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**SA-1564**  
**Second Year M. B. B. S. Examination**  
 February / March — 2011  
**Microbiology : Paper - II**

Time : 2 Hours]

[Total Marks : 40

**Instructions :**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| 414 sai4c-t 4 r-Ruttiluirt ZPiqq. 0441.<br>Fillup strictly the details of op- signs on your answer book.<br>Name of the Examination :<br><div style="border: 1px solid black; padding: 2px; margin: 2px;">           SECOND YEAR M. B. B. S.         </div> Name of the Subject :<br><div style="border: 1px solid black; padding: 2px; margin: 2px;">           MICROBIOLOGY : PAPER - 2         </div> O-Subject Code No. : <span style="border: 1px solid black; padding: 0 5px;">6</span> <span style="border: 1px solid black; padding: 0 5px;">4</span> -Section No. (1, 2, ....) <b>NII</b> | Seat No.:<br><div style="display: flex; justify-content: space-around; margin-top: 5px;"> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px;"></div> </div> <div style="border: 1px solid black; border-radius: 10px; height: 80px; margin-top: 10px; display: flex; align-items: center; justify-content: center;">         Student's Signature       </div> |
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 (2) Draw figures where **necessary**.

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| 1 | Discuss in detail : (any <b>two</b> )<br>(a) Pathogenesis and carrier stage of Salmonella infection.<br>(b) Antigenic classification of Vibrio.<br>(c) Cultivation of <i>C. diphtheriae</i> .                                                                                           | 8  |
| 2 | Write notes on : (any <b>three</b> )<br>(a) Pathogenesis and laboratory diagnosis of pulmonary tuberculosis<br>(b) Toxins produced by <i>Staphylococcus aureus</i><br>(c) Biochemical reactions of <i>Proteus mirabilis</i><br>(d) Morphology of Spirochaetes producing human diseases. | 12 |
| 3 | Write notes on : (any <b>two</b> )<br>(a) Tissue culture techniques<br>(b) Structure and classification of Myxoviruses<br>(c) Antigens of HIV virus.                                                                                                                                    | 8  |
| 4 | Write notes on : (any <b>four</b> )<br>(a) Laboratory diagnosis of a systemic fungal infection<br>(b) Superficial mycosis<br>(c) Germ tube test<br>(d) Pathogenesis of <i>Candida albicans</i><br>(e) KOH scrapping.                                                                    | 12 |

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[ 400 ]