

**SARDARY PATEL UNIVERSITY EXAMINATION**  
**FIRST YEAR PHYSIOTHERAPY**  
**Subject: Human Physiology**  
**Friday, 3<sup>rd</sup> January 2014**  
**Time: 10.30 am to 01.30 pm**

SEAT NO: \_\_\_\_\_

SUPERVISOR SIGN: \_\_\_\_\_

| Correct Ans | Wrong Ans | Not attempted | Marks | Examiner sign |
|-------------|-----------|---------------|-------|---------------|
|             |           |               |       |               |

**SECTION – I**

**MARKS: 20**

**Instructions:**

1. All MCQs are compulsory. Each carries one mark.
2. Total time allotted for completing MCQs is 20 minutes.
3. There is no negative marking.
4. Encircle the correct answer.
5. Overwriting will be considered as a wrong answer.

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|---|---|
| 1. Genetic material is present in another organelle apart from nucleus<br>a) Centrosome<br>b) Lysosome<br>c) Mitochondria<br>d) Golgi apparatus                     | 2. Glucose is transported in tissue cells by:<br>a) Simple diffusion<br>b) Primary active transport<br>c) Facilitated diffusion<br>a) None of above |
| 3. Total number of chromosomes in somatic cells is:<br>a) 48<br>b) 46<br>c) 22<br>d) 26   | 4. Relaxing proteins of the muscle:<br>a) Dystrophin<br>b) Tropomyosin<br>c) Actin<br>d) Myosin   |
| 5. Which is the most appropriate for the normal range of WBC count in human?<br>a) 500/ cu.mm<br>b) 5000/ cu.mm<br>c) 5 lacs/cu.mm<br>a) 5 million/cu.mm            | 6. Life span of Red Blood cells is around:<br>a) 02 days<br>b) 60 days<br>c) 120 days<br>d) 240 days  |
| 7. Pancreatic HCO <sub>3</sub> <sup>-</sup> secretion is mainly stimulated by:<br>a) CCK-PZ<br>b) Secretin<br>c) Gastrin<br>d) VIP                                  | 8. Mass peristalsis is seen in:<br>a) Liver<br>b) Colon<br>c) Small intestine<br>d) Stomach   |
| 9. Erythropoietin is secreted by:<br>a) Cells in Macula Densa<br>b) Cells in Proximal Tubule<br>c) Cells in Distal Tubule<br>d) Cells in Juxta-Glomerular Apparatus | 10. Normal GFR from both the kidneys is:<br>a) 50 ml/min<br>b) 75 ml/min<br>c) 125 ml/min<br>d) 250 ml/min  |

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|--|---|
| <p>11. The hormone responsible for Milk ejection reflex is:</p> <p>a) Oxytocin<br/>b) Prolactin<br/>c) Estrogen<br/>d) Progesterone</p>                          | <p>12. All the hormones secreted from the Pancreatic islets except:</p> <p>a) VIP<br/>b) Insulin<br/>c) Glucagon<br/>d) Somatostatin</p>                    |
| <p>13. The main source of testosterone in human is:</p> <p>e) Leydig cells<br/>f) Sertoli cells<br/>g) Epididymis<br/>h) Vas deferens</p>                        | <p>14. Which of the following hormone is responsible for ovulation?</p> <p>a) FSH<br/>b) LH<br/>c) Oxytocin<br/>d) Prolactin</p>                            |
| <p>15. Natural pacemaker of the heart in normal healthy person:</p> <p>a) SA Node<br/>b) AV Node<br/>c) Bundle of His<br/>d) Ventricle</p>                       | <p>16. Syncytial nature of cardiac muscle is due to:</p> <p>a) Tight junction<br/>b) Gap junction<br/>c) Desmosomes<br/>d) Pacia adherence</p>              |
| <p>17. How much amount of air is breathed by man, at resting condition?</p> <p>a. 100 ml<br/>b. 250 ml<br/>c. 500 ml<br/>d. 1000 ml</p>                          | <p>18. Babinski sign is seen in:</p> <p>a) Cerebellar lesion<br/>b) Thalamic syndrome<br/>c) Upper motor neuron lesion<br/>d) Lower motor neuron lesion</p> |
| <p>19. All the following are associated with cerebellar lesions except:</p> <p>a) Ataxia<br/>b) Spasticity<br/>c) Pendular knee jerk<br/>d) Intention tremor</p> | <p>20. CSF is mainly produced by:</p> <p>a) Ependyma<br/>b) Choroid plexus<br/>c) Arachnoid granulation<br/>d) Blood brain barrier</p>                      |