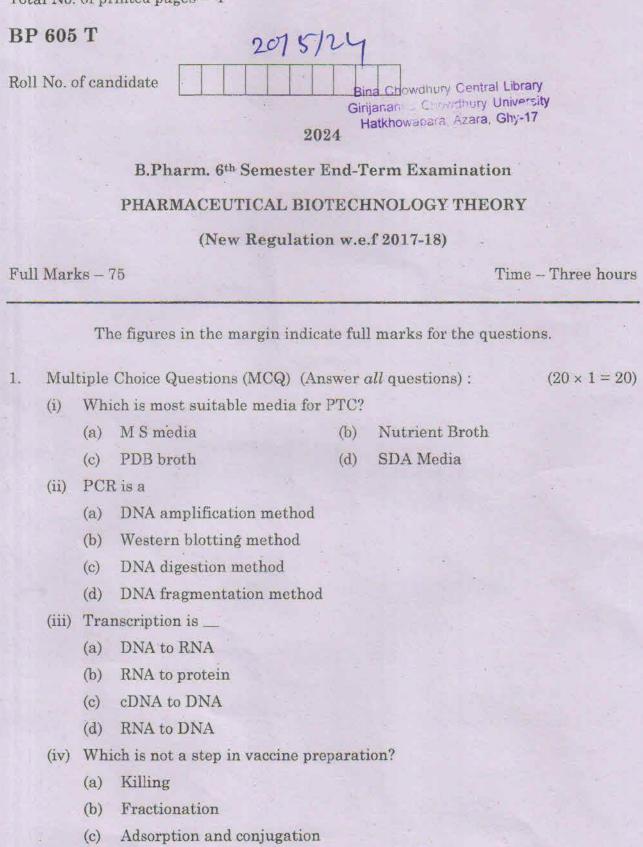
(d) Desorption



Turn over

(v)	The	The class of antibodies, which can cross placenta is					
	(a)	IgD	(b)	IgA			
	(c)	IgG	(d)	IGM			
(vi)	In which of the technique, the enzyme and polymer are bridged by the use of bi-functional reagent?						
	(a)	Covalent cross-linking	(b)	Adsorption			
	(c)	Physical entrapment	(d)	Microencapsulation CHI OUNIE			
(vii)	(a) Covalent cross-linking (b) Adsorption  (c) Physical entrapment (d) Microencapsulation of the polymer of the PCR technique was developed by  (a) Kany Mullis (b) Kohler of and and apara. Azara.  (c) Milstein (d) Boyer Haumowapara.						
	(a)	Kany Mullis	(b)	Kohlerandanananananan			
	(c)	Milstein	(d)	Boyer Gillarkho			
(viii)		the production of the Horned recombinant DNA is int		asulin using rDNA technology, the			
	(a)	Bacteria	(b)	Fungi			
	(c)	Yeast	(d)	Virus			
(ix)	Name the type of culture which is prepared by inoculating directly from the tissue of an organism to culture media?						
	(a)	Primary cell culture	(b)	Secondary cell culture			
	(c)	Cell lines	(d)	Transformed cell culture			
(x)	Tuberculin type comes under which type of hypersensitivity?						
	(a)	(a) Type I Hypersensitivity					
	(b)	Type III Hypersensitivity					
	(c)	Type II Hypersensitivity					
	(d)	(d) Type IV Hypersensitivity					
(xi)	Which end of DNA is phosphorylated by Alkaline Phosphatase enzyme?						
	(a)	3' End					
	(b)	5' End					
	(c)	2' End					
	(d)	Both 3' and 5' End					
(xii)	Ant	Antibody chains are linked together by					
	(a) Covalent Bonds						
	(b)	Hydrogen Bonds					
	(c)	Disulphide Bonds					
	(d)	Hydrophilic Bonds					

	(a)	Antibiotic Resistance Gen	е				
	(b)	COS sites					
	(c)	Origin of Replication					
*	(d)	Marker regions					
2.35	(xiv) Which organism used for the production of penicillin antibiotic?						
	(a)	Penicillium notatum					
	(b)	Aspergillus niger	T-Fra	al.			
	(c)	Bacillus subtilis		Central Library			
	(d)	Bacillus cereus	ONALIES	dhury Ghy-17			
(	(xv) Wh	(c) Bacillus subtilis (d) Bacillus cereus (Mat is a cell line?  (a) Multilaver culture					
	(a)	Multilayer culture					
	(b)	Transformed cells					
	(c)	Multiple growth of cells					
	(d)	Sub culturing of primary c	ulture				
(	xvi) B ce	amounts of antibody are called					
330	(a)	Memory cells	(b)	Basophils			
	(c)	Plasma cells	(d)	Killer cells			
(	(xvii) Which hypersensitivity reactions are mediated by T cell?						
	(a)	Type IV	(b)	Type III			
	(e)	Type I	(d)	Type II			
(	ether two different types of DNA						
	(a)	Ligase	(b)	Endonuclease			
	(c)	Exonuclease	(d)	Protease			
(xix) Which of the following enzymes in bacteria are responsible for restriction the growth of viruses?							
	(a)	Restriction endonuclease	(b)	Topoisomerase			
	(c)	Gyrase	(d)	Protease			
(2	xx) RFL	P stand for					
	(a)	Restriction fragment length	n polym	orphism			
	(b)						
	(c)						
	(d)	Rapid fragment length pol	ymorph	ism			
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(xiii) Difference between plasmid and cosmid vector is

Short answers (Answer any seven) 2.

 $(7 \times 5 = 35)$ 

- Write a note on production of penicillium.
- (b) Describe characteristics of restriction endonuclease enzyme.
- Explain in brief about the structure of immunoglobulins. (c)
- Write in brief about production of vaccines and toxoids. (d)
- Describe in brief about cloning vectors, restriction endonuclease and (e) Give a vivid description of Western blot and its use.

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  Discuss briefly the mechanism of transformational description of Western blot and its use.

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  Cirila hands apara, Azara, Girila hands apara, Azara, Girila
- (f)
- Discuss briefly the mechanism of transformations.

  Describe in brief about storage (g)
- (h)
- Describe in brief about storage condition and stability of official vaccines. (i)
- Long answers (Answer any two) 3.

 $(2 \times 10 = 20)$ 

- Write in brief about hybridoma technology. Describe the role of transducer (5+5)in Biosensors.
- Discuss in brief about cellular and humoral immunity. Explain briefly about (b) (5+5)the structure and function of mhc.
- Describe with diagram about Recombinant DNA technology. Discuss in brief about enzyme immobilization and protein engineering. (5+5)