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## First Professional MBBS Degree Supplementary Examinations

## February 2017

## PHYSIOLOGY – Paper II

Time: 3 Hours Tota	al Marks: 50
Answer all questions	
Draw Diagrams wherever necessary     Long essay	(10)
	(10)
<ol> <li>An elderly man was admitted to the hospital with complaints of intense cerpain with radiation to left arm. Answer the following questions based on yo knowledge in physiology:</li> <li>What is the cause of the pain in the left arm and explain its mechanism.</li> <li>Describe the pain pathway in detail.</li> <li>Mention gate control theory of pain sensation</li> </ol>	
Short essays	(2x5 =10)
<ol> <li>Effects of hypo secretion of growth hormone</li> <li>Events during neuromuscular transmission of impulse in skeletal muscle</li> </ol>	
Answer briefly	(5x3=15)
<ul> <li>4. Reciprocal innervation.</li> <li>5. Paradoxical sleep.</li> <li>6. Milk ejection reflex.</li> <li>7. Dark adaptation</li> <li>8. Cerebellum in voluntary activity</li> </ul> Draw and label 9. Taste pathway	
Draw and label	(2x2½=5)
<ol> <li>Taste pathway</li> <li>Feedback regulation of thyroid hormone secretion</li> </ol>	
Explain the physiological basis of the following	(5x2=10)
<ol> <li>Renshaw cell inhibition</li> <li>Safe period</li> <li>Sterility in undescended testis</li> <li>Neuromuscular hyper excitability in tetany</li> <li>Masking in audition</li> </ol>	

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