

First B.H.M.S. (2015) Examination, Summer 2017 PHYSIOLOGY INCLUDING BIOCHEMISTRY - I

Total Duration: 3 Hours Total Marks: 100

Instructions:

- 1) Use blue/black ball point pen only.
- 2) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means.
- 3) All questions are compulsory.
- 4) The number to the right indicates full marks.
- 5) Draw diagrams wherever necessary.
- 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.
- 1. Write short answer (any ten out of fifteen):

(10×2=20)

- a) Define Blood.
- b) Define cardiac output.
- c) Give Normal value of platelets.
- d) Give normal pulse rate.
- e) What is a.v. Node?
- f) What is cyanosis?
- g) What is normal Respiratory rate?
- h) What is Tidal volumes?
- i) Define Renal Filtrating membrane.
- j) Define micturation.
- k) Normal core body temperature and shell body temperature.
- I) Function of skin.
- m) What are the layer of Epidermis?
- n) Function of aveloi.
- o) What is colloid?



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2. Write short answer (any four out of six):

 $(4 \times 5 = 20)$

- a) Define erythrocyte.
- b) Define WBC and classification with function.
- c) What is E.C.G.?
 - d) Properties of Cardiac muscle.
 - e) Define lymph with its function.
- f) Function of spleen.

3. Write short answer (any four out of six):

 $(4 \times 5 = 20)$

- a) Juxta Glomerular Apparatus.
- b) Write in short about Renal circulation.
 - c) Functions of muscular tissue.
 - d) Lung Volume and Capacities.
- e) Artificial respirations.
- f) Function of skin.

4. Long answer question (any two out of four):

(2×10=20)

- a) Write in detail about structure of Haemoglobin and its physiological importance.
- b) Write in detail about Regulation of Blood Pressure.
- c) Write in detail Transport of O₂ (Oxygen) in relation with respiration.
- d) Write in detail about Thermoregulation.

Long answer question (any one from Q. No. 5, 6 and 7):

Long answer question :

(1×20=20)

Write in detail about erythropoiesis, site for it, stages of erythropoiesis, and factors affecting on it.

6. Long answer question:

 $(1 \times 20 = 20)$

Define Respiration, give its mechanism, with neural control and chemical control and its applied physiology.

Long answer question :

 $(1\times20=20)$

Write in detail about mechanism of urine formation with the help of ultra filtration, tubular reabsorption, tubular secretion and give its applied physiology.



First B.H.M.S. (2015) Examination, Summer 2017 PHYSIOLOGY INCLUDING BIOCHEMISTRY - II

Total Marks: 100 Total Duration: 3 Hours

Instructions: 1) Use blue/black ball point pen only.

- 2) Do not write anything on the blank portion of the question paper. If written anything, such type of act will be considered as an attempt to resort to unfair means.
- 3) All questions are compulsory.
- 4) The number to the right indicates full marks.
- 5) Draw diagrams wherever necessary.
- 6) Distribution of syllabus in Question Paper is only meant to cover entire syllabus within the stipulated frame. The Question paper pattern is a mere guideline. Questions can be asked from any paper's syllabus into any question paper. Students cannot claim that the Question is out of syllabus. As it is only for the placement sake, the distribution has been done.

1. Write short answer (any ten out of fifteen):

 $(10 \times 2 = 20)$

- a) What is Puberty?
- b) Define vitamins.
- c) What is dysmenorrhoea?
- (d) Name the harmones of ovary) secreted by the ovary.
- e) Name two Bile Salts.
- f) Harmones secreted by testis.
- g) Functions of Oxytocine) Oxytocine.
- h) Name different types of papillae.
- i) Functions of Placenta.
- i) Name the functions of Stomach.
- k) Name the fat soluble vitamins.
- Applied, related to salivary secretion.
- m) Name the harmones of Posterior Pituitary.
- n) Define vomiting.
- o) Name the harmones) secreted by Thyroid.

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Q.1 (d) corrected or follows:d) Name the hormones secreted by the ovary

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2.	Write short answer (any four out of six):	(4x5=20)
	a) Glycolysis	
	b) Dwarfism	
	c) Peristalsis	
	d) Functions of Tongue	
	e) Amino acids	
	f) Function of gastrin.	
.3.	Write short answer (any four out of six):	(4x5=20)
	a) Obesity	
	b) Enzymes	
	c) Functions of Testosterone	
	d) Formation of mature ovum	
	e) Beri-Beri	
	f) Rickets.	(0+10-20)
4.	Long answer question (any two out of four):	(2x10=20)
	a) Define and Describe Neurone.	
	b) Write Composition and functions of pancritic Juice.	
٠.	c) Enumerate harmones secreted by pancreas and add a note on insulin hor	mone.
*	d) Describe menstrual cycle.	
	물과 보통은 교육을 되고 있는 문화를 하는 것으로 가는 것이 되었다. 그는 것은 사람들은 살아보는 것이 없는 것이 없는데 그렇게 되었다.	
Lo	ong answer question (any one from Q. No. 5, 6 and 7).	(4.00.00)
5.	Long answer question.	(1x20=20)
	Enumerate hormones secreted by anterior pituitary and describe in details	growth
	hormone.	
6.	Long answer question.	(1x20=20)
	Write the composition Functions and mechanism of secretion of gastric Juice	
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7	Long answer question. taste	(1x20=20)
	Write in details about Pathway of test with its applied physic boys.	
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