

503-A

**M.B.B.S. DEGREE EXAMINATION – JULY, 2012**  
**FIRST M.B.B.S. EXAMINATION**  
**PHYSIOLOGY**  
**PAPER-I**

Time : 2 ½ Hours

Max. Marks: 50

Answer all questions

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- |    |   |    |
|----|---|----|
| 1) | Define blood pressure, systolic pressure, diastolic pressure and pulse pressure with their normal values. Explain the baroreceptor reflex regulation of blood pressure with a suitable diagram. | 10 |
| 2) | What is the physiological basis of blood grouping? Explain the blood groups and their clinical importance. Add a note on cross matching.  | 10 |

**WRITE SHORT NOTES ON:**

5x4=20

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|----|--|--|
| 3) | Erythropoiesis   |  |
| 4) | Pacemaker potential  |  |
| 5) | Coronary circulation   |  |
| 6) | Timed vital capacity in obstructive and restrictive disorders with diagram |  |
| 7) | Enterohepatic circulation of bile salts.                                   |  |

**WRITE BRIEFLY ON:**

5x2=10

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|-----|---------------------------|--|
| 8)  | Dietary fiber             |  |
| 9)  | Arteriovenous anastomoses |  |
| 10) | Triple response           |  |
| 11) | Inulin clearance          |  |
| 12) | Chloride shift            |  |

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