

**Code No: PH3****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****Pharm.D III Year Supplementary Examinations, October/November - 2019****MEDICINAL CHEMISTRY****Time: 3hours****Max.Marks:70**

**Answer any five questions**  
**All questions carry equal marks**

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- 1.a) What is Hansch analysis? Write its merits.  
b) What is CADD? Write its importance. [7+7]
- 2.a) What are anti-tubercular agents? Classify them with examples. Add a note on the regimens currently employed in therapy.  
b) Outline the synthesis and uses of Isoniazid. [7+7]
- 3.a) Write the mechanism of action of sulphonamides.  
b) Outline the synthesis of sulphamethaxazole and pyrimethamine. [7+7]
- 4.a) What are antibiotics? Classify them with examples and add a note on  $\beta$ -lactam antibiotics.  
b) Outline the synthesis of mercaptopurine and busulphan. [7+7]
- 5.a) What is essential hypertension? Classify the anti-hypertensive agents with their mode of action.  
b) What do you know of anti-hyperlipidemic agents? [7+7]
- 6.a) Outline the synthesis of metformin and glibenclamide.  
b) What do you know of thyroid drugs? [7+7]
- 7.a) What are diuretics? Classify them with examples and write the mode of action of acetazolamide and hydrochlorthiazide?  
b) Write the SAR of thiazide diuretics. [7+7]
- 8.a) Write the synthesis of iopanoic acid and diatrizoate sodium.  
b) What do you know of adrenocorticoids? [7+7]

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