End Semester Examination, 2021 Semester - III Human Physiology

PAPER - PHY. 302 (U25 & U26)Full Marks: 40 (20+20)

Time: 2 Hours

UNIT - 25

ENDOCRINOLOGY & REPRODUCTIVE PHYSIOLOGY

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1.	Answer any two of the following:-	2x2=4	
a)	State the principle of the pregnancy test u	usually	
	perfomed.	2	
b)	What is luteolysis?	2	
c)	State the importance of HRE.	2	
d)	Mention the role of seytoli cells.	2	
2.	Answer any two of the following:-	2x2=4	
a)	"cAMP acts as a second messenger"—Justi	ify. 4	
b)	Describe the chemistry involved in the move	vement	
	of the sperm towards the ovum.	4	
c)	What is the importance of LH-surge?	4	
d)	Give the classification of hormones with	an ex-	
	ample of each.	4	
3.	Answer any one of the following:-	1x8=8	
a)	Describe the process of spematogenesis	with a	
	suitable diagram.	6+2	
b)	Describe the role of estrogen and progester	rone in	

	UNIT - 26		
HUMAN IMMUNE SYSTEM			
1.	Answer any two from the following:-	2x2=4	
a)	What is isotypes of antibodies?	2	
b)	How is agglutination different from precip	oitation?	
		2	
c)	Give the flow chart of the production of mo	noclonal	
	antibody.	2	
d)	What is autograft and allograft?	1+1	
2.	Answer any two from the following:-	2x4=8	
a)	Describe the structure of the MHC that	plays an	
	important role in the exogenous pathway	of anti-	
	gen presentation.	4	
b)	Give two important application of ELISA.	4	
c)	Write a brief note on graft rejection.	4	
d)	Describe the biological properties of the fe	our sub-	
	types of IgG.	4	
3.	Answer any one from the following:-	1x8=8	
a)	Describe the two important scientific inter	ventions	
	that led to the discovery of the antibody s	structure	
	with suitable diagrams.	6+2	
b)	Describe the process of Type-I Hypersensiti	vity with	
	suitable diagrams.	6+2	

the implantation process. What is decidualization?

6+2