

BCM SCHOOL BASANT AVENUE DUGRI LUDHIANA

XII BIOLOGY

CH: MOLECULAR BASIS OF INHERITANCE

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|-----------|---|----------|
| <b>1</b>  | What are the components of a nucleoside ?   | <b>1</b> |
| <b>2</b>  | Who experimentally proved the semiconservative nature of DNA replication?   | <b>1</b> |
| <b>3</b>  | How is the nitrogenous base linked to the pentose sugar ?   | <b>1</b> |
| <b>4</b>  | Which enzyme is used in the Transcription process ?   | <b>1</b> |
| <b>5</b>  | Write the dual function of AUG.   | <b>1</b> |
| <b>6</b>  | Expand VNTR .   | <b>1</b> |
| <b>7</b>  | State two reasons that favour DNA to be the genetic material than that of RNA .   | <b>1</b> |
| <b>8</b>  | How are the exons different from introns? Give two points of difference .   | <b>1</b> |
| <b>9</b>  | Which strand of DNA is transcribed and Why ?  | <b>1</b> |
| <b>10</b> | State two functions of DNA polymerase .   | <b>2</b> |
| <b>11</b> | Who postulated an adapter molecule to link the genetic code and the amino acids?<br>State its two functions.                            | <b>2</b> |
| <b>12</b> | (i)What are the four levels at which gene expression is regulated in eukaryotic cell ?<br>(ii)Name the regulatory gene of Lac –operon . | <b>2</b> |