Total No. of Printed Pages: 2

SUBJECT CODE NO: - FF-6661 FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Sem-III) (Zoology) Examination January-2023 B - Animal Physiology-I ZOO-311

[Tim	e: 3:00	Hours]		A.			[Max. Marks:80
		Plea	ase check w	hether you ha	ve got the righ	nt question paper	r. S
N. B			1) Part A i	is compulsory	T 29		
			2) Attemp	t any five que	stion from Par	rt B	
			3) Draw n	eat diagram w	hen ever nece	essary	
				Par	rt –A	T 3	
					7) 30°		
Q1			(7	e choice quest			20
	1)			e crab is			
			triangular	b) Broad ro		The 30r	
		c) Slender	ST	d) None of	these		
	120 X	D 0. "					83 D
	(2)	0 y =			. 45	atory tree is perf	700
		a) Molluso	za b) Echi	nodermata (z) Arthropoda	d) protochorda	ata
	23)	Gall midge	s possesses				CAT.
	09,2)	,0)	- 0-7		paedogenesis	c) apodictic	d) cyclic
		u) Lai vai	pacaogenesi	s o) r upui	paedogenesis	c) apodictic	d) Cyclic
	4)	In echinode	erms the	is a large fl	luid filled cavi	ity in which dige	estive tube and
	20		re suspende				
		a) Pyloric	(*	b) central	disc		
<i>(</i>)		4/7		d) none of the	hese		
D.	5)	Which horn	none is resp	onsible for in	sect metamor	phosis	
		a) Ecdyste	eroids and J	Juvenile horm	ones		
		b) Thyroid	d hormone				
	Y	c) Gonad	stimulating	hormone			
(2) (2)		d) All of the	he these				
	6)		are found i		5		
		a) Eye of			e of insect		
OF		c) eye of ec	hinoderms	d) none	of these		
	(3)			tch to produce		\ _11 _£41	_
		a) Protozo	ea b) Na	auplius larva	c) Mysis d) all of the above	e

	a) Metanephridia b) Nephridia c) Green gland d) protonephridia						
	9) Theare neurosecretory organ that surround the crustacean hearta) Anal organb) pericardial organc) anterior organd) none of these	ř,					
	 10) Open circulatory system is present in a) Annelids and chordates b) annelids and arthropods c) arthropods and chordates d) arthropods and Mollusks 						
	Part –B	5					
	Attempt any five						
Q2	Write osmotic and ionic regulation of crustacea.	12					
Q3	Explain structure and function of photoreceptors, mechanoreceptors and chemoreceptors in insects.						
Q4	Describe sexual development and maturation in annelids						
Q5	Give an account of structural properties and functions of respiratory pigment in Mollusca						
Q6	Explain coelomic fluid and coelomocytes in Echinodermata						
Q7	Describe types of reproduction and hormonal control in crustacea.	12					
Q8	Write notes on (any two) a) Pericardial organ in crustacea b) Regeneration in Echinoderms c) Excretion in Mollusca	12					

8) The excretory organ of Mollusca are -