QP Code: 77158

58
[Total Marks:75, 2016 And Andrews and A (21/2 Hours) (1) Attempt all questions. N.IL : (2) All questions carry equal marks. (3) Draw neat labelled diagrams wherever necessary. Give the importance of (any three): (a) (i) Klenow's fragment (ii) Target sites of restriction enzymes (iii) Star activity (iv) Labelling of nucleic acids (i) Types and applications of nucleases
(ii) Nick translation
iii) Terminal deoxy nucleotides
iv) Importance (vi) Ligases Given an account of the following:- (any two) (b) 12 (ii) Nick translation (iii) Terminal deoxy nucleotidyl transferases (iv) Importance of PNK in genetic engineering Explain the following terms (any three) 2. (a) 3 (i) Nopalines (ii) VirE2 protein (iii) Cosmid (iv) Unique restriction site (v) Helper phage (vi) Adaptor Attempt the following: - (any two) 12 (i) Discuss; Ti plasmids as plant gene transfer vectors (ii) Elaborate on Phage cloning vectors (iii) Explain the role of antisense RNA mechanism in regulation of copy number of plasmid. (iv) Describe the process of cloning of foreign DNA in phage M13

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3. (a) Do as directed (any three):- (i) What is sequenase? (ii) Define: annealing (iii) Give the role of primers (iv) State one application of DNA typing (v) Explain: minisatellite sequence	7
(i) What is sequenase? (ii) Define: annealing (iii) Give the role of primers	
(ii) Define: annealing (iii) Give the role of primers	
(iii) Give the role of primers	
(iii) Give the fold of plants of DNA typing (iv) State one application of DNA typing	
(v) Explain: minisatellite sequence	
(vi) Fill in the blank: Restriction enzyme govern	
called	
(b) Give an account of the following:- (any two)	
(b) Give an account of the following (i) Screening of genomic libraries	
(ii) PCR and its applications	
(iii) Southern hybridisation (iv) Any one method used for DNA sequencing. Q	
(iv) Any one method used for DNA sequencing.	
(IV) Ally one instance	,
4. (a) Give the significance of (any three):-	
4. (a) Give the significance of (all)	
(ii) C peptide	
(ii) Southern hydraction (iv) Any one method used for DNA sequencing. Q 4. (a) Give the significance of (any three):- (i) Proinsulin (ii) C peptide (iii) DNA vaccines	
(iv) Corrective gene therapy	
(v) Vaccinia virus	
200 Year of the control of the contr	2
(vi) VPI protein (b) Answer the following:- (any two) (b) Discuss the advantages of a live recombinant vaccine over heat	
killed and attenuated vaccine	
killed and attenuated vaccine (ii) How would you develop a vaccine against V. cholerae? (iii) How would you develop and application of peptide vaccines	
(ii) How would you develop a vaccine against 7. (iii) Describe the mode of action and application of peptide vaccines (iii) Describe the mode of action and in-vivo approaches to targeting	
(iii) Describe the mode of action and approaches to targeting (iv) Comment on the ex-vivo and in-vivo approaches to targeting	
somatic gene therapy	
() to do () (any three):-	, .
(a. 11-1 estriction and modification of less the section	
(ii) Host controlled restriction and moderate (iii) Construction of cDNA library	
(iv) Shuttle vectors	
(v) DNA profiling (vi) Mode of action and applications of ligases	
(Vi) Mode of action and applications of inguis-	
Mode of action and applications of ligases	
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