This question paper contai	ins 2 printed pages. Your Roll No.	***************************************	
Sl. No. of Ques. Paper Unique Paper Code Name of Paper Name of Course Semester Duration Maximum Marks	: 1430 : 2581303 : Human Physiology and Anatomy II : B.Sc. (Hons.) Biomedical Sciences (FYUP) : III : 3 hours : 75 (Write your Roll No. on the top immediately on receipt of this question paper.) tempt five questions in all. Question No. 1 is compulsory. Subparts of the questions should be attempted together. Draw illustrations or diagrams wherever necessary.		
1. (a) Differentia			
, ,	cal and juxtamedullary nephrons		
• • •	niogenesis and Spermatogenesis.	$1.5 \times 2 = 3$	
(b) Define:			
` '	citation		
(ii) Calc	ification	:	
(iii) End	diastolic volume	1×4=4	
(iv) Tida	d volume.	1×4=4	
(c) Explain /	Give reasons / Justify:		
(i) The	re is no foolproof contraceptive.		
· /	ctures are healable.		
	nph is the middle man of the body.	249	
(iv) Wh	at if there is negative feedback absent in human body.	2×4=8	
(d) Give the	full forms of the following:		
(i) AC	CTH		

 $1\times4=4$

P. T. O.

(ii) IRC

(iii) Hb

2. Write short notes on:

(iv) Cu-T.

	(a)	Oogenesis	
	(1	b) .	Atherosclerosis	
	(0	c)]	Bronchitis	
	(0	i)]	Hormones of Hypothalamus.	3,4,3,4
3	. (a	a)]	Draw and explain the cardiac cycle.	
	(b		Give the neurogenic control and regulation of respiration.	5
	(c	:) \	What is Vasarecta and how does it help in urine formation?	5 4
4.	(a) (it	Give in detail the structure of a compact bone. Explain how the structure is suite	
	(b)) V	What is Inulin? Why is clearance of Inulin a measure of GFR? Why can cre	
	(c)		Vhy does cartilage heal the slowest?	4
	(d)		What is PCOD? How does it cause female infertility?	3
5.	(a)	D	raw haemoglobin and O ₂ dissociation curve and explain its coordinates.	_
	(b)	H	ow does the Renin-Aldosterone-Angiotensin system regulate blood pressure?	5 .
	(c)	W	hat is osteoporosis and how is it different from gout?	4
	(d)	A 20	70-kg adult patient is artificially ventilated by a machine during surgery at a rate breaths/min and a tidal volume of 250 ml/breath. Assuming a normal anatoral space of 150 ml, is this patient receiving an adequate alveolar ventilation?	3 te of omic 2
6.	(a)	Ho vit	ow is calcium homeostasis in blood maintained by the interplay of parathyroid amin D_3 ?	and
	(b)	Gi	ve one word for:	5
		(i)	The phase of heart contraction	
		(ii)		
		(iii) Joint between humerus and pelvic girdle	٠
	,	(iv)		
		(v)	Accumulation of fluid in extracellular spaces.	"
	(c)	Cla	ssify different kinds of joints.	5
				4