Birla Institute of Technology and Science, Pilani, Pilani-Campus, Rajasthan Mid-Semester-Examination: Second Sem. 2022-2023

Course No.: PHA F214	
Course Title: Anatomy, Physiology and Hygiene	
Max. Marks: 32	Closed Book
Date: 29/04/23	Duration: 90 Minutes
Note: <i>Give answers in points and use flow charts wherever possible for substantiation</i>	<u> </u>
Q-1: Explain the following with the help of a suitable example wherever deemed necessary:a) Holocrine and Apocrine Glands	5.0 M
b) Chromosomes and chromatin	
c) Confusing epithelial tissue?	
Q-2:How do female gonadal hormones regulate, synthesize by glands, and work in the body (rece	
of suitable examples.	3.0 M
O_2 . Placed is around 5 liters that is simpleted by the beaut and during an emergency if needed 1	blood can be transfused Dut
Q-3: Blood is around 5 liters that is circulated by the heart and during an emergency if needed, blood will be given based on the blood group.	6.0 M
a) What do you mean by blood ABO System? Who invented it?	0.0 14
b) If your blood group is AB + , how will you confirm it?	
c) How does Aplatic anemia differ from Pernicious anemia?	
d) Why does hemoglobin and hematocrit value decrease during pregnancy?	
Q-4: Discuss the clotting process (Extrinsic and Intrinsic pathways). Give an example of anticogu	2 0
used in cloting diseases.	2.5 M
Q-5:a)Why does steroids not advised to be stopped suddenly and tapering of dose is advised? b) How does stress in the younger generation increase the risk of cardiac disorders?	3.0 M
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Q-6: How do hormones and bone cells be involved in Calcium regulation in your body?	2.0 M
Q-7: Comments on the following with the help of suitable reasoning	7.5 M
a) Why do viruses not use erythrocytes as host cells?	,
b) How does your body adjust to breathing difficulty at higher altitudes?	
c) Renal failure patients have risk of anemia?	
d) Ganglia and plexus are absent in the autonomic nervous system?	
e) Unmyelinated neurons have faster conduction?	
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Q-8: Why pancreas is called heterocrine/ composite gland?	1.0 M
Q-9:Write the steps involved in the sliding filament theory of muscle contraction.	2.0 M
Q-10:Identify, in which organ they present and which nervous system regulates their activity?	2.0 M

