Birla Institute of Technology and Science, Pilani, Pilani-Campus, Rajasthan Comprehensive-Examination

Course No.: PHA F214 Course Title: Anatomy, Physiology and Hygiene Max. Marks: 40 (26+14) Date: 15/07/2023	Second Sem. 2022-2023 Closed Book Max. Time: 180 Minutes	
Be specific and write legibly Part-A: Closed Book	Max marks: 26: Time: 80 Min	
Q-1: Explain the followings: i) Pheochromocytoma ii) Paroxisomes and lysosomes iv) Annuloplasty and Aneurysm	iii) Condyloid and Pivot joints	
Q-2: What are different hormones synthesized by adrenal glands?		
Q-3: What do you mean by Conduction and neural deafness?		
Q-4: Discuss the functions of different lymphocytes?		
Q-5: Eye is one of the most important but complex sensor the eye allow to adjust the light and perceive objects arou papulation.a)How do lens of eye be adjusted in near and far visior b) How, cataract and Glaucoma occur in older age?	nd us. The colour of eye may be vary in	
Q-6: Which glial cell of PNS and CNS wrapped the neuron with myelin sheath and why?		
Q-7: Discuss with example, how does intestinal hormones contributes in digestion?		
Q-8: What do you mean by bomarkers?Draw a representative-ECG for MI and Brugada syndrome.		
Q-9: What are the functions of different uterus wall?	1.5 M	
Q-10:Comments on the followings with proper justification.a) The symptom i.e swelling of neck occured in both Grabb) Mature sperm is produced by testes in male?c) Pineal gland -prevent the onset of puberty before the application.d) Cartilages heal slowly as compared to smooth muscle?	ve and Goiter?	

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Part-B: Open Book	Max marks: 14 (16.5):	Time: 80 M	in
Q-1: Comments on the following:		5.01	Μ
a) Hemophilia is more common in male?			
b) Somatic cells are diploid but why are human gametes haploid instead of diploid?			
c) Epinephrine is the main sympathetic neurotransmitter in brain?			
d) Expiration is a passive process in normal breathing?			
e) Papillary muscle -dysfunction or rupture	may resulted MI?		
Q-2: If you are studying, which part of eye is responsible to allow for sharp and central vision? 1.0 M			
Q-3: a) As the person age grow, the lens become	opaque, why?	2.01	М
b) Which part of the eye and how eye color b			
	C		
Q-4: Explain the following with suitable reasoning	ng:	6.01	Μ
1) If you will take a drop of Plasma and serum along with whole blood from pulmonary vein, placed			
them separately on three slides. What will you ob		ng?	
ii)Pain killer-Aspirin not advised while PCM u			
iii) Why you need to maintain isotonocity of a pa			
iv) Why does swelling of neck occur in iodine de		6 1	
v) When you traveling by car or bus in higher altitude like hill area, you may feel squeezing pressure in your ear, why? How does your body manage it?			
vi) Why, some time you feel the pain is sharp and localized while sometime -very dull and not localized?			
in the solution of the pair is sharp and rocalized while solution of youry duit and not rocalized.			
Q-5: Do interpret the below given ECG of a patie	ent (PR, ORS, HR and T wa	ve). Based on the ECG	
tracing, What might be the condition?		2.5]	М
<i>0, 0</i>			


