[Total No. of Pages : 3

FIRST B.H.M.S. (2015) (New) Examination, Summer (Phase - III : All Other Remaining UG/PG Courses) - 2020 PHYSIOLOGY INCLUDING BIOCHEMISTRY - I

(BHMS - 2015 Syllabus is applicable to BHMS (New) Students)

Total Duration : 3 Hours

Total Marks : 100

04112A Dathic Medic

Nimshirgaon

W SIRT

Instructions: 1

- 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) Define Erythropoiesis.
- b) Give 4 functions of blood.
- c) Give the normal value of platelets.
- d) Give normal pulse rate.
- e) What is S.A. Node?
- f) What is cynosis?
- g) What are A. V. valves?
- h) What is Tidal volume?

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P.T.O.

04112A

What is GFR?

i)

i)

Name the glands of the skin.

- k) Define Osmosis.
- l) What is Epidermis?
- m) What is Diffusion?
- n) What is Thermotaxis?
- o) What is juxtaglomerular apparatus?
- 2. Write short answer (any four out of six):
 - a) Anaemia: Defination & different types.
 - b) Electrocardiogram.
 - c) Properties of Cardiac muscle.
 - d) Circulation & functions of lymph.
 - e) Functions of R.E. System.
 - f) Plasma proteins.
- 3. Write short answer (any four out of six):
 - a) Juxtaglomerular Apparatus.
 - (b) Lung Volume & Capacities.
 - -e) Write in short about Renal circulation.
 - d) Hering Breuer Reflexes.
 - e) Structure of skin.
 - f) Functions of muscular tissue.

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 $[4 \times 5 = 20]$

 $[4 \times 5 = 20]$

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

04112A $[2 \times 10 = 20]$

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

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

- 5. Write about Leucocytes in detail. Discuss the different types of WBC & their functions in detail. $[1 \times 20 = 20]$
- 6. Write in detail about the control of respiratory mechanism. Describe the nervous & chemical regulation. $[1 \times 20 = 20]$
- 7. Write in detail about structure & functions of the Kidney. $[1 \times 20 = 20]$

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