Amictic	oes of sexes are b. mictic	e presen c. Dimi		ifers d A & I	3		(С)	
	An example fo a. Platyhelmin	or complete pa othes	rthenog b.Rotif		c. Was	ps	d. All	(В)	
;	Honey bees ar a. Alternative d. Cycle parth		vhat typ nplete p	•	_		c. Incomplete parthe	•	C gene) sis	
14. During cleaveage the blastomeres do not move, so that the general shape of the embryo does											
	not change ex	cept for the fo	rmation	of a ca	vity call		in the interior	(В)	
;	a.Gastrocoel	b. Blas	tocoel		c. Blast	tula	d. Morula				
	Cleavage occu a. Fertilized er	ırs in mbryo b. Zygo	ote	c. Ferti	lized eg	gg	d. A b & c	(В)	
16.	An example fo	or determinate	cleavag	ge				(D)	
;	a. Tunicates	b. Mol	luscs	c. Anne	elids	d) All					
	Cephalopods a	are showing wl b. Biradial	hat type c. Radi		vage pa d. Cycl			(В)	
	Which animals	s are shows ep b. Echinodern		type G c. Nem		ion	d.Amphibians	(D)	
19.	Microphthami	ia						(В)	
	a. Big eye	b. Small eye		c. Insti	nct eye		d. Compound eye	`	_	,	
20. How many germ layers appears in the amphioxus early development of embryo						(С)			
	a. 1	b. 2	c. 3	•	d.4	•		•		•	

II. Fill in the Blanks 10 X ½ = 5 Marks

- 1. Southern blotting technique is also called as southern blot hybridization
- 2. Northern blotting Technique is also considered as **northern blot hybridization**
- 3. The process of **spermatogenesis** occurs in the male testes
- 4. The germinal epithelium cells are separated by **Sertoil cells**
- 5. Fertilizin is a **Glyo protein**

- 6. Anti fertilizing is a **Acid protein**
- 7. CNS centrol Nervous system
- 8. In insects metamorphosis is controlled by **Hormones**
- 9. Thyroxin Hormone plays an important role in the metamorphosis of life cycle of amphibians
- 10. TSH Thyroid stimulatin hormone
- 11. Archenteron appears in the **Gastrula stage of embryonic development**
- 12. Oncogens are Mutated genes
- 13. Amphitoky means A type of parthogenesis
- 14. Based on yolk content, human eggs (ova) are Alecithal
- 15. Carbon particle marking staining method used by **developmental biology**
- 16. In the insect, Metamorphosis process adult is developing through **Pupa stage**
- 17. Which cells are shows mitosis division diploid somatic cells
- 18. Division of nucleate cell consists of two distinct but integrated activities, nuclear division is called Karyokinesis and cytokinesis
- 19. Dioecious Having the Male & Female reproductive organs in separate individuals
- 20. In the mammals, in the early development stage of embroyo, the PGC cells are arises Around

the time of gastrulation

III. One word answers

5X 1 = 5 Marks

- 1. IRP Intromural research programe
- 2. TRF Thyroid releasing factor
- 3. RPE Retinal pigment epithelium
- 4. Vitellogensis is the process of yolk protein formation in the oocytes of non mammalian vertebrates during sexual maturation.
- 5. Northern Blotting It is a Technique used to detect RNA fragements.
- 6. Types of cleavage
- A. Two main types of cleavage
- 7. Southern blot definition
- A. It is a technique used to detect DNA fragements.
- 8. What is cosmid vector
- A. Type of cloning vector that combines plasmids and bacteriophage lambda vectors

- 9. Morphogenetic movement
- A. This movement during embryonic development that leads to the formation of tissues & organs
- 10. Parthenogenesis
- A. Is a form of asexual reproduction where a new individual develops from an unferticlized egg, bypassing the need for sperm and sexual reproduction.

IV. Assignment 1X 5 = 5 Marks