

## Biology FSC Part 2 Chapter 23 Online MCQ's Test

Sr	Questions	Answers Choice
1	In 1970 Hamilton D.Smith at Johns Hopkins University isolated the first	A. DNA polymerase B. DNA ligase C. Diastase D. Restriction enzyme
2	A probe is a single stranded nucleotide sequence that will hybridize in to certain piece of.	A. Amino acids B. DNA C. Carbohydrate D. RNA
3	The enzyme luciferase is produced by an insect commonly known as the.	A. House fly B. Butter fly C. Caddis fly D. Fire fly
4	How many different kinds of the gametes will be formed by an individual , who is heterozygous for four gene pairs:	A. 8 B. 16 C. 20 D. 30
5	Transgenic bacteria are produced in large vats called.	A. Transducer B. Bioreactor C. Biomultiplier D. Culture media
6	Primer for PCR contains about.	A. 5 bases B. 10-20 bases C. 30 bases D. 40 bases
7	DNA threads are chemically cut into pieces of different sizes in	A. Maxam-Gilbert method B. Sanger's method C. Smith's method D. Sanford's method
8	Commonly enzyme thermus aquaticus is also known as	A. Taq polymerase B. DNA polymerase C. RNA polymerase D. Taq ligase
9	Eco. R is a commonly used	A. Gene B. Restriction enzyme C. Bacteria D. Bacteriophage
10	A collection of bacterial and phage viruses clones containing a particular segment of DNA from the source cell is called.	A. Expressing system B. Genome C. Genomic library D. Recombinant DNA
11	An enzyme that can be used to treat a human lysosome storage disease is	A. B-galactosidase B. α-galactosidase C. Glucosidase D. Invertase
12	Organisms that have had a foreign gene inserted into them are called.	A. Transgenic organisms B. Polygenesis C. Hermaphrodites D. Transmuted organisms
13	It is estimated that human genome could take an encyclopaedia of 200 volumes each with	A. 10 pages B. 100 pages C. 1000 pages D. 10,000 pages
14	The enzyme which joins the two pieces of DNA is	A. DNA polymerase -I B. DNA ligase C. Restriction endonuclease D. DNA polymerase -II
15	The number of linkage group in man is:	A. 02 B. 23 C. 46 D. 92

16	Genes that code for therapeutic and diagnostic proteins are incorporated into the animal's DNA and the proteins appear in the animal's	A. Urine B. Blood C. Sweat D. Milk
17	The children with "SCID" lack an enzyme.	A. a galactosidase B. Phenylalanine hydroxylase C. Adenosine deaminase D. Succinic dehydrogenase
18	PSC 101 has antibiotic resistance gene for.	A. Tetracycline B. Neomycin C. Ampicillin D. Ergotine
19	In 1999,transgenic crops were planted world wide on more than	A. 20 millions areas B. 35&nbsp;millions areas C. 70&nbsp;millions areas D. 90&nbsp;millions areas
20	Two parents, each of blood groups A, have a daughter of blood group O. what is the probability that their next child who has blood group O?	A. 0.125 B. 0.25 C. 0.50 D. 0.75
21	Anti thrombin III is a biotechnological produce produces in.	A. sheep B. Goat C. Mice D. Cow
22	A probe is a single stranded nucleotide sequence that will hybridize (pair) into a certain piece of	A. DNA B. RNA C. Amino acid D. Fatty acid
23	Bold group B phenotype contains anti-A antibodies in the serum and agglutinates any RBC with antigen:	A. AB B. O C. A D. B
24	Cases of disputed parenthood can be solved with the help of	A. DNA Finger printing B. Cloning C. RNA Finger printing D. Gene sequencing
25	To genome fragment can be separated according to their lengths during .	A. Gel electrophoresis B. PCR C. Cloning D. Gene therapy
26	Which is not a biotechnology product.	A. Hepatitis B B. Tissue plasminogen activator C. Human growth hormone D. Hemophilia factor I
27	A full set of genes of an individual is called	A. Genotype B. Genomic library C. Genome D. Allelomorph
28	Person with Huntington's disease have a unique site where a restriction enzyme cuts.	A. RNA B. DNA C. Lipids D. Proteins
29	The first restriction enzyme was isolated by	A. Kary mulis B. Hamilton O. smith C. Sagar D. Maxam gilbret
30	Taqpolymerase are enzyme present in.	A. Fungi B. Bacteria C. Algae D. Virus
31	The organisms used a biofilters is.	A. Transgenic plant B. Transgenic bacteria C. Transgenic animal D. Transgenic virus
32	Meristem is.	A. Fungi free B. Virus free C. Bacteria free D. Pathogen free
33	PCR takes its name from _____ the enzyme that carries out DNA replication in a cell.	A. DNA Polymerase B. DNA Ligase C. DNA Polymerase II

		<p>C. DNA polymerase II</p> <p>D. Restriction enzymes</p>
34	Growth of tissue in an artificial liquid culture medium is termed as.	<p>A. cloning</p> <p>B. Genetic engineering</p> <p>C. Tissue culture</p> <p>D. Gene therapy</p>
35	A woman with normal colour vision, whose father was red-green colour blind, married a red-green colour-blind man. What is the probability of her first-born child being red-green colour blind?	<p>A. 1.0</p> <p>B. 0.75</p> <p>C. 0.50</p> <p>D. 0.025</p>
36	A man blood group A marries a woman of blood group B and they have one child. Which one of the following statements about the child's blood is correct?	<p>A. It could be group A only</p> <p>B. It could be group AB only</p> <p>C. It could be group A or Group B only</p> <p>D. It could be any of the groups A,B,AB, O</p>
37	Chances for a son or daughter in human birth are:	<p>A. 3:1 between son and daughter</p> <p>B. 1:3 between son and daughter</p> <p>C. 1:1 between son and daughter</p> <p>D. None of them</p>
38	The means by which recombinant DNA is introduced into a host cell is called	<p>A. Plasmid</p> <p>B. Carrier</p> <p>C. Vector</p> <p>D. Lifter</p>
39	A callus is an undifferentiated group of	<p>A. Cells</p> <p>B. Tissues</p> <p>C. Organs</p> <p>D. Systems</p>
40	A weed called mouse eared cress is engineered to produce a biodegradable plastic called.	<p>A. Luciferin</p> <p>B. Digitoxin</p> <p>C. Polyhydroxy butyrate</p> <p>D. Pheylalanine</p>
41	DNA Finger prints can be separated from.	<p>A. Plasma</p> <p>B. Lymph</p> <p>C. Blood</p> <p>D. Serum</p>
42	Urine is preferable vehicle for a biotechnology product than.	<p>A. Plasma</p> <p>B. Blood</p> <p>C. Milk</p> <p>D. Tissue fluid</p>
43	Antibody used for the treatment of genital herpes is obtained from	<p>A. Corn</p> <p>B. Soya bean</p> <p>C. Rice</p> <p>D. Wheat</p>
44	Cystic fibrosis patients lack a gene that codes for trans-membrane carrier of the	<p>A. Chloride ion</p> <p>B. Sodium ion</p> <p>C. Potassium ion</p> <p>D. Calcium ion</p>
45	Kary Mullis developed the polymerase chain reaction in.	<p>A. 1963</p> <p>B. 1973</p> <p>C. 1983</p> <p>D. 1993</p>
46	How many base pairs are found in the human genome.	<p>A. Three billion</p> <p>B. thirty billion</p> <p>C. Five billion</p> <p>D. Forty billion</p>
47	PBR 322 has antibiotic resistant genes for.	<p>A. Tetracycline</p> <p>B. Neomycin</p> <p>C. Ampicillin</p> <p>D. Ergotine</p>
48	Commonly used restriction enzyme is	<p>A. EcoR4</p> <p>B. Eco R3</p> <p>C. EcoR2</p> <p>D. EcoR1</p>
49	DNA finger prints can also be used as	<p>A. Crime evidence</p> <p>B. Forensic evidence</p> <p>C. Litigation evidence</p> <p>D. Offence evidence</p>
50	When expression of a biological character is observed in variable intensity, it is due to the effect of:	<p>A. Multiple alleles</p> <p>B. Codominance</p> <p>C. Epitasis</p> <p>D. Polygenic inheritance</p>

51	Poly hydroxy butyrate is called.	A. Antithrombin III B. Nutra Sweet C. Biodegradable plastic D. Luciferin
52	In 1958, F.C. Steward grew a complete carrot plant from tiny piece of.	A. Pith B. Cortex C. Xylem D. Phloem
53	German botanist Gottlieb Haberlandt said in 1902 that plant cells are	A. Totipotent B. Potent C. Totipotent D. Totipotent
54	What are the phenotypes of the parent of a colour-blind son and non-carrier daughter with normal colour vision?	A. <b>FATHER MOTHER</b> Carrier Normal B. <b>FATHER MOTHER</b> Colour blind Carrier C. <b>FATHER MOTHER</b> Normal Carrier D. <b>FATHER MOTHER</b> Normal Colour-blind
55	Patient of cystic fibrosis often die due to numerous infections of.	A. Digestive tract B. Excretory tract C. Respiratory tract D. Reproductive tract
56	Adult transgenic tobacco plants glowed when sprayed with the substrate.	A. Luciferin B. Myoglobin C. Hemoglobin D. Methionine
57	Which enzyme acts as molecular scissors.	A. DNA ligase B. DNA polymerase C. RNA polymerase D. Restriction endonuclease
58	The two different pieces of DNA joined together is called as.	A. Dimeric DNA B. Chimeric DNA C. Trimeric DNA D. Tetrameric DNA
59	An antibody made by soybeans can be used as treatment for	A. AIDS B. Herpes simple C. Genital Herpes D. Hepatitis c
60	A full set of genes of an individual is called.	A. Genome B. Genotype C. Karyotype D. Dominance
61	Inheritance of skin colour in man is controlled by eight pairs of genes, which are:	A. Linked B. Codominant C. Multiple alleles D. Assorting independently
62	The polymerase chain reaction was developed in 1983 by	A. Kary B. Mullis B. Gottlieb Haberlandt C. Theodore M. Klein D. Craig Venter
63	PCR takes its name from	A. RNA polymerase B. DNA polymerase C. DNA ligase D. Endonuclease
64	Adult transgenic tobacco plants glowed when sprayed with the substrate	A. Luciferon B. Luciferin C. Luciferol D. Luciferase
65	Cystic fibrosis patients lack a gene that codes for trans membrane carrier of.	A. Chloride ion B. Calcium ion C. Sodium ion D. Magnesium ion