Q.P. Code :07568

		[Time: 2½ Hours]	[Marks:60]
	N	Please check whether you have got the right question paper. 1. Attempt all questions. 2. Figures to the right indicate full marks. 3. Draw neat and labelled diagrams wherever necessary.	
Q.1	Answer a	ny two questions from the following:	
•	a) D b) W c) E	iscuss the relationship between animal size and metabolism. Vrite an account on respiratory pigments. Explain ammonia toxicity. Iscuss detoxification pathways during metamorphosis.	06 06 06 06
Q.2	Answer a	ny two questions from the following:	S. C. A.
	b) D c) G	Vith the help of suitable examples explain respiratory evaporation. escribe the structure and functions of contracticle vacuole and coelomoducts. ive an account of the structure of the vertebrate nephron. explain blood replacement in view of human perspective.	06 06 06 06
Q.3	Answer a	ny two questions from the following:	
	b. E	riefly explain the role of maternal DNA in reproduction. xplain the endocrine regulation of reproduction in insects. xplain interaction of steroid hormones and nervous tissue is important. escribe the various methods of treatment for infertility.	06 06 06 06
Q.4	Answer a	ny two questions from the following:	
	b) W c) E	escribe the endocrine system in lower invertebrates. Vrite an account on the G-E-P cells with respect to regulation of hormones. Explain the physiology of chemoreception. Explain the physiological effectors in bioluminescent systems.	06 06 06 06
Q.5	Answer a	ny two questions from the following:	
	b) D c) E	xplain oxygen consumption and RQ during hibernation. escribe the implications of kidney stones in the health of human being. xplain the evolution of gametes. unctioning of electric organs.	06 06 06 06

1