Code No.: 2604

 $[6 \times 5 = 30]$ 

## HUMAN ANATOMY AND PHYSIOLOGY

Time: 3:00 Hours] [Maximum Marks: 80

## NOTES:

- i) Attempt all questions.
- Students are advised to specially check the Numerical Data of question paper in both versions. If there is any ii) difference in Hindi Translation of any question, the students should answer the question according to the English
- Use of Pager and Mobile Phone by the students is not allowed. iii)

Answer any six questions. Each question carries equal marks.

## PART-A

[2+3=5] Draw a neat and labelled diagram of cell. Describe the structure and functions of mitochondria. Q1) [5] Describe the composition and functions of blood. Q3) Draw a neat and labelled diagram of L.S. of heart. Describe the structure and functions of heart. What are endocrine glands? Describe the various secretions of pituitary gland.

- Draw a neat and labelled diagram of urinary system. Discuss the physiology of urine formation. [2+3=5]
- O6) Discuss the structure and functions of liver. How the digestion of carbohydrates, proteins and fats takes place in our [2+3=5] body?
- Q7) Describe the physiology of muscle contraction. What is Rh factor? [3+2=5]

Answer any ten questions. Each question carries equal marks.

 $|10 \times 3 = 30|$ 

- Discuss the scope of Anatomy and physiology. [3]
- Describe the disorders of joints. ()2) [3]
- Q3) Describe the mechanism of blood coagulation. [3]

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Q4)	Writ	e a note on spleen.			2604
Q5)	Desc	ribe the mechanism of respiration.			[3]
Q6)	Write	about blood groups.			[3]
Q7)	Disci	ass on reflex actions.			[3]
Q8)	Write	in short about any three of the following:			[3×1=3]
	a)	Glaucoma.			
	b)	Hemopoiesis			
	c)	Micturition.			
	d)	Menopause.			
	e)	Hypertension.			
Q9)	Write	the fullform of any three of the following:			[3×1=3]
	a)	RBC.			
	b)	ANS.			
	c)	TSH.			
	d)	GIT.			
Q10)		ss the physiology of menstruation.	0	120	3.69
QII	) Write	e about ball and socket joint with example.	PART	EC	CD. [3]
		noice questions/Fill-in the blanks. Answer all ques		cach question carries equal marks	13A.
Mu	ltiple cl	05		cach question carries equal marks	[3] [20 × 1 = 20]
Mu	itiple cl	noice questions/Fill-in the blanks. Answer all ques		Cach question carries equal marks	[3] [20 × 1 = 20]
Mu Mu	itiple cl	noice questions/Fill-in the blanks. Answer all ques		each question carries equal marks.	[3] [20 × 1 = 20]
Mu Mu	tiple cl	hoice questions/Fill-in the blanks. Answer all questions.  Thoice Questions.  an skeleton is made of a total of:	tions. F	C.V3/10.	[3] [20 × 1 = 20]
Mul Mul Q1)	tiple cl	hoice questions/Fill-in the blanks. Answer all questions.  Answer all questions.  an skeleton is made of a total of:  201 bones  126 bones	b)	206 bones 198 bones	[3] [20 × 1 = 20]
Mu Mu	Hum a) c)	hoice Questions.  Answer all questions.  Answer all questions.  an skeleton is made of a total of:  201 bones  126 bones  th one of the following blood groups is considered.	b)	206 bones 198 bones	[3] [20 × 1 = 20]
Mul Mul Q1)	Hum a) c) Whice	hoice Questions.  Answer all questions.  In skeleton is made of a total of:  201 bones 126 bones th one of the following blood groups is considered.	b)	206 bones 198 bones versal donor?	[3] [20 × 1 = 20]
Mul Mul Q1)	Hum a) c)	hoice Questions.  Answer all questions.  Answer all questions.  an skeleton is made of a total of:  201 bones  126 bones  th one of the following blood groups is considered.	b)	206 bones 198 bones Versal donor?	[3] [20 × 1 = 20]
Mul Q1)	Hum a) c) Whice a)	hoice Questions.  In skeleton is made of a total of: 201 bones 126 bones the one of the following blood groups is considered A AB	b) d) ed a uni	206 bones 198 bones Versal donor?	[3] [20 × 1 = 20]
Mul Mul Q1)	Hum a) c) Whice a) c)	hoice Questions.  An skeleton is made of a total of: 201 bones 126 bones th one of the following blood groups is considered A AB  aman body the blood Circulation was discovered	b) d) ed a uni	206 bones 198 bones Versal donor?	[3] [20 × 1 = 20]
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Mul Q1) Q2)	Hum a) c) Whice a) c)	hoice Questions.  In skeleton is made of a total of: 201 bones 126 bones  the one of the following blood groups is considered to A AB  Iman body the blood Circulation was discovered to Karl Landsteiner Gasparo Aselli	b) d) da uni b) cy; b) d)	206 bones 198 bones Versal donor? B O William Harvey Charles Darwin	[3] [20 × 1 = 20]
Mul Q1)	Hum a) c) Whice a) c) In hu a) c)	hoice Questions.  an skeleton is made of a total of: 201 bones 126 bones  th one of the following blood groups is considered A AB  aman body the blood Circulation was discovered by Karl Landsteiner Gasparo Aselli  ECG graph; the period of relaxation in heart heat	b) d) d a uni by; b) d) is deno	206 bones 198 bones versal donor? B O William Harvey Charles Darwin	[3] [20 × 1 = 20]
Mul Q1) Q2)	Hum a) c) Whice a) c)	hoice Questions.  In skeleton is made of a total of: 201 bones 126 bones  the one of the following blood groups is considered to A AB  Iman body the blood Circulation was discovered to Karl Landsteiner Gasparo Aselli	b) d) da uni b) cy; b) d)	206 bones 198 bones Versal donor? B O William Harvey Charles Darwin	[3] [20 × 1 = 20]

(05)	Hen	le's loop (s:			2604
	11)	L-shaped			
	C)	U-shaped	b)	S-shaped	
			d)	V-shaped	
Q6)	The	largest part of human brain is:			
,	a)	Cerebrum	(1)	ā. 4. 1/	
	0)	Dieacephalon	d)	Cerebellum	
			0)	Medulla oblongans	
Q7)	Fron	outside to inside the arrangeme	at of bones of middle ea	ne i u	
	(0)	Incus -> Malfeus -> Stapes	(1)	Stapes → Malleus → Incus	
	0)	Incus -> Stapes -> Malleus	d)	Malleus → Ineus → Stapes	
				maneus - mons - stuppe	
Q8)	Islets	of langerhans produce			
	(a)	Bile	b)	Amylase	
	(c)	Trypsin	d)	fusulin	
-					
		irual cycle is of :			
	n)	26 days	*b)	28 days	
(6)	0)	30 days	d)	29 daya	
Oto		Ion joins.		160	
	) ()			V.D.	60
	)	Muscle with bone Muscle with ligament	b)	Muscle with muscle	3.
	300	witisere with figament	1 PV	Bone with bone-	1
Fill-in	fie bi	anks	MA		13A. 13.60
					V3
Q11) F	ower	house of the cells are	OX	000	)*
				10	
Q12) A	mus	cle is called fairgued when there	is accumulation of	in it. 103	
				- X	
213) T	he rej	gulation of heart heat and blood	pressure are under cont	rolar AV.	
				~95.	
214) G	enera	lly a sudden fatal heart attack mi	ly take place due to com	grete blockade of arters	
3.4 m			~		
(15) 11	se pu	se of a person can be felt by pla	cing a finger on	artery in the wrist.	
1101 6			21		
(40)	TREATED	ry cells are found is the	- 6N		
0.70-00	1	stored in the bar of body.	Vo.		
	facility of	auteu in the v of body.	1		
18) Th	e los	of transmerous of the tale		F	
		s of transparency of the lens cau	ses a defect in len eyes	is called	
19) Es	troger	and progesterone are secreted	bu		
	10.000		197		
20) Ex	chang	c of gases in the lungs is called	respiration	ii.	
		4	- capitalia	***	