6.

 (vi) Which of the following is a genetic vector? ½ (a) Plasmid (b) Phage (c) Cosmid (d) All the above (vii) The enzyme required for transcription is: ½ (a) RNA Polymerase (b) DNA Polymerase (c) Endonuclease (d) None of the above 	 Describe the following:— (a) Purine bases (b) Avery, Macleod and Okcarty experiment (c) m-RNA. 12 OR (d) Griffith's experiment. (e) Chemical composition of RNA (f) Z DNA. Explain the following:— (g) Semiconservative method of DNA replication. (h) Concept of gene.
(viii) In human trisomy of 21st chromosome causes:	(i) Overlapping genes. OR
(a) Turner's Syndrome (b) Pataus Syndrome (c) Down's Syndrome (d) All of the above. (C) Answer in ONE sentence:	 (j) Concept and action of cistron. (k) One gene one polypeptide theory with one example. (l) Split genes. 4. Explain the following:— (m) Wobble hypothesis.
 (ix) What is lagging straint? (x) Define PCR technique. (xi) How many different combinations are possible in triplet code? 	 (m) Wobble hypothesis. (n) Britten-Davidson model. (o) Role of amino acyl t-RNA synthetase. 12 OR
(xii) Which isotopes were used in blender experiment? 1 UWO—42446(Re) 2 (Contd.)	UWO-42446(Re) 3 (Contd.)