Chapter Seven: Human Physiology: Locomotion and Movement of Organ

Creative Essay Type

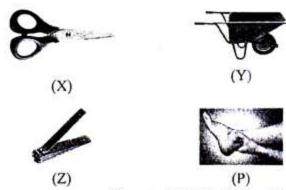
1.	٠	The	longest,	strongest	and	heaviest	bone	of	human
ske	elet	on is	engaged	with the p	orodu	ction of l	RBC a	107	7.

[Millennium Scholastic School & College, Bogura]

- a. What do you mean by Robin Hood molecule?
- b. Write down the functions of hypothalamus.
- Write down the characteristics or anatomical structure of that bone.
- d. What does the stem indicate? Explain with different part of that bone.

Ans: See HSC EV Biology 2nd Paper 7th Chapter Note Ques. No. 6 of Answer Paper.

2. >



[Mymensingh Girls' Cadet College, Mymensingh]

- a. What is periosteum?
- b. What do you mean by haversian system?
- Explain the action of skeletal system as per stem (X), (Y) and (Z).
- d. Describe the symptoms and treatment of the problem in the picture (P).

Ans: See HSC EV Biology 2nd Paper 7th Chapter Note Ques. No. 7 of Answer Paper.

3. ► In a race competition Rony fall down after 430 meter as his left leg was stuck in a hole. He was admitted to hospital and the doctor found a fracture in the compact part of his Femur.

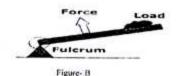
[Feni Girls' Cadet College, Feni]

- a. What is Helicotrema?
- b. What do you mean by Tropic hormone?
- c. Describe the structural unit or system of the fractured part of Rony.
- d. In the mentioned competition which types of lever were used by Rony? Discuss about it. 4

Ans: See HSC EV Biology 2nd Paper 7th Chapter Note Ques. No. 11 of Answer Paper.

4. ▶





- a. What is myology?
- b. Which muscle is called skeletal muscle and why?
 Explain.
- Explain the structure of the muscle which consists of A-marked organ.
- d. Analyze the lever of our body which is similar to Figure-B.

Ans: See HSCEV Biology 2nd Paper 7th Chapter Note Ques. No. 14 of Answer Paper.

Question No. a (Knowledge based)

Ques-1. What is fasiculus? [All. B.18]

Ans: Bundle of cylindrical muscle fibre of voluntary muscle is fasiculus.

Ques-2. What is involuntary muscle? [R.B. 17]

Ans: The muscle which is not transverse liner and which cannot be controlled by human as their wish, is called involuntary muscle.

Ques-3. What is sinusitis? [C.B. 17]

Ans: The inflammation in the mucous membrane of the paranasal sinus that is inflected by fungus, virus and bacteria is called sinusitis.

▶ Question No. b (Comprehension based)

Ques-1. Which cartilage is strong as bone and why? [All. B.18]

Ans: Soft bones are called cartilage. There are four types of cartilages and calcified cartilage is one of them. Calcified cartilage is as strong as bone. Because calcium carbonate is found hugely in the matrix of it. As a result, these are not as soft as other cartilages. This cartilage is found in the head of humerus and femar. The existing calcium carbonate in it protects the bones by being strong.

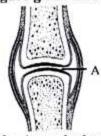
Ques-2. What do you understand by Haversian system? [R.B. 17]

Ans: The structural unit of solid or rigid bone is called haversian system. The matrix of rigid bones are organized into some layers (5-15). The layers are called lamellae. Lamellae is circularly arranged around an evident canal. This central canal is haversian canal. Each haversian canal and the lamellae around it, are combined to constitute a haversian system.

Ans: of a locat syste pore: abou Ques Ans:	The label ed le more s. To the ways 1-4.	ere are some small peorohita which is considered with the constitutes with the che sensory cell in a ter quality from wath what do you mean e continuous transfer	ores onne e late cor it re er w by c	f the lateral line. [D] in a row on the both cted to a long shaft eral line or the later inbination of this shape ceive chemical sensitives. evarian cycle? [C.B.] tion that gradually of the ovary is called	that is that is al line naft or sitivity	9.	WI	Forelimb Pectoral Girdle Pelvic Girdle hich type of cartil nur and head of t Hyaline Yellow fibrous White fibrous Calcified	age is	Hind limb there in the head merus?[Dj.B15]	of the
	_				District Control	10.	In	which organ of H	uman	Skeletal System 3	3 rd
cycle. As a result, follicle is established, ovulation starts and corpus luteum increases. Creative Multiple Choice							class lever is functional? [Cig.B15] (a) Movement of elbow (b) Movement of ankle (c) Movement of head				
1.	н	w many skalatons s	ro t	here in Avial Skelet	on?		(I)	Movement of wa			0
1.	How many skeletons are there in Axial Skeleton? [D.B17]					11.	How many facial bones are found in human?			are 2000	
	(a)	50	(P)	60	•			Board-18] 08	(A)	12	
_	©	70	(d)	80	0		©	14	(I)	33	G
2.		hich one is the Hyal				12.	6 ii				•
	(a)	Ear		Uvula	_	12.	12. Which is the paired cranial bones of following? [R.B., Dj.B., C.B., Ctg.B., S.B., J				-181
2	© Respiratory Tract						200	Sphenoid		Occipital	.01
3.		hich one looks like	1			7		Frontal		Parietal	0
	(a)	Tibia	200	Fibula		13.	-	w many bones ar			_
(4)	_	Femur	@	200	O	13.	(a)	12	டு	14	
4.		w many Thoracic v		brae are there in			0	16	(I)	22	0
	Human Body?/Ctg.B17/					14.				a typical vertebr	
	(e)	7	(b)	5	6	14.		Centrum	ouj o	a typical vertebr	
_					U		8333	Neural tube			
5.	What type of cartilage is there in ear and respiratory tract?[J.B17]						-	Neural arch			
		Hyaline	25.0	Yellow fibrous			(1)	Transverse Proces	SS		0
	(C)	White fibrous		15.	How many pairs of bones are there in the			573			
6.	How many bones form the Thoracic cage?						Th	oracic cage?			
	_		6	[D.B., S	B-15]		(a)	10		11	_
	(a)	21		25	•		©	12		13	О
	2,750	31	3.55	35	0	16.		nich one the bone			
7.		진짜하는 하게 하는 아이들이 하나 나는 아이 아이스 모양이	ge is	there in respirator	y		0.00	Humerus	1000	Radius	-
		vellen Ghann	0	Ulvalina		500257		Ulna		Femur	0
		Yellow fibrous White fibrous	88225	Hyaline Calcified	0	17.				e in the Thoracic	cage
	Where is the Glenoid Cavity in the Human				w			the human body?		25	
8.			Cav	ity in the Human			(a)	24		25	
	DO	dy?/Dj.B15/					0	33	(0)	60	0

18.	Which type of cartil vertebrae?	age is there in between 2				en pairs of coastal notches.			
		White fibrous			Which is correct				
		Winte Horous Hyaline	0	-) iⅈ	ⓑ i & iii			
12/20				@) ii & iii		_		
19.		aracter of the firm conne	ctive	26. Parts of pelvic girdle are — [R.B., Dj.B., C.B., Ctg.B.,					
	Constant	ım:		S.	B., J.B., B.B18]				
		/alkmonn's canal		i.	Ileum				
		Sammilian configuration			. Pubis				
	© This consists of c		0	1.54	i. Ischium	11 (W) (W) (W)			
	d This consists of n	•	U			following is correct?			
20.		vertebra of the cervical			i and ii				
	region?	© Ct		@	ii and iii	i, ii and iii	9		
	Atlas	Centrum November 1 and 1	_	27. T	he character of	synovial joint is-			
	© Axis	Neural arch	O	i.	The bones are	connected to each other dir	rectly.		
21.	Which cartilage's m			ii	ii. There are connecting cartilages in the bone ends.				
	abundance of Calcin	THE RESERVE OF THE PARTY OF THE		ii	i. There are synd	ovial fluids in the cavity.			
	Hyaline cartilage			v	Vhich is correct	?			
	Yellow fibrous ca	0.000		(a)	i & ii				
	© White fibrous car		-	C	ii & iii	@ i, ii & iii	9		
	Calcified cartilag		0	28. The function of cartilage is-					
22.		of which region? [D.B18]		20.		e pressure of different organ	15.		
	Thoracic Thoracic	⑤ Cervical) ii		bones from friction.			
	© Lumbar	Sacral	0	133	i. To give the or				
23.	Which information i	s appropriate for cardiac	7		Which is correct	- Total			
	muscle?	% S DE			i & ii	⊚ i & iii			
		ontracted, other cells are		(0		① i, ii & iii	15		
	relaxed.			Read the given part below and answer the Q- 29 & 30					
		incomplete and indefinite.							
	iii. It has no structura	l syncytium.				e movement of some joints			
	Which is correct?			200.000	하다 없는 그 그 아이를 하는 것이 없는 것이 없다.	first joint has slightly move more than the first one and			
	3 i & ii		2022		ne has moved fro		tile		
	© ii & iii		0			e of Sabbir's 3 rd joint?			
24.	What is the characte	er of Atlas?		27.00	and the second second second	Shoulder joint			
	i. Centrum is large i	n shape.		(1)		14 × 30 10 14 10 10 10 10 10 10 10 10 10 10 10 10 10	S.		
	ii. Odontoid process		(C						
	iii. The transverse for	ramen is present.				re of the joints of S	abbir's		
	Which is correct?			o	bservation —	to the contribution of a state of the contribution of the			
	@ iⅈ	⊕ ii		i.	-	ave teeth like ends.			
	@ iii	(d) i, ii & iii	9	ii		of articular capsule.	50		
25.	In the upper part of	xiphoid process —				of mucopolysaccharide flui	id.		
	i. There is one supra				Which is correct				
	ii. There are two clay			933) iⅈ				
				@) ii & iii	(d) i, ii & iii	39		

Observe the figure given below and answer Q. 31 & 32



31. What is the A marked part?

- a Bone marrow
- Synovial bone
- © Synovial cavity
- d Periosteum

32. The character of the mentioned figure-

- i. This is surrounded by anarticular capsule.
- ii. This is not separated from theperiosteum.
- iii. This is connected by dense fibrous tissue.

Which is correct?

- @ i&ii
- 6 i & iii
- © ii & iii
- @ i, ii & iii

Answer the Q. 33 & 34 according to the mentioned figure.



33. What is the Y marked part in the figure?

- a Lever arm
- (b) Pivot
- © Attempt
- d Load

34. What is the role of X marked part in the figure?

- i. It creates folding in the knee joint.
- ii. It elevates the ankle.
- iii. It maintains the balance of the body.

Which is correct?

- @ i & ii
- ⓑ i & iii
- © ii & iii
- @ i, ii & iii

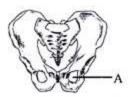
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Answer the Q.35 & 36 by observing the mentioned

figure -

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35. What is the name of A marked part in the figure?

- Pubic Symphysis
- Glenoid Cavity
- © Acetabulum
- Obturator Foramen

36. The function of mentioned part of figure?

- i. To support the lower part of gut.
- ii. To articulate with the head of the Femur.
- iii. To support the bones of forelimb.

Which is correct?

- @ i & ii
- **Б іі & ііі**
- © i & iii
- @ i, ii & iii