

03 Hours / 80 Marks

Instructions –

12425

- (1) All Questions are *Compulsory*.
 - (2) Answer each next main Question on a new page.
 - (3) Illustrate your answers with neat sketches wherever necessary.
 - (4) Figures to the right indicate full marks.
 - (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Seat No.

(6) Incase student has attempted sub-question of question no. 3 more than once, only first attempt should be considered for assessment.

Marks

30

30

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Attempt any <u>SIX</u> of the following:

- a) Classify bones based on their shapes. Describe the structure of a typical synovial joint with diagram.
- b) Describe the process of blood clotting.
- c) Explain conduction system of the heart with neat diagram.
- d) Describe the structure and functions of Liver.
- e) Explain the functional areas of the cerebrum with diagram. Give the functions of cerebrospinal fluid.
- f) Draw a neat and labelled diagram of T.S. of eyeball. Give the functions of skin.
- g) Explain the process of urine formation with neat and labelled diagram of nephron.

2.

1.

Attempt any <u>TEN</u> of the following:

- a) State the functions of the following:
 - i) Ribosome ii) Mitochondria
 - iii) Plasma membrane
- b) Write an account of simple epithelial tissue.
- c) Enlist different types of blood cells with their normal values.
- d) Enlist the components of the lymphatic system. Give the functions of the lymphatic system.
- e) Write an account of basics of electrocardiogram.
- f) Name the upper and lower parts of respiratory system. Give the functions of respiratory system.
- g) Write the physiology of carbohydrate digestion.
- h) Write the effect of parasympathetic stimulation on following body parts
 - i) Eye ii) Cardiac muscles
 - iii) Salivary glands
- i) Write the principal actions of anterior pituitary hormones.
- j) Describe the phases of menstrual cycle.
- k) Write the functions of insulin and thyroid hormones.

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2	ji	in and	⊡%a s	Marks
3.	() ()	Attempt <u>ALL</u> of the following:	ingo	20
in that	a) b)	Define the term Physiology.	in that	
nttps://t	b)	State the meaning of medial plane.	Sillt	
	c) d)	Define the term cardiac output.	ystem helps in voice production.	
	u) e)	Name the salivary glands.	ystem neips in voice production.	
	c) f)	Name any two cranial nerves.		
	ĺ.	Name the two types of photoreceptors p	present in the reting	
	g) h)	If a muscle is frequently stimulated con		hri:
	11)	progressively decreases. Such a conditio		co.`
	i) (State the composition of urine.	j'a	dia
https://pharm	(j)	Name the accessory reproductive glands in the males.		
	k)	Voluntary muscles are present in the	attic	
		i) Heart	ii) Limb	
		iii) Liver	iv) Lungs	
	1)	The first vertebra or G, that supports the	ne skull present at the top of the s	spine is
		i) Hyoid	ii) Axis	
		iii) Atlas	iv) Mandible	
	m)	The shortest bone in the human body is	s	×
		i) Stapes	ii) Malleus	in
		iii) Incus	iy) Patella	CO T
	n)	The plasma protein responsible for bloo	d clotting is	indic
	SCH.	i) Fibrinogen	ii) Globulin	
https://pharm		iii) Serum amylase	iv) Albumin	
	0)	The amount of air that moves in or out	t of the lungs with each normal re	espiratory
		cycle is	ALL	
	p)	When a nerve impulse reaches the neur- released into the	omuscular junction, acetylcholine is	5
	q)	Coughing and Sneezing are controlled by which part of brain?		
	ч) r)	The membranes separates the external ear and middle ear.		
	s)	Which receptor is present in the nose?		
	5)		ii) Gustatory receptor	-0.Hu
			iv) Adrenoreceptor	XIO.
	t)	The primary sex organ of female reproc		JINC
2.	3.		ii) Cervix	
anal.			iv) Fallopian tubes	
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