Date of issue :	Centre :				
Sup. Sign. :	Seat No. :				
ND-2006000101020001-O Seat No First Year M. B. S. Examination January - 2022					
Physiology : Paper - 1					
Time : Hours]		[Total Marks : 20			
Instruction :					
नीचे इक्षांचेल → निकानीचाणी विभागे उत्तरवर्धी पर अव Fillup strictly the details of → signs on your ans Name of the Examination : First Year M. B. B. S. Name of the Subject : Physiology : Paper - 1 Subject Code No. :	144 4441.	Student's Signature			
Section A	MCQs	20 marks			
The phospholipid seen mostly on the a) Phospatidylethanolamine c) Phosphatidylcholine	b)	membrane is Phosphatidylserine Phosphatidylinositol			
 Fluidity of the lipid bilayer cell mem membrane concentration of a) the unsaturated fatty acids c) the saturated fatty acids 	b) tran	Decreasing the cell			
Hemostasis refers to the a) unwavering control of a physiolog b) maintaining a stable internal envir c) maintaining a stable external envir d) coagulation of blood	onment				
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Blood does not coagulate inside the body due to the presence of a) Fibrin
 b) Heparin
 c) Hemoglobin
 d) Thromboplastin

5. The region of the sarcomere which contains thick filaments is

a) M Line

b) Z Line

c) I Band

d) A Band

6. In skeletal muscle myosin head binding site on actin is covered by

a) Troponin I

b) Tropomyosin

c) Troponin C

d) Titin

7. During the contraction of a skeletal muscle fiber, the actin and myosin filaments slide past each other. Which of the following represents expected changes in the widths of I bands and A-bands during the contraction process?

I Band Width
a. Increase
b. Decrease
c. No Change
d. Decrease
No Change
No Change
No Change

- Smooth muscle differs from skeletal muscle by
 - a) Highly developed sarcoplasmic reticulum
 - b) Lesser duration of contraction
 - c) Role of extracellular calcium in contraction
 - d) More number of mitochondria
- 9. In rapid repolarization of ventricular muscle fibres
 - a) Slow calcium channels close & slow potassium channels open
 - b) Fast sodium channels close & fast potassium channels open
 - e) Slow calcium channels open & fast potassium channels close
 - d) Fast sodium channels close & fast calcium channels open
- Which of the following pathway begins at the anterior portion of SA bode and ends at AV node
 - a) Intermodal pathway of Wenkebach
 - b) Intermodal pathway of Bachman
 - c) Internodal pathway of Thorel
 - d) Bundle of Kent
- 11. Warm and red skin is seen in
 - a) Constricted arterioles and capillaries
 - b) Dilated arterioles and capillaries
 - c) Constricted arterioles and capillaries
 - d) Only dilated capillaries

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	During which phase of current is observed a) Initial rapid repolarisa b) Plateau c) Final repolarisation d) Depolarisation		tial, the inward rectifie	er potassium
	Which of the following of a) Liver c) Pancreas	organ disorder is least	t likely to result in steate b) Small Intestine d) stomach	orrhoea
14.	The mitotically active, us a) Brunner's gland c) payer's patches	ndifferentiated cells t	hat replenish Enterocyt b) Crypts of Lieberkt d) Gut associated lyn	uhn
15.	Intrinsic factor of Castle a) Chief cells	is secreted by b) Parietal cells	c) G cells	d) S cells
16.	Which of the following and increasing acid se a) Gastrin c) Bile salts		alcer by damaging the n b) H. Pylori d) Epidermal grow	
	. Most of the work during a) Diaphragm c) Internal intercostals m Surfactant helps to		done by b) External intered d) Sternocleidom	
1	a) Lower the surface tens b) Bring about the closur c) Relax the bronchial w d) Increase the work of b	re of the alveoli ail		
	Most of the resistance to a) Efferent arterioles c) Peritutbular capillarie		is offered by b) afferent ar d) renal vei	
	The first micturition refle a) 50 ml b)	ex is initiated at the t	urine volume of in c) 250 ml	urinary bladder d) 350 ml
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