

SIDDHARTH GROUP OF INSTITUTIONS:: PUTTUR

Siddharth Nagar, Narayanavanam Road – 517583

QUESTION BANK (DESCRIPTIVE)

Subject with Code: BIOLOGY FOR ENGINEERS(18HS0803) Branches:MECH,CIVIL,EEE

Year &Sem: II-B.Tech&I-Sem **Regulation:** R18

<u>UNIT –I (INTRODUCTION & CLASSIFICATION OF ORGANIS</u>

1. (a) Define biology?	(2M)
(b) What is autotrophs and heterotrophs	(2M)
(c) Define taxonomy?	(2M)
(d) What are the three domines(kingdoms) of life?	(2M)
(e) What is cell?	(2M)
2. (a) Draw ultra structure of Prokaryotic cell.	(4M)
(b) Compare the characteristics of Prokaryotic and Eukaryotic cell.	. (6M)
3. What are Model organisms? Give brief notes n any three model organisms?	anisms. (10M)
4. (a) Classify Kingdom Protista and Kingdom Animalia.	(6M)
(b) Write short notes on unicellular and Multicellular with example	es. (4M)
5. (a) Explain mode of excretion in Urioteliic organisms.	(6M)
(b) write carbon and Energy Utilization in lithotrophs	(4M)
6. (a) Define Habitat. Explain Terrestrial Habitat.	(5M)
(b) How autotrophs utilize carbon and energy?	(5M)
7. Write the differences between Plant cell and Animal cell.	(10M)
8. (a) Define classification.	(3M)
(b) What are the Divisions in Kingdom Plantae?	(7M)
9. Describe Amminotelsim and Uricotelism.	(10M)
10. Draw labeled diagram of Animal cell as seen in Electron microscop	pe.
Comment on characteristics of Animal cell.	(10M)
11. Explain about mitochondria termed has 'power houses' of Eukar	ryotic? (10M)

UNIT-II (GENTICS PURPOSE)

1. a). What is cell cycle?	(2M)
b). What is meiosis?	(2M)
c). Define mendel 1 st & 2 nd law.	(2M)
d). Give an account on dominant & recessive uses.	(2M)
e). What is gene mapping?	(2M)
2 .What are the three Laws of Inheritance proposed by Mendel? Explain Monohy	brid cross
3 . Define gene Interaction. Give brief account on Dominant Epistasis with suitable	e example. [10M]
4. (a) Describe Complementary Gene Interaction.	[5M]
(b) Give an account on Duplicate Gene Interaction.	[5M]
5. (a) Explain Phenylketonuria.	[5M]
(b) Explain about Albinisim.	[5M]
6. Explain Meiosis with diagrammatic representation .	[10M]
7. Discuss on Gene Mapping.	[10M]
8. Give an account on Law of Independent Assortment	[10M]
9. What is Mitotic Cell division? Explain Mitosis with neat diagram.	[10M]
10. Give an account on Down's syndrome.	[10M]
11. Define Genetics and explain Dihybride cross.	[10M]

<u>UNIT-III (BIOMOLECULES PURPOSE & ENJYME PURPOSE)</u>

 (a) What are polysaccharides? (b) Write any four functions of proteins? (c) List the two types of lipids and their functions? (d) How many types of nucleic acids are there? And write any two functions. (e) List some important organic compounds present in living organisms? Define enzymes and its role in plants? Describe the enzyme nature, properties and nomenclature? 	(2M) (2M) (2M) (2M) (2M) (10M) (10M)
4. Describe the enzyme action and kinetics?	(10M)
5. What are lipids? Classify and explain different types of lipids.	(10M)
6. What are the macro molecules and its types? Write the functions of macro n	nolecules. (10M)
7. What are carbohydrates? Classify and explain mono saccharides.	(10M)
8. Biological classification of amino acids and their importance.	(10M)
9. Describe the	
a) RNA catalysis.b) Kinetic parameters related too biology.	(5M) (5M)
10. Define polysaccharides with suitable examples.	(10M)
11. Explain about mechanism in Enzymes.	10M

UNIT 4

(FORMATION TRASFER PURPOSE & MACROMOLECULAR ANALYSISS PURPOSE)

1. a) Distinguish between DNA and RNA?	(2M)
b) Draw a neat diagram of DNA double helix structure?	(2M)
c). What is complimentary on ?	(2M)
d) Write full form of M-RNA& TRNA & their functions?	(2M)
e) What are the two purines & Pyramidines of DNA?	(2M)
2. Explain genetic code & Degeneracy of genetic code?	(10M)
3. Explain & Describe the R-DNA technology methods?	(10M)
4. Define trans genic plants & it's applications?	(10M)
5. Give brief account on hierarchy of DNA structure from single stand to double helix?	(10M)
6. Explain about on Genetic material of DNA?	(10M)
7. Explain	
a. coding and decoding genetic information transfer .	(5M)
b. R-DNA duplication.	(5M)
8. Give an account on	
a. Proteins as enzymes.	(5M)
b. Protein as Structural elements.	(5M)
9. What are the functions & Structure of Proteins?	(10M)
10. Explain gene- complementation and recombination	(10M)
11. Describe Double Helical structure of D.N.A.	(10 M)

UNIT-5 (METABALIC PURPOSE)

1.	a). What are the photosystems ?	(2M)
	b). Difference between aerobic & unerobic respiration?	(2M)
	c). What are the general futures of TCA cycle?	(2M)
	d). What is sterilization?	(2M)
	e). Define stem cells & their functions?	(2M)
2.	Define glycolysis in detail.	(10M)
3.	Define kerbs cycle in detail.	(10M)
4.	Explain identification and classification of microorganisms.	(10M)
5.	What are the principles of energy transaction in physical and biological world?	(10M)
6.	Give an account on energy yielding and energy consuming reactions?	(10M)
7.	Define the sterilization process and media compositions.	(10M)
8.	Explain	
	a) ATP as energy currency	(5M)
	b) Photosynthesis	(5M)
9.	What are the growth kinetics.	(10M)
10	Define exothermic and endothermic reactions.	(10M)
11	. Explain about classification and identification of micro organism.	(10M)

SIDDARTH GROUP OF INSTITUTIONS :: PUTTUR Siddharth Nagar, Narayanavanam Road – 517583



BIT BANK

Subject with Code: BIOLOGY FOR ENGINEERS(18HS0803) Branches:MECH,CIVIL,EEE

Year &Sem: II-B.Tech&I-Sem **Regulation:** R18

UNIT-I

1. Name the type of bacteria which uses Co_2 as a solar source of carbon for growth.	[]
(A)Organotrophs (B)Heterotrophs (C) Autotrophs (D) Lithotrophs		
2. Name those bacteria which obtain energy from chemical compounds?	[]
(A) Chemotrophs (B) Phototrophs (C) Organotrophs (D) Lithotrophs		
3. Name the type of bacteria which uses reduced inorganic substances as an electron s	ources	
(A)Autotrophs (B) Chemotrophs (C) Organotrophs (D) Lithotrophs	[]
4. The science of identifying, classifying and naming living things is called?	[]
(A)Genus (B)Binomial Nomenclature(C)kingdom (D) Taxonomy		
5. An organism structure is called genus class morphology species	[]
(A)Genus (B)class(C)morphology (D) species		
6. Final classification also the last name in a Binomial Nomenclature?	[]
(A)Genus (B)class (C)Family (D) species		
7. The basic units of structure and functions for both plants and animals are	[]
(A)cell(B)organs (C)Tissues (D)systems		
8. Lowest category of taxonomic hierarchy is?	[]
(A)Taxon(B)rank (C) species (D) genus	_	_
9. How many obligate categories are there in taxonomic hierarchy	[]
(A)5(B)6 (C)7(D)4	-	
10. Who is the the father of Biology for zoology?	L]
(A)Aristotle (B)Theophrastus (C)William Roxburgh (D)Mendal	г	,
11. The three kingdom classification, the Kingdom prostia includes	L]
(A).unicellular Eukaryotic organisms only		
(B).unicellular prokaryotic organism only		
(C). Wide variety of unicellular ,mostly aquatic eukaryotes.(D). Mostly terrestrial prokaryotes.		
12. The major waste produced by human body are	Г	1
(A)carbondioxide (B) urea (C)both A and B (D)only B	L]
13. What type of nitrogenous wastes are excreated by living organisms?	ſ	1
(A)Ammonia (B)Uric acid(C)Urea (D)All the above	L	J
14. Eukaryotes are,	ſ	1
(A)unicellular (B) multicellular(C)both (D)neither	L	,
15.Bacteria is what kind of cell?	ſ]
(A)Eukaryotic (B) prokaryotic (C) both A and B (D)None of the Above.	_	-
16. The dark reaction in photo synthesis is called so because it?	[]
(A)Cannot occur during day time (B)It is light dependent		-
(C)It is light independent (D)Occurs rapidly at night		
Biology for engineers		

QUESTION BANK	2	2019
17. Which term is synonymous with producer?]
(A) Autotroph (B)Heterotroph(C)consumer (D)Decomposers		
]
(A) An animals that gets energy from eating other animals		
(B) Anorganisms that gets energy from eating only plants		
(C) Animals that gets energy biting both plants and other animals		
(D) None 19. Which of the following is called as "Drosophila" of the plant Kingdom? [Г	1
19. Which of the following is called as "Drosophila" of the plant Kingdom? (A)E.Coli (B)Drosophila (C)M.musculus (D)Arobidopsisthalina	-]
]
(A)E.Coli (B)S.Cervisea (C) C.eligans (D) D.Melanogasters	-	J
21. Binomial Nomenclature includes	-	1
(A)Genius, family (B) Genius, species (C) Genus, Sub-family (D)Species, sub-species	5	-
	[]
(A) Biosphere (B)Ecosystem (C)Population (D)Community		
23. The taxon"phylum" was introduced by]
(A) Haeckel (B) John Ray (C) A.Pdecondolle (D)Cinnacus		
24.Prokaryotic and Eukaryotic cells are generally have which of the following features in c	com	ımon?
(A)Membrane -bounded nucleus]
(B) A cell wall made of cellulose (C) Ribosomes		
(D)flagella (or) cillia that contains micro tubules		
25. The organisms which can use reduced inorganic compounds as electron donors are known (A)chemotrophs (B)organotrophs (C)lithotrophs (D)phototrophs [_	as
26 the process of acquiring oxygen from outside the body for Cellular needs is called	ſ	J J
(A)respiration (B)digestion (C)Oxidising (D)excretion	L	J
27 following are autotrophs [- I	1
(A)green plants (B)some bacteria (C)both a and b (D)enzymes	-	J
28. Carbon and energy requirements of the autotrophic organism are fulfilled by	-]
(A)enzymes(B)photosynthesis (C)bacteria (D)None of the Above		_
29.Urea production occurs almost exclusively in []
(A) Kidneys(B)liver(C)blood (D)urine		
]
(A)carbon dioxide (B) glucose (C)aspartic acid(D)Arginine		
31. Urea cycle converts	L]
(A)Keto acids into amino acids (B)Ammonia into a less toxic form		
(C)Amino acids into keto acids (D)Ammonia into a more toxic form	г	1
32. How many types of Aquatic ecosystems are there?	L]
(A)1 (B)2 (C)3 (D)4 33 where plants and animals live in aquatic ecosystems [г	1
(A) Water (B) land (C) Air (D) Fire	L	J
34. Where we can find both running water as well as stagnant water [_]
(A)Marine ecosystem (B)wetlands (C)coral reefs (D)freshwater ecosystem	ns	1
35. The organism used to study DNA replication [- L]
(A)Neurosporacrassa (B)Drosophila melanogaster (C)Escherichia coli (D)Bacillus	s su	blitis
Biology for engineers		

QUESTION BANK 2019
36.Saccharomycescervisiaeis an example of ?
(A)fungi (B)Yeast (C)bacteria (D)Insect
37. Musmusculus is used for research
(A)Cancer Research (B)To develop Genethrophy (C)Both a and b (D)none of the above
38. Which of the following types of genetic manipulations allow a researcher to experimentally
increase give expression Mouse model?
(A) Knocking (B) conditional knockout (C)Transgenic (D)knockout
39 which relates to why choosing an appropriate promoter is important when developing transgenic
organism?
(A)It directs where the DNA construct will be Incorporated
(B) It regulates the level and pattern of expression
(C) It is not important because enhancers regulate given expression
(D) It promotes stable, reliable, genetic incorporation into the host.
40. Which of the following organisms considered to be premier model organisms for the genetic
analysis of animal development []
(A)Drosophila (B)C elegans (C)Drosophila &C elegans (D)All the above

1. Crossing over occurs in which phase? (A) Telophase-I (B) Metaphase-II (C) Prophase-I (D) Prophase-II (D) Prophase-II (D) Prophase-II (D) Reductional division (D) multiplication division (E) Reductional division (D) multiplication division (D) Metaphase (D) G2 phase (D) M phase (D) M phase (D) Interface (D) Interface (D) Interface (D) Interface (D) Interface (D) Interface (D) Non-identical to each other (D) Non-identical to each other (D) Non-identical to parents (D) Irregular in size (E) The homologous chromosomes move towards the opposite poles during (A) Anaphase-I (B) Anaphase-II (C) leptotene (D) Pachytene (D) Pachytene (D) Pachytene (D) Herphase (B) Prophase (D) Metaphase (D) Metaphase (D) Metaphase (D) Telophase (D) Telophase (D) Interface (D) Reductional to parents (D) Irregular in size (E) Metaphase (D) Interplase (D) Pachytene (D) Pachytene (D) Pachytene (D) Pachytene (D) Pachytene (D) Pachytene (D) Telophase (E) Metaphase (D) Metaphase (D) It involves identifying a relative locations of genes. (C) It involves identifying a relative locations of genes. (C) It involves identifying traits (D) It involves identifying traits (D) It identifiable, chromosome (C) Identifiable, genes (B) unidentifiable, chromosome (C) Identifiable, defined as portions of a whose inheritance pattern can be followed. (A) unidentifiable, defined as percentage of the the total recombination events (A) one (B) ten (C) 0.1 (D) 0.01 [1] In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [1] (A) Dominant, Recessive (B) Recessive, Dominant (D) Epistatic, hypostatic (D) Hypostatic, epistatic (D)	A) Telophase-I (D) Prophase-II (D) Prophase-II (D) Prophase-II (D) Prophase-II (D) Prophase-II (E) Meiosis-I is? (E) A) Equational division (B) Homotypic division (C) Reductional division (D) multiplication division (D) Multiplication division (E) Reductional divisional division (E) Reductional divisional divi		QUESTION BA	.NK	2019
A) Telophase-I (C) Prophase-II (D) Prophase-II (D) Prophase-II (D) Prophase-II (E) Meiosis-I is? (A) Equational division (B) Homotypic division (C) Reductional division (D) multiplication division (E) Reductional division (D) multiplication division (E) Reductional division (D) multiplication division (E) Reductional divisional division (E) Reductional divisional divisio	A) Telophase-I (B) Metaphase-II (C) Prophase-II (D) Prophase (D) Multiplication division (D) M	1. Crossing over occurs in which p	hase?	1	1
C. Prophase-I 2. Meiosis-I is? 2. Meiosis-I is? 3. Dequational division (D) multiplication division (C) Reductional division (D) multiplication division 3. DNA replication occurs in? (A) S phase (B) G1 phase (C) G2 phase (D) M phase 4 represents the most active stage of the cell cycle. (A) Metaphase (B) Anaphase (C) Telophase (D) Interface 5. Two daughter cells formed after mitosis are? (D) Interface 5. Two daughter cells formed after mitosis are? (D) Irregular in size (D) Non-identical to each other (D) Non-identical to parents (D) Irregular in size (D) Pachytene (T) Rohomologous chromosomes move towards the opposite poles during (E) A) Anaphase-I (D) Pachytene (D) Pachytene (T) The chromosomes align at the equator during? (D) Heighase (D) Telophase (D) Heighase (D) Telophase (D) Heighase (D) Heighase (D) Heighase (E) Hi involves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifiable, chromosome (D) Identifiable, chromosome (E) Heighase (D) Identifiable, chromosome (D) Identifiable, genes (D) Identifiable, genes (D) Identifiable, chromosome (D) Identifiable, genes (D) Honomiant, Recessive (D) Hypostatic, epistatic (D) Hy	C) Prophase-I 2. Meiosis-I is? 3. Meiouational division C) Reductional division B) DNA replication occurs in? A) S phase B) G1 phase C) G2 phase C) DM phase C) Telophase C) Telophase C) Telophase C) Non-identical to each other C) Non-identical to parents D) Irregular in size The homologous chromosomes move towards the opposite poles during A) Anaphase-I C) Leptotene C) Deptotene C) Metaphase C) Metaphase C) Deptotene C) Deptotene C) Telophase C) Deptotene C) Telophase C) Deptotene C) Non-identical to parents C) Deptotene C) Non-identical to parents C) Deptotene C) Telophase C) Deptotene C) Deptotene C) Deptotene C) Telophase C) Metaphase C) Metaph	_		L	,
2. Meiosis-I is? (A) Equational division (B) Homotypic division (C) Reductional division (D) multiplication division (E) Reductional division (D) multiplication division (E) Robert (D) Methase (E) G2 phase (D) G2 phase (D) Methase (D) Methase (D) Interface (D) Interface (E) Two daughter cells formed after mitosis are? (D) Interface (E) Non-identical to each other (D) Intergular in size (E) The homologous chromosomes move towards the opposite poles during (E) A) Anaphase-I (D) Pachytene (D) Pachytene (D) Pachytene (D) Methaphase (E) Methaphase (D) Telophase (E) Methaphase (D) Telophase (E) Methaphase (D) Telophase (E) Methaphase (D) Methaphase (D) Telophase (E) Methaphase (E) Methaphase (E) Methaphase (D) Telophase (E) Methaphase (E	2. Meiosis-1 is? A) Equational division C) Reductional Color Reduc		• • •		
A) Equational division (D) multiplication division (C) Reductional division (D) multiplication division (D) multiplication division (D) multiplication division (D) multiplication division (D) Mphase (D) Interface (D) Interface (D) Interface (D) Interface (D) Mphase (D) Mphase (D) Interface (D) Mphase-II (D) Pachytene (D) Telophase (D) Telophase (D) Telophase (D) Telophase (D) Telophase (D) Telophase (D) It involves identifying a relative locations of genes. (D) It involves identifying a relative locations of genes (D) It involves identifying a relative locations of genes (D) Indentifiable, chromosome (D) identifiable, genes (D) Indentifiable, chromosome (D) identifiable, genes (D) Indentifiable, chromosome (D) identifiable, genes (D) Incertage of the the total recombination events (D) Incase of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called (D) Incominant, Recessive (D) Hypostatic, epistatic (D) Hypostatic, epistatic (D) Hypostatic, epistatic (D) Hypostatic, epistatic (D) Hypostatic, hypostatic (D) Hypostatic, epistatic (D) White (D) White (D) White (D) White (D) White (D) White (D)	A) Equational division (B) Homotypic division (C) Reductional division (D) multiplication division division division (D) Multiplication division division division (D) Multiplication division division division division division (D) Multiplication division di		(_ /	Γ	1
C) Reductional division (D) multiplication division (S). DNA replication occurs in ? [] [] (A) S phase (B) G1 phase (C) G2 phase (D) M phase (A) represents the most active stage of the cell cycle. [] [] (A) Metaphase (B) Anaphase (C) Telophase (D) Interface (D) Interface (D) Non-identical to each other (B) Identical to each other (C) Non-identical to each other (B) Identical to each other (C) Non-identical to parents (D) Irregular in size (C) Telophase (D) Irregular in size (D) Irregular in	C) Reductional division (D) multiplication division 8. DNA replication occurs in? A) S phase (B) GI phase C) G2 phase (D) M phase 6 represents the most active stage of the cell cycle. A) Metaphase (B) Anaphase C) Telophase (D) Interface 5. Two daughter cells formed after mitosis are? A) Non-identical to each other (B) Identical to each other C) Non-identical to parents (D) Irregular in size 5. The homologous chromosomes move towards the opposite poles during A) Anaphase-I (B) Anaphase-II C) leptotene (D) Pachytene 7. The chromosomes align at the equator during? A) Interphase (B) prophase C) Wetaphase (B) Telophase 8. Which of the following is untrue about the the genome mapping? A) It involves identifying a relative locations of genes. C) It involves identifying a relative locations of genes. C) Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] C) Identifiable, chromose (D) identifiable, genes (D) to chromosome is defined as percentage of the the total recombination events A) One (B) ten (C) O.1 (D) 0.01 [] 11. In case of two gene interaction, the gene which is masking the expression of another is called und the gene whose expression is is masked is called [] A) Dominant, Recessive (B) Recessive, Dominant C) Epistatic, hypostatic (D) Hypostatic, epistatic 12. Epistatis is the interaction between genes A) 2 (B) 4 (C) 8 (D) 16 13. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] A) Black (B) Albina (D) White 15. In case of dominant epistasis which of the following will have the same expression, when 'A' is he epistatic locus? (A) ABBa and aaBb (B) AAbb and AABb		(B)Homotypic division	L	J
3. DNA replication occurs in? (A) S phase (B) GI phase (C) G2 phase (D) M phase 4 represents the most active stage of the cell cycle. (A) Metaphase (B) Anaphase (C) Telophase (D) Interface 5. Two daughter cells formed after mitosis are? (A) Non-identical to each other (B) Identical to each other (C) Non-identical to parents (D) Irregular in size 6. The homologous chromosomes move towards the opposite poles during (A) Anaphase-I (C) leptotene (D) Pachytene (D) Pachytene (D) Pachytene (D) Telophase (D) Metaphase (D) Telophase (D) Telophase (D) Telophase (D) Telophase (D) It involves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifiable, genes (C) Identifiable, chromosome (D) identifiable, chromosome (D) identifiable, genes (D) identifiabl	A) S phase (B) G1 phase C) G2 phase (D) M phase L represents the most active stage of the cell cycle. A) Metaphase (B) Anaphase C) Telophase (B) Anaphase C) Telophase (B) Anaphase C) Telophase (B) Interface S. Two daughter cells formed after mitosis are? C) Telophase (B) Interface S. Two daughter cells formed after mitosis are? C) Non-identical to each other (B) Identical to each other C) Non-identical to parents (D) Irregular in size S. The homologous chromosomes move towards the opposite poles during A) Anaphase-I C) leptotene (D) Pachytene C) Henomosomes align at the equator during? A) Interphase (B) prophase C) Metaphase (B) Telophase C) Metaphase (B) Telophase C) Metaphase (D) Telophase C) Henomosomes identifying a relative locations of genes. C) It involves identifying traits (D) It identifying mutations. C) Genetic markers are—portions of awhose inheritance pattern can be followed. A) unidentifiable, genes (C) Identifiable, chromose (D) identifiable, genes (D) Hypostatic, peptatic, hypostatic (D) Hypostatic, epistatic (D) Hypostatic	` ' •			
A) S phase (C) G2 phase (D) M phase 4 represents the most active stage of the cell cycle. (A) Metaphase (B) Anaphase (C) Telophase (D) Interface 5. Two daughter cells formed after mitosis are? (D) Interface 5. Two daughter cells formed after mitosis are? (C) Non-identical to each other (D) Irregular in size (E) The homologous chromosomes move towards the opposite poles during (A) Anaphase-I (B) Anaphase-II (C) leptotene (D) Pachytene (The chromosomes align at the equator during? (A) Interphase (B) prophase (C) Metaphase (B) Telophase (B) Prophase (C) Metaphase (D) Telophase (D) Telophase (D) It involves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifying mutations. (A) unidentifiable, genes (B) unidentifiable, chromosome (C) Identifiable, chromose (D) identifiable, genes (D) one chromosome is defined as percentage of the the total recombination events (A) one (B) ten (C) O.1 (D) O.0 (B) ten (C) B, Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic (D) Hypostatic, epistatic (D) Epistatic, hypostatic (D) Hypostatic, epistatic (D) Hypostatic, e	A) S phase (B) G1 phase (C) G2 phase (D) M phase (D) M phase (E) G2 phase (D) M phase (B) Anaphase (B) Anaphase (D) Interface (D) Interface (D) Interface (D) Mon-identical to each other (E) Interface (D) Interfac			Г	1
(C) G2 phase (D) M phase 4 represents the most active stage of the cell cycle. (A) Metaphase (B) Anaphase (C) Telophase (D) Interface 5. Two daughter cells formed after mitosis are? (A) Non-identical to each other (B) Identical to each other (C) Non-identical to parents (D) Irregular in size 6. The homologous chromosomes move towards the opposite poles during (A) Anaphase-I (B) Anaphase-II (C) leptotene (D) Pachytene 7. The chromosomes align at the equator during? (B) Prophase (C) Metaphase (B) prophase (C) Metaphase (D) Telophase (C) Metaphase (D) Telophase (C) Hi volves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifying mutations. (C) Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, genes (C) Identifiable, chromose (D) identifiable, genes (D) one chromosome is defined as percentage of the the total recombination events (A) one (B) ten (C)(D.1 (D)(D.01 []) (A) Dominant, Recessive (B) Recessive, Dominant (C)Epistatic, hypostatic (D) Hypostatic, epistatic (L2. Epistatis is the interaction between genes [] (A) Dominant, Recessive (B) (C) 8 (D) 16 (B) 40(C) 8 (D) 16 (B) 96:1 (C) 9:3:4:1 (D) 9:3:4 (B) Alack (B) Albina (C) Agouti (D) White (5. In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus? []	C) G2 phase (D) M phase L represents the most active stage of the cell cycle. [] A) Metaphase (B) Anaphase C) Telophase (D) Interface S. Two daughter cells formed after mitosis are? [] A) Non-identical to each other (B) Identical to each other C) Non-identical to parents (D) Irregular in size S. The homologous chromosomes move towards the opposite poles during [] A) Anaphase-I (B) Anaphase-II C) leptotene (D) Pachytene The chromosomes align at the equator during? [] A) Interphase (B) prophase S. Which of the following is untrue about the the genome mapping? [] A) It doesn't lead to the understanding a genome structure B) It involves identifying raits (D) It identifying mutations. O. Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, genes (D) Identifiable, chromose (D) identifiable, genes (I) In one chromosome is defined as percentage of the the total recombination events A) one (B) ten (C) (D) (D) (D) (D) (I) [] I In case of two gene interaction, the gene which is masking the expression of another is called und the gene whose expression is is masked is called [] A) Dominant, Recessive (B) Recessive, Dominant (C)Epistatic, hypostatic (D) Hypostatic, epistatic (L2:Epistatis is the interaction between genes [] A) Black (B) 4(C) 8 (D) 16 (J) White (J) Haba and aaBb (B) AAbb and AABb	-	(B) G1 phase	L	J
4. — represents the most active stage of the cell cycle. [] (A) Metaphase (B) Anaphase (C) Telophase (D) Interface (D) Non-identical to each other (B) Identical to each other (C) Non-identical to parents (D) Irregular in size (D) Irregular in size (D) Irregular in size (D) Anaphase-I (D) Pachytene (D) Telophase (D) Telop	A. ——represents the most active stage of the cell cycle. A) Metaphase (B) Anaphase C) Telophase (D) Interface C) Telophase (D) Interface C) Non-identical to each other (B) Identical to each other C) Non-identical to parents (D) Irregular in size C) The homologous chromosomes move towards the opposite poles during C) leptotene (D) Pachytene C) The chromosomes align at the equator during? A) Anaphase-I C) leptotene (B) Anaphase-II C) leptotene (D) Pachytene C) Metaphase (B) prophase C) Metaphase (B) prophase C) Metaphase (D) Telophase C) Metaphase (D) Telophase C) It involves identifying a relative locations of genes. C) It involves identifying traits (D) It identifying mutations. D) Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] C) Identifiable, chromose (D) identifiable, genes C) One chromosome is defined as percentage of the the total recombination events A) One (B) ten (C) O.1 (D) O.01 [] C) I. In case of two gene interaction, the gene which is masking the expression of another is called und the gene whose expression is is masked is called [] C) Epistatic, hypostatic (D) Hypostatic, epistatic C) Epistatis is the interaction between genes [] C) Epistatis is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] C) A) Black (B) A(C) 8 (D) 16 C) Agouti (D) White C) Agouti (D) White C) In case of dominant epistasis which of the following will have the same expression, when 'A' is he epistatic locus? [] C) A) ABBa and aaBb (B) AAbb and AABb		_		
(A) Metaphase (B) Anaphase (C) Telophase (D) Interface (D) Interface (D) Interface (E) Two daughter cells formed after mitosis are? [] (A) Non-identical to each other (B) Identical to each other (C) Non-identical to parents (D) Irregular in size (E)	A) Metaphase (B) Anaphase (C) Telophase (D) Interface (D) Pachytene (D) Pachytene (D) Pachytene (D) Pachytene (D) Pachytene (D) Interface (D)	· · · •	· · · · · · · · · · · ·	Г	1
(C) Telophase (D) Interface (5. Two daughter cells formed after mitosis are? [] (A) Non-identical to each other (B) Identical to each other (C) Non-identical to parents (D) Irregular in size (S. The homologous chromosomes move towards the opposite poles during [] (A) Anaphase-I (B) Anaphase-II (C) leptotene (D) Pachytene (D) Pachytene (D) Pachytene (D) Pachytene (D) Telophase (D) It involves identifying a relative locations of genes. (C) It involves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifying mutations. (D) Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes (C) Telophase (D) Interface 5. Two daughter cells formed after mitosis are? [] A) Non-identical to each other (B) Identical to each other C) Non-identical to parents (D) Irregular in size 5. The homologous chromosomes move towards the opposite poles during [] A) Anaphase-I (B) Anaphase-II C) leptotene (D) Pachytene 7. The chromosomes align at the equator during? [] A) Interphase (B) prophase C) Metaphase (B) Telophase 8. Which of the following is untrue about the the genome mapping? [] (A) It doesn't lead to the understanding a genome structure B) It involves identifying a relative locations of genes. C) It involves identifying traits (D) It identifying mutations. D. Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes (I) one chromosome is defined as percentage of the the total recombination events A) one (B) ten (C) 0.1 (D) 0.01 [] I1. In case of two gene interaction, the gene which is masking the expression of another is called und the gene whose expression is is masked is called [] A) Dominant, Recessive (B) Recessive, Dominant C) Epistatic, hypostatic (D) Hypostatic, epistatic 2. Epistatis is the interaction between genes [] A)2 (B)4 (C)8 (D)16 (3. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] A)9:3:3:1 (B)9:6:1 (C)9:3:4:1 (D)9:3:4 (4. Which of the following has dominant allele in both gene locus? [] A) Black (B) Albina (C) Agouti (D) White (5. In case of dominant epistasis which of the following will have the same expression, when 'A' is he epistatic locus? [] A) AaBa and aaBb (B) AAbb and AABb	-	•	L	1
5. Two daughter cells formed after mitosis are? (A) Non-identical to each other (B) Identical to each other (C) Non-identical to parents (D) Irregular in size 5. The homologous chromosomes move towards the opposite poles during (A) Anaphase-I (C) leptotene (D) Pachytene 7. The chromosomes align at the equator during? (A) Interphase (B) prophase (C) Metaphase (B) prophase (C) Metaphase (D) Telophase (D) Telophase (E) Mit doesn't lead to the understanding a genome structure (B) It involves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifying mutations. (A) unidentifiable, genes (B) unidentifiable, chromosome (C) Identifiable, chromose (D) identifiable, genes (D) identifiab	S. Two daughter cells formed after mitosis are? (A) Non-identical to each other (B) Identical to each other (C) Non-identical to parents (D) Irregular in size (D) Anaphase-I (E) Anaphase-I (B) Anaphase-II (C) leptotene (D) Pachytene (D) Pachytene (D) Pachytene (D) Rechytene (D) Mataphase (D) Mataphase (D) Mataphase (D) Mataphase (D) Mataphase (D) Mataphase (D) Telophase (D) It involves identifying a relative locations of genes. (D) It involves identifying traits (D) It identifying mutations. (D) Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (D) identifiable, chromosome (D) identifiable, genes (D) identifiable, chromosome (D) identifiable, genes (D) identifiabl	` ′ _			
(A) Non-identical to each other (C) Non-identical to parents (D) Irregular in size 5.The homologous chromosomes move towards the opposite poles during (A) Anaphase-I (B) Anaphase-I (C) leptotene (D) Pachytene 7. The chromosomes align at the equator during? (A) Interphase (B) prophase (C) Metaphase (C) Metaphase (D) Telophase (E) Metaphase (D) Telophase (E) Michich of the following is untrue about the the genome mapping? (C) It involves identifying a relative locations of genes. (C) It involves identifying a relative locations of genes. (C) It involves identifying a relative locations of awhose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes (D) one chromosome is defined as percentage of the the total recombination events (A) one (B) ten (C) 0.1 (D) 0.01 [] (A) Dominant, Recessive (B) Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic (D) Hypostatic,	A) Non-identical to each other C) Non-identical to parents (D) Irregular in size 5.The homologous chromosomes move towards the opposite poles during (A) Anaphase-I (B) Anaphase-I (C) leptotene (D) Pachytene 7. The chromosomes align at the equator during? (A) Interphase (B) prophase (C) Metaphase (D) Telophase 8. Which of the following is untrue about the the genome mapping? (A) It doesn't lead to the understanding a genome structure (B) It involves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifying mutations. (A) unidentifiable, genes (B) unidentifiable, chromosome (C) Identifiable, chromose (D) identifiable, genes (D) one chromosome is defined as percentage of the the total recombination events (A) one (B) ten (C) 0.1 (D) 0.01 [] (I) In case of two gene interaction, the gene which is masking the expression of another is called (B) Dominant, Recessive (B) Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic (D) Hypostatic, epistatic (D) Hypostatic, epistatic (E) Epistatis is the interaction between genes [] (A) 2 (B) 4 (C) 8 (D) 16 (D) 9:3:4 (A) What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) Black (B) Albina (C) Agouti (D) White (5) In case of dominant epistasis which of the following will have the same expression, when 'A' is he epistatic locus? [] (A) AaBa and aaBb (B) AAbb and AABb	· · · · · · · · · · · · · · · · · · ·		г	1
C) Non-identical to parents (D) Irregular in size 5. The homologous chromosomes move towards the opposite poles during [] (A) Anaphase-I (B) Anaphase-II (C) leptotene (D) Pachytene 7. The chromosomes align at the equator during? [] (A) Interphase (B) prophase (C) Metaphase (D) Telophase 8. Which of the following is untrue about the the genome mapping? [] (A) It doesn't lead to the understanding a genome structure (B) It involves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifying mutations. (C) Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes 10. one chromosome is defined as percentage of the the total recombination events (A) one (B) ten (C) 0.1 (D) 0.01 [] 11. In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] (A) Dominant, Recessive (B) Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic 12. Epistatis is the interaction between genes [] (A) 2 (B) 4 (C) 8 (D) 16 13. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 14. Which of the following has dominant allele in both gene locus? [] (A) Black (B) Albina (C) Agouti (D) White 15. In case of dominant epistasis which of the following will have the same expression, when 'A' is it the epistatic locus? []	C) Non-identical to parents (D) Irregular in size 5. The homologous chromosomes move towards the opposite poles during A) Anaphase-I (B) Anaphase-II (C) leptotene (D) Pachytene 7. The chromosomes align at the equator during? 8. M Interphase (B) prophase (C) Metaphase (D) Telophase (E) Metaphase (D) Telophase (E) Metaphase (E) Metaph	_		L]
S.The homologous chromosomes move towards the opposite poles during (A) Anaphase-I (B) Anaphase-II (C) leptotene (D) Pachytene (T) The chromosomes align at the equator during? (A) Interphase (B) prophase (C) Metaphase (D) Telophase (E) Metaphase (D) Telophase (E) Metaphase (E) Metaphase (D) Telophase (E) Metaphase (I) Telophase (I) It identifying is untrue about the the genome mapping? (I) It involves identifying a relative locations of genes. (I) It involves identifying traits (I) It identifying mutations. (I) Genetic markers are portions of a whose inheritance pattern can be followed. (I) Unidentifiable, genes (I) Unidentifiable, chromose (I) Identifiable, chromose (I) Identifiable, chromose (I) Identifiable, genes (I) Unidentifiable, gene	5.The homologous chromosomes move towards the opposite poles during A) Anaphase-I B) Anaphase-II C) leptotene D) Pachytene The chromosomes align at the equator during? A) Interphase B) prophase C) Metaphase C) Metaphase B) Which of the following is untrue about the the genome mapping? A) It doesn't lead to the understanding a genome structure B) It involves identifying a relative locations of genes. C) It involves identifying traits D) It identifying mutations. D) Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] C) Identifiable, chromose (D) identifiable, genes (D) one chromosome is defined as percentage of the the total recombination events A) one (B) ten (C) 0.1 (D) 0.01 [] 11 In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] A) Dominant, Recessive (B) Recessive, Dominant C) Epistatic, hypostatic (D) Hypostatic, epistatic (2. Epistatis is the interaction between genes [] A) 2 (B) 4 (C) 8 (D) 16 3. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] A) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 4. Which of the following has dominant allele in both gene locus? [] A) Black (B) Albina C) Agouti (D) White 15 In case of dominant epistasis which of the following will have the same expression, when 'A' is he epistatic locus? [] A) AaBa and aaBb (B) AAbb and AABb				
(A) Anaphase-I (B) Anaphase-II (C) leptotene (D) Pachytene (7. The chromosomes align at the equator during? (A) Interphase (B) prophase (C) Metaphase (D) Telophase (B) Which of the following is untrue about the the genome mapping? (A) It doesn't lead to the understanding a genome structure (B) It involves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifying mutations. (C) Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes (I) one chromosome is defined as percentage of the the total recombination events (A) one (B) ten (C) 0.1 (D) 0.01 [] (A) In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] (A) Dominant, Recessive (B) Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic (D) Hypostatic, epistatic (D) Hypostatic, epistatic (D) Hypostatic, epistatic (D) 16 (A) What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) Black (B) Albina (C) Agouti (D) White (D) White (D) White (D) White (D) In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus? (E) In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus? (E) In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus? (E) In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus? (E) In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus?	A) Anaphase-I (B) Anaphase-II (C) leptotene (D) Pachytene (T) The chromosomes align at the equator during? (E) A) Interphase (E) Metaphase (· /		-	-
(C) leptotene (D) Pachytene (7. The chromosomes align at the equator during? [] (A) Interphase (B) prophase (C) Metaphase (D) Telophase (B) Which of the following is untrue about the the genome mapping? [] (A) It doesn't lead to the understanding a genome structure (B) It involves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifying mutations. 9. Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes (D) one chromosome is defined as percentage of the the total recombination events (A) one (B) ten (C)0.1 (D) 0.01 [] (D) 0.01 [] (D) 0.01 [] (D) 0.01 (D)	C) leptotene (D) Pachytene 7. The chromosomes align at the equator during? [] A) Interphase (B) prophase C) Metaphase (D) Telophase 8. Which of the following is untrue about the the genome mapping? [] (A) It doesn't lead to the understanding a genome structure B) It involves identifying a relative locations of genes. C) It involves identifying traits (D) It identifying mutations. D. Genetic markers are portions of awhose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes 10. one chromosome is defined as percentage of the the total recombination events A) one (B) ten (C) 0.1 (D) 0.01 [] 11. In case of two gene interaction, the gene which is masking the expression of another is called und the gene whose expression is is masked is called [] A) Dominant, Recessive (B) Recessive, Dominant C) Epistatic, hypostatic (D) Hypostatic, epistatic 12. Epistatis is the interaction between genes	· ·		L	j
7. The chromosomes align at the equator during? (A) Interphase (B) prophase (C) Metaphase (D) Telophase (E) Metaphase (D) Telophase (E) Metaphase (E) It involves identifying a relative locations of genes. (E) It involves identifying traits (E) It involves identifying a relative locations of genes. (E) It involves identifying traits (E) It involves identifying a relative locations of genes. (E) It involves identifying a relative locations of genes. (E) It involves identifying a relative locations of genes. (E) It involves identifying a relative locations of genes. (E) It involves identifying a genome structure (E) It involves identifying traits (E) It involves identifying a genome structure (E) It involves identifying traits (E) It involves identifies (E) It involves identifies (E) It involves id	7. The chromosomes align at the equator during? (B) prophase (C) Metaphase (D) Telophase (E) Which of the following is untrue about the the genome mapping? (A) It doesn't lead to the understanding a genome structure (B) It involves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifying mutations. (C) Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes (O) one chromosome is defined as percentage of the the total recombination events (A) one (B) ten (C) 0.1 (D) 0.01 [] (I) In case of two gene interaction, the gene which is masking the expression of another is called und the gene whose expression is is masked is called (E) Epistatic, hypostatic (D) Hypostatic, epistatic (D) Hypostatic (D) 16 (B) What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) Which of the following has dominant allele in both gene locus? [] (A) Black (B) Albina (C) Agouti (D) White (D) White (E) In case of dominant epistasis which of the following will have the same expression, when 'A' is the epistatic locus? [] (A) AaBa and aaBb (B) AAbb and AABb	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · ·		
(A) Interphase (B) prophase (C) Metaphase (D) Telophase (B) Which of the following is untrue about the the genome mapping? (C) It doesn't lead to the understanding a genome structure (B) It involves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifying mutations. (C) Genetic markers are portions of awhose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes (I) one chromosome is defined as percentage of the the total recombination events (A) one (B) ten (C) (D, 1 (D) 0, 0, 0, 0, 0) (C) Epistatic, hypostatic (D) Hypostatic, epistatic (C) Epistatic, hypostatic (D) Hypostatic, epistatic (D) Epistatic, hypostatic (D) Hypostatic, epistatic (D) Epistatis is the interaction between genes [] (A) 2 (B) 4 (C) 8 (D) 16 (B) 3. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 (C) Agouti (D) White (C) Agouti (D) White (D) Shabasis which of the following will have the same expression, when 'A' is in the epistatic locus? []	A) Interphase (B) prophase C) Metaphase (D) Telophase B. Which of the following is untrue about the the genome mapping? [] (A) It doesn't lead to the understanding a genome structure B) It involves identifying a relative locations of genes. C) It involves identifying traits (D) It identifying mutations. D. Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes 10. one chromosome is defined as percentage of the the total recombination events A) one (B) ten (C) 0.1 (D) 0.01 [] 11. In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] A) Dominant, Recessive (B) Recessive, Dominant C) Epistatic, hypostatic (D) Hypostatic, epistatic 12. Epistatis is the interaction between genes [] A) 2 (B) 4 (C) 8 (D) 16 13. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 14. Which of the following has dominant allele in both gene locus? [] A) Black (B) Albina C) Agouti (D) White 15. In case of dominant epistasis which of the following will have the same expression, when 'A' is the epistatic locus? [] A) AaBa and aaBb (B) AAbb and AABb	_			
(C) Metaphase (D) Telophase 8. Which of the following is untrue about the the genome mapping? [] (A) It doesn't lead to the understanding a genome structure (B) It involves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifying mutations. 9. Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes 10. one chromosome is defined as percentage of the the total recombination events (A) one (B) ten (C) 0.1 (D) 0.01 [] 11. In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] (A) Dominant, Recessive (B) Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic 12. Epistatis is the interaction between genes [] (A) 2 (B) 4 (C) 8 (D) 16 13. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 14. Which of the following has dominant allele in both gene locus? [] (A) Black (B) Albina (C) Agouti (D) White 15. In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus? []	C) Metaphase (D) Telophase 3. Which of the following is untrue about the the genome mapping? [] (A) It doesn't lead to the understanding a genome structure B) It involves identifying a relative locations of genes. C) It involves identifying traits (D) It identifying mutations. D) Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes (I) one chromosome is defined as percentage of the the total recombination events A) one (B) ten (C) 0.1 (D) 0.01 [] (I) In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] (A) Dominant, Recessive (B) Recessive, Dominant C) Epistatic, hypostatic (D) Hypostatic, epistatic (2) Epistatis is the interaction between genes [] A) 2 (B) 4 (C) 8 (D) 16 (3) What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 (4) Which of the following has dominant allele in both gene locus? [] A) Black (B) Albina C) Agouti (D) White (5) In case of dominant epistasis which of the following will have the same expression, when 'A' is the epistatic locus? [] A) AaBa and aaBb (B) AAbb and AABb	_	-	[]
8. Which of the following is untrue about the the genome mapping? (A) It doesn't lead to the understanding a genome structure (B) It involves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifying mutations. 9. Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, genes (C) Identifiable, chromose (D) identifiable, genes 10. one chromosome is defined as percentage of the the total recombination events (A) one (B) ten (C) 0.1 (D) 0.01 [] 11. In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] (A) Dominant, Recessive (B) Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic 12. Epistatis is the interaction between genes [] (A) 2 (B) 4 (C) 8 (D) 16 13. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 14. Which of the following has dominant allele in both gene locus? [] (A) Black (B) Albina (C) Agouti (D) White 15. In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus? []	8. Which of the following is untrue about the the genome mapping? (A) It doesn't lead to the understanding a genome structure B) It involves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifying mutations. (A) Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as	(A) Interphase			
(A) It doesn't lead to the understanding a genome structure (B) It involves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifying mutations. (D) Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes (I) one chromosome is defined as percentage of the the total recombination events (A) one (B) ten (C) 0.1 (D) 0.01 [] (A) In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] (A) Dominant, Recessive (B) Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic (D) Hypostatic, epistatic (D) Hypostatic, epistatic (D) 16 (A) What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 (D) 9:3:4 (D) Black (E) Agouti (D) White (D) Sin case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus? []	(A) It doesn't lead to the understanding a genome structure (B) It involves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifying mutations. (A) Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes (O) one chromosome is defined as percentage of the the total recombination events (A) one (B) ten (C) 0.1 (D) 0.01 [] (I) In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] (A) Dominant, Recessive (B) Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic (2) Epistatis is the interaction between genes [] (A) 2 (B) 4 (C) 8 (D) 16 (B) 4.3 What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 (A) Which of the following has dominant allele in both gene locus? [] (A) Black (B) Albina (C) Agouti (D) White (D) White (E) In case of dominant epistasis which of the following will have the same expression, when 'A' is the epistatic locus? [] (B) AABB and aaBb (B) AAbb and AABb	(C) Metaphase	(D) Telophase		
(B) It involves identifying a relative locations of genes. (C) It involves identifying traits (D) It identifying mutations. (A) Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes (I) One chromosome is defined as percentage of the the total recombination events (A) One (B) ten (C) O.1 (D) O.01 [] (A) In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] (A) Dominant, Recessive (B) Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic (12. Epistatis is the interaction between genes [] (A) 2 (B) 4 (C) 8 (D) 16 (B) 3. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 (A) Which of the following has dominant allele in both gene locus? [] (A) Black (B) Albina (C) Agouti (D) White (D) S. In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus? []	B) It involves identifying a relative locations of genes. C) It involves identifying traits (D) It identifying mutations. C) Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the	8. Which of the following is untrue	e about the the genome mapping?	[]
(C) It involves identifying traits (D) It identifying mutations. (A) Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes (I) one chromosome is defined as percentage of the the total recombination events (A) one (B) ten (C) 0.1 (D) 0.01 [] (A) I. In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] (A) Dominant, Recessive (B) Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic (12. Epistatis is the interaction between genes [] (A) 2 (B) 4 (C) 8 (D) 16 (B) 3. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 (A) Which of the following has dominant allele in both gene locus? [] (A) Black (B) Albina (C) Agouti (D) White (D) White (D) It identifiable, chromosome inheritance pattern can be following will have the same expression, when 'A' is in the epistatic locus? []	C) It involves identifying traits (D) It identifying mutations. O. Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes (I) one chromosome is defined as percentage of the the total recombination events (B) ten (C) O.1 (D) O.01 [] (I) In case of two gene interaction, the gene which is masking the expression of another is called (I) the degree whose expression is is masked is called [] (I) A) Dominant, Recessive (B) Recessive, Dominant (I) Epistatic, hypostatic (D) Hypostatic, epistatic (I) Epistatis is the interaction between genes [] (I) A) (I) (I) (I) (I) (I) (I) (I) (I) (I) (I	(A) It doesn't lead to the understan	ading a genome structure		
O. Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes	O. Genetic markers are portions of a whose inheritance pattern can be followed. (A) unidentifiable, genes	(B) It involves identifying a relativ	e locations of genes.		
(A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes 10. one chromosome is defined as percentage of the the total recombination events (A) one (B) ten (C) 0.1 (D) 0.01 [] 11. In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] (A) Dominant, Recessive (B) Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic 12. Epistatis is the interaction between genes [] (A) 2 (B) 4 (C) 8 (D) 16 13. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 14. Which of the following has dominant allele in both gene locus? [] (A) Black (B) Albina (C) Agouti (D) White 15. In case of dominant epistasis which of the following will have the same expression, when 'A' is ithe epistatic locus? []	(A) unidentifiable, genes (B) unidentifiable, chromosome [] (C) Identifiable, chromose (D) identifiable, genes (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined as percentage of the the total recombination events (I) one chromosome is defined set percentage of the the total recombination events (I) one chromosome is defined set percentage of the the total recombination events (I) one chromosome is defined set percentage of the the total recombination events (I) one chromosome is defined set percentage of the the total recombination events (I) one chromosome is defined set percentage of the the total recombination events (I) one chromosome is defined set percentage of the the total recombination events (I) one chromosome is defined set	(C) It involves identifying traits	(D) It identifying mutations.		
(C) Identifiable, chromose (D) identifiable, genes 10. one chromosome is defined as percentage of the the total recombination events (A) one (B) ten (C) 0.1 (D) 0.01 [] 11. In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] (A) Dominant, Recessive (B) Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic 12. Epistatis is the interaction between genes [] (A) 2 (B) 4 (C) 8 (D) 16 13. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 14. Which of the following has dominant allele in both gene locus? [] (A) Black (B) Albina (C) Agouti (D) White 15. In case of dominant epistasis which of the following will have the same expression, when 'A' is it the epistatic locus? []	(C) Identifiable, chromose (D) identifiable, genes [10. one chromosome is defined as percentage of the the total recombination events A) one (B) ten (C) 0.1 (D) 0.01 [] [11. In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] A) Dominant, Recessive (B) Recessive, Dominant C) Epistatic, hypostatic (D) Hypostatic, epistatic [2. Epistatis is the interaction between genes	9. Genetic markers are port	ions of awhose inheritance pattern can be for	ollov	ved.
10. one chromosome is defined as percentage of the the total recombination events (A) one (B) ten (C) 0.1 (D) 0.01 [] 11. In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] (A) Dominant, Recessive (B) Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic 12. Epistatis is the interaction between genes [] (A) 2 (B) 4 (C) 8 (D) 16 13. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 14. Which of the following has dominant allele in both gene locus? [] (A) Black (B) Albina (C) Agouti (D) White 15. In case of dominant epistasis which of the following will have the same expression, when 'A' is it the epistatic locus? []	A) One chromosome is defined as percentage of the the total recombination events A) one (B) ten (C) 0.1 (D) 0.01 [] II .In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] A) Dominant, Recessive (B) Recessive, Dominant C) Epistatic, hypostatic (D) Hypostatic, epistatic I2. Epistatis is the interaction between genes [] A) 2 (B) 4 (C) 8 (D) 16 I3. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 I4. Which of the following has dominant allele in both gene locus? [] A) Black (B) Albina C) Agouti (D) White I5. In case of dominant epistasis which of the following will have the same expression, when 'A' is the epistatic locus? [] A) AaBa and aaBb (B) AAbb and AABb	(A) unidentifiable, genes	(B) unidentifiable, chromosome	[]
(A) one (B) ten (C) 0.1 (D) 0.01 [] 11 In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] (A) Dominant, Recessive (B) Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic 12. Epistatis is the interaction between genes [] (A) 2 (B) 4 (C) 8 (D) 16 13. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 14. Which of the following has dominant allele in both gene locus? [] (A) Black (B) Albina (C) Agouti (D) White 15 In case of dominant epistasis which of the following will have the same expression, when 'A' is it the epistatic locus? []	A)one (B) ten (C)0.1 (D) 0.01 [] I. In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] A) Dominant, Recessive (B) Recessive, Dominant C)Epistatic, hypostatic (D) Hypostatic, epistatic I. Epistatis is the interaction between genes [] A)2 (B)4 (C)8 (D) 16 I. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] A)9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 I. Which of the following has dominant allele in both gene locus? [] A) Black (B) Albina C) Agouti (D) White I. In case of dominant epistasis which of the following will have the same expression, when 'A' is the epistatic locus? [] A) AaBa and aaBb (B) AAbb and AABb	(C) Identifiable, chromose	(D) identifiable, genes		
(A) one (B) ten (C) 0.1 (D) 0.01 [] 11 In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] (A) Dominant, Recessive (B) Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic 12. Epistatis is the interaction between genes [] (A) 2 (B) 4 (C) 8 (D) 16 13. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 14. Which of the following has dominant allele in both gene locus? [] (A) Black (B) Albina (C) Agouti (D) White 15 In case of dominant epistasis which of the following will have the same expression, when 'A' is it the epistatic locus? []	A)one (B) ten (C)0.1 (D) 0.01 [] I. In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] A) Dominant, Recessive (B) Recessive, Dominant C)Epistatic, hypostatic (D) Hypostatic, epistatic I. Epistatis is the interaction between genes [] A)2 (B)4 (C)8 (D) 16 I. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] A)9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 I. Which of the following has dominant allele in both gene locus? [] A) Black (B) Albina C) Agouti (D) White I. In case of dominant epistasis which of the following will have the same expression, when 'A' is the epistatic locus? [] A) AaBa and aaBb (B) AAbb and AABb	10. one chromosome is defined as_	percentage of the the total recombination eve	nts	
In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] (A) Dominant, Recessive (B) Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic 12. Epistatis is the interaction between genes [] (A) 2 (B) 4 (C) 8 (D) 16 13. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 14. Which of the following has dominant allele in both gene locus? [] (A) Black (B) Albina (C) Agouti (D) White 15. In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus? []	In case of two gene interaction, the gene which is masking the expression of another is called and the gene whose expression is is masked is called [] A) Dominant, Recessive (B) Recessive, Dominant C)Epistatic, hypostatic (D) Hypostatic, epistatic I2.Epistatis is the interaction between genes [] A)2 (B)4 (C)8 (D) 16 I3. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] A)9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 I4. Which of the following has dominant allele in both gene locus? [] A) Black (B) Albina C) Agouti (D) White I5. In case of dominant epistasis which of the following will have the same expression, when 'A' is the epistatic locus? [] A) AaBa and aaBb (B) AAbb and AABb			-	1
and the gene whose expression is is masked is called [] (A) Dominant, Recessive (B) Recessive, Dominant (C) Epistatic, hypostatic (D) Hypostatic, epistatic (12. Epistatis is the interaction between genes [] (A) 2 (B) 4 (C) 8 (D) 16 (13. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A) 9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 (14. Which of the following has dominant allele in both gene locus? [] (A) Black (B) Albina (C) Agouti (D) White (I5 .In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus? []	and the gene whose expression is is masked is called [] A) Dominant, Recessive (B) Recessive, Dominant C)Epistatic, hypostatic (D) Hypostatic, epistatic 2.Epistatis is the interaction between genes [] A)2 (B)4 (C)8 (D) 16 3. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] A)9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 4. Which of the following has dominant allele in both gene locus? [] A) Black (B) Albina C) Agouti (D) White 15 In case of dominant epistasis which of the following will have the same expression, when 'A' is the epistatic locus? [] A) AaBa and aaBb (B) AAbb and AABb	` ´	the gene which is masking the expression of anothe		called
(A) Dominant, Recessive (B) Recessive, Dominant (C)Epistatic, hypostatic (D) Hypostatic, epistatic (12.Epistatis is the interaction between genes [] (A)2 (B)4 (C) 8 (D) 16 (A)9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 (A)9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 (A) Black (B)Albina (C) Agouti (D) White (B) In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus? []	A) Dominant, Recessive (B) Recessive, Dominant (C)Epistatic, hypostatic (D) Hypostatic, epistatic (12.Epistatis is the interaction between genes [] (A)2 (B)4 (C)8 (D) 16 (B)3. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (B)9:3:3:1 (B)9:6:1 (C)9:3:4:1 (D)9:3:4 (B)4. Which of the following has dominant allele in both gene locus? [] (B) Albina (C) Agouti (D) White (E)5. In case of dominant epistasis which of the following will have the same expression, when 'A' is the epistatic locus? [] (B) AABB and aaBb (B) AAbb and AABb	_			
(C)Epistatic, hypostatic (D) Hypostatic, epistatic 12.Epistatis is the interaction between genes [] (A)2 (B)4 (C) 8 (D) 16 13. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A)9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 14. Which of the following has dominant allele in both gene locus? [] (A) Black (B)Albina (C) Agouti (D) White 15. In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus? []	C)Epistatic, hypostatic (D) Hypostatic, epistatic [2.Epistatis is the interaction between genes				
12.Epistatis is the interaction between genes [] (A)2 (B)4 (C) 8 (D) 16 13. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A)9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 14. Which of the following has dominant allele in both gene locus? [] (A) Black (B)Albina (C) Agouti (D) White 15. In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus? []	[2.Epistatis is the interaction between genes				
(A)2 (B)4 (C) 8 (D) 16 13. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A)9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 14. Which of the following has dominant allele in both gene locus? [] (A) Black (B)Albina (C) Agouti (D) White 15. In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus? []	(A)2 (B)4 (C) 8 (D) 16 (3) What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A)9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 (4) Which of the following has dominant allele in both gene locus? [] (A) Black (B)Albina (C) Agouti (D) White (5) In case of dominant epistasis which of the following will have the same expression, when 'A' is the epistatic locus? [] (A) AaBa and aaBb (B) AAbb and AABb	• • •	. ,	Г	1
13. What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [] (A)9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 14. Which of the following has dominant allele in both gene locus? [] (A) Black (B)Albina (C) Agouti (D) White 15. In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus? []	[3] What is the dihybrid phenotypic ration for recessive epistasis in an F2 generation? [2] [4] (A)9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 [4] (A) Which of the following has dominant allele in both gene locus? [2] [4] (A) Black (B) Albina (C) Agouti (D) White (D) White (E) (B) (B) (B) (B) (B) (B) (B) (B) (B) (B	=	_	L	1
(A)9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 14. Which of the following has dominant allele in both gene locus? [] (A) Black (B)Albina (C) Agouti (D) White 15. In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus? []	A)9:3:3:1 (B) 9:6:1 (C) 9:3:4:1 (D) 9:3:4 [4. Which of the following has dominant allele in both gene locus? [] [5. A) Black (B) Albina [6. C) Agouti (D) White [7. In case of dominant epistasis which of the following will have the same expression, when 'A' is the epistatic locus? [] [6. A) AaBa and aaBb (B) AAbb and AABb			Г	1
[] [44. Which of the following has dominant allele in both gene locus? [] [54. Which of the following has dominant allele in both gene locus? [] [55. Agouti	[4. Which of the following has dominant allele in both gene locus? [7. A) Black (B) Albina (C) Agouti (D) White [7. In case of dominant epistasis which of the following will have the same expression, when 'A' is the epistatic locus? [7. A) AaBa and aaBb (B) AAbb and AABb	, , ,		L	J
(A) Black (B)Albina (C) Agouti (D) White 15 .In case of dominant epistasis which of the following will have the same expression, when 'A' is it the epistatic locus?	(A) Black (B) Albina (C) Agouti (D) White (S) In case of dominant epistasis which of the following will have the same expression, when 'A' is the epistatic locus? (B) Albina (D) White (E) Albina (E) Albina (D) White (E) Albina	` '		Г	1
(C) Agouti (D) White 15 .In case of dominant epistasis which of the following will have the same expression, when 'A' is it the epistatic locus?	(C) Agouti (D) White 15 .In case of dominant epistasis which of the following will have the same expression, when 'A' is the epistatic locus? (B) AAbb and AABb (B) AAbb and AABb	_		L	J
15 .In case of dominant epistasis which of the following will have the same expression, when 'A' is in the epistatic locus?	15 .In case of dominant epistasis which of the following will have the same expression, when 'A' is the epistatic locus? [] A) AaBa and aaBb (B) AAbb and AABb				
the epistatic locus?	he epistatic locus? (A) AaBa and aaBb (B) AAbb and AABb	· · · · •		,,,1 ₋ .	n ! A ! : ~ :
•	A) AaBa and aaBb (B) AAbb and AABb	•	mich of the following will have the same expression,	wne	-
A) Aaba and aabb (B) AAbb and AAbb		-	(D) A A11	L	J
	Biology for engineers	A) AaBa and aaBb	(B) AAbb and AABb		

(C) aaBb and AABb	(D) aaBb and aaBB		
16. Which of the following is not the	e case of epistasis?	[]
(A) furcolour in mouse	(B) Fruit colour in summer squash		
(C) Fruit shape in summer squash	(D) Coat colour in Labrador		
17 .In case of Summer squash, the 'V	W' locus shows dominant epistasis over the 'Y' locus	s. 'W' lo	ocus
-	vellow and YY gives green. If you cross yellow and		
squash you can't get yellow green w		[1
(A) Yellow	(B) Green	_	-
(C) White	(D) you can't get all		
18 .Mendel used for his experim		[1
(A) Pisumsativam or Garden pea	(B) Paisum album	L	-
(C) Oryza sativa	(D) Oryzaorientalis		
19 .Which of the following relation	•	[1
_	(B) Height and seed colour	L	-
	n grain (D) height and seed coat colour		
	od, yellow seed, purple flower, terminal flower.	[1
(A) Green pod	(B) Yellow seed		,
(C) Purple flower	(D) Terminal flower		
21 .Which of Mendel's loss will be		[1
(A) Panspermia	(B) Dominance		-
(C)Segregation	(D) Independent assortment		
	ple alleles, one organism can have alleles.	[]
(A) One (B) Two	(C) Three (D) Four		-
	f short pea plant height will be expressed only when		?
	(B) One parent is tall and other short	[]
(C) The seeds are generated by selli	ng (D) Both parents are short		
24.'tt" mates with Tt.what will be th	e characteristic of offspring?	[]
(A)75% Recessive		L	
	(B)50% Recessive	L	
(C)25% Recessive	(B)50% Recessive (D)All dominant	L	
` '		[]
(C)25% Recessive			1
(C)25% Recessive 25.Mandal did not give?	(D)All dominant]
(C)25% Recessive25.Mandal did not give?(A) Concept of gene	(D)All dominant(B) Concept of inheritance(D) concept of chromosomes]
(C)25% Recessive25.Mandal did not give?(A) Concept of gene(C) concept of dominance	(D)All dominant(B) Concept of inheritance(D) concept of chromosomes	[]
(C)25% Recessive25.Mandal did not give?(A) Concept of gene(C) concept of dominance26. Who is known as the father of gene	(D)All dominant (B) Concept of inheritance (D) concept of chromosomes enetics?	[]
(C)25% Recessive25.Mandal did not give?(A) Concept of gene(C) concept of dominance26. Who is known as the father of gene(A)Erich Tschemark	(D)All dominant (B) Concept of inheritance (D) concept of chromosomes enetics? (B) Carl correns	[]
 (C)25% Recessive 25.Mandal did not give? (A) Concept of gene (C) concept of dominance 26. Who is known as the father of gene (A)Erich Tschemark (C) Gregor Johann mendal 	(D)All dominant (B) Concept of inheritance (D) concept of chromosomes enetics? (B) Carl correns	[]
 (C)25% Recessive 25.Mandal did not give? (A) Concept of gene (C) concept of dominance 26. Who is known as the father of gene (A)Erich Tschemark (C) Gregor Johann mendal 27. What is an allele? 	(D)All dominant (B) Concept of inheritance (D) concept of chromosomes enetics? (B) Carl correns (D) Hugo series	[]
 (C)25% Recessive 25.Mandal did not give? (A) Concept of gene (C) concept of dominance 26. Who is known as the father of gene (A)Erich Tschemark (C) Gregor Johann mendal 27. What is an allele? (A) Characteristics of an organism 	(D)All dominant (B) Concept of inheritance (D) concept of chromosomes enetics? (B) Carl correns (D) Hugo series (B) Alternate form of Genes (D) Pair of centroils	[]
 (C)25% Recessive 25.Mandal did not give? (A) Concept of gene (C) concept of dominance 26. Who is known as the father of gene (A)Erich Tschemark (C) Gregor Johann mendal 27. What is an allele? (A) Characteristics of an organism (C) Homologous chromosomes 	(D)All dominant (B) Concept of inheritance (D) concept of chromosomes enetics? (B) Carl correns (D) Hugo series (B) Alternate form of Genes (D) Pair of centroils	[]
 (C)25% Recessive 25.Mandal did not give? (A) Concept of gene (C) concept of dominance 26. Who is known as the father of gene (A)Erich Tschemark (C) Gregor Johann mendal 27. What is an allele? (A) Characteristics of an organism (C) Homologous chromosomes 28. Which of the following is not mental 	(D)All dominant (B) Concept of inheritance (D) concept of chromosomes enetics? (B) Carl correns (D) Hugo series (B) Alternate form of Genes (D) Pair of centroils endel's law of inheritance?	[]
(C)25% Recessive 25.Mandal did not give? (A) Concept of gene (C) concept of dominance 26. Who is known as the father of gene (A)Erich Tschemark (C) Gregor Johann mendal 27. What is an allele? (A) Characteristics of an organism (C) Homologous chromosomes 28. Which of the following is not mendal (A) Law of dominance (C) Law of heterozygous	(D)All dominant (B) Concept of inheritance (D) concept of chromosomes enetics? (B) Carl correns (D) Hugo series (B) Alternate form of Genes (D) Pair of centroils endel's law of inheritance? (B) Law of segregation	[]]
(C)25% Recessive 25.Mandal did not give? (A) Concept of gene (C) concept of dominance 26. Who is known as the father of gene (A)Erich Tschemark (C) Gregor Johann mendal 27. What is an allele? (A) Characteristics of an organism (C) Homologous chromosomes 28. Which of the following is not mendal (A) Law of dominance (C) Law of heterozygous	(D)All dominant (B) Concept of inheritance (D) concept of chromosomes enetics? (B) Carl correns (D) Hugo series (B) Alternate form of Genes (D) Pair of centroils endel's law of inheritance? (B) Law of segregation (D) Law of independent assortment	[[[]]
(C)25% Recessive 25.Mandal did not give? (A) Concept of gene (C) concept of dominance 26. Who is known as the father of gene (A)Erich Tschemark (C) Gregor Johann mendal 27. What is an allele? (A) Characteristics of an organism (C) Homologous chromosomes 28. Which of the following is not mendal (A) Law of dominance (C) Law of heterozygous 29.Out of the following, which is also	(D)All dominant (B) Concept of inheritance (D) concept of chromosomes enetics? (B) Carl correns (D) Hugo series (B) Alternate form of Genes (D) Pair of centroils endel's law of inheritance? (B) Law of segregation (D) Law of independent assortment so known as the law of purity of gametes?	[[[]]

		QUESTION BANK	201	9
20 271:1 64 641 : 1	D 11' 0	r		1
30. Which of the following is known	-	[J
(A) Sickle cell anaemia	(B) Haemophilia			
(C) Alzheimer's disorder	(D) Colour blindness.	г		1
31. Down's syndrome is characterise	•	[J
(A) 19 trisomy	(B) 21 trisomy			
(C) only one X chromosome	(D) two X and one Y chromosom		11 14	2
32.The syndrome in which individua		nromosome 'xxx' is o	called	<i>!</i>
(A) Down's syndrome	(B) Super female	L]
(C) Turner's syndrome	(D) Klinefelter's syndrome			
33. Aman has enlarged breasts, spare	-	'XXY' ,he suffers fr	om	
(A) Down's syndrome	(B) Klinefelter's syndrome	[]
(C) Turner's syndrome	(D) Edward's syndrome			
34. In a family, father is having a dis		ease inherited to only	ly dau	ghters
and not to the sons. What kind of dis	sease is this?	[]
(A)Sex linked dominant	(B) Sex linked recessive			
(C) Autosomal dominant	(D) Autosomal recessive			
35. A colour blind girl is rare becau	se she will born only when?	[]
(A) Her mother and maternal father	were colour blind			
(B) Her father and maternal grandfa	ther colour blind			
(C) Her mother is colour blind and f	ather has normal vision			
(D) Parents have normal vision but	grandparents were colour blind.			
36. In human beings 45 chromosom	es single x/xo abnormality causes	[]
(A) Down's syndrome	(B) klinefelter's syndrome			
(C) Turner's syndrome	(D) Edward's syndrome			
37. The process of transfer of heredit	ary character from one generation	to another is known	as	?
(A) Genes (B) Mutation	(C) variation (D)	genetics []
38.Name the chromosome found in	the cells which are responsible for	characters rather tha	n sex	
chromosomes?		[]
(A) Autosomes	(B) Genome			
(C) Mitochrical chromosome	(D) Y- chromosome			
39. A sudden change in the Gene wh	nich is heridable from one generation	on to another is know	wn	
as?	_	[]
(A) variation	(B) Cloning			
(C) Totipotency	(D) Mutation			
40. What is a complementation test?		[1
(A) A cross that can identify if a pho		hin the same gene or	r diffe	rent
genes.	31	C		
(B) A cross that can identify if a mu	tation at one Genie locus is recessi	ve		
(C) A cross that can identify if a mu				
(D) A test to see if two genes affect	_	-		
()				
	<u>UNIT-III</u>			
1. 1. The sub unit of polymerase has	a function of	[]
(A)Promoter binding (B) Elongation	(C) cation binding (D) termination	1		
Biology for engineers				

QUESTION BA	NK	2019
2. The bacterial system has RNA polymerases (A)1(B) 2(C)3 (D) 4	[]
3. Micromolecules described as large molecules built up from small repeating units called	ed as	which of
the following?	[]
(A) Biopolymers (B)Dimers (C) Monomers (D) Metamers		
4. Carbohydrates are polyhydroxy compounds of	[]
(A) Glucose (B)oligosaccharides(C)aldehyde and ketones (D)glyceraldehyde		
5. There are several levels of protein structure, which is the most complex protein?		
(A) primary (B) secondary (C) tertiary (D)quaternary	[]
6. Anylose is a soluble in which of the following solvent?	[]
(A) Alcohol (B)Water(C)partially soluble in alcohol(D) soluble in acidic solution		
7. Animals store glucose in the form of which are macromolecules?	[]
(A) Amylose (B)Glycogen(C)Glycerol (D)cellulose		
8.In the formation of macromolecules what type of bond would join two amino acid sub	ounit	as?
(A) Iconic Bond (B) Phosphodiester bond (C) Hydrogen bond (D)peptide Bond	[]
9.Carbohydrates are also known as	[]
(A)Hydrates of carbon (B)carbonates(C) Glycolipids (D)polysaccharides		
10. Which class of carbohydrates is considered as non sugar?	[]
(A)Monosaccharides(B) Disaccharides (C) polysaccharides (D)Oligosaccharides		
11. Whih of the following is also known as invert sugar?	[]
(A)Sucrose (B)Fructose (C)Dextose (D)Glucose		
12. Name the major storage form of carbohydrates in animals?		
(A) Cellulose (B) Chitin (C)Glycogen(D)Starch	[]
13.Essential fatty acids are?		
(A) Linoleic acid (B)Arachidonic acid(C) linolenic acid (D)All of these		
14.Examples of Mono and saturated fatty acids are?	[]
(A)oleic acid (B)Arachidonic acid (C)Palmitic acid (D)linolenic acid		
15.Simple lipids includes	[]
(A)Dils(B)waxes(C)fats(D)all of Adove		
16.Enzymes are also named as:	[]
(A) Biological catalyst (B)The catalyst of life (C) cytochromes (D) all of above		
17. Identify the purine base of nucleic acids in the following	[]
(A)Cytocine(B) Thymine (C)Uracil(D)Adinine		
18. What is the composition of nucleotide?	[]
(A) a sugar +a phosphate (B) a base + a sugar (C)a base + a phosphate		
(D) a base + a sugar + a phosphate		
19. The sugar molecule in a nucleotide is	[]
(A)pentose (B) Hexose (C) Tetrose(D) Triose		
20. Building blocks of nucleic acids are	[]
(A) Nucleotides (B) Nucleosides (C)Amino acids (D)Histones		
21. Elements which are good catalysts and have abilities to change their oxidation numbers.	er aı	e
(A)Transition elements (B)Nobel gases (C)Alkalis (D) all of them	[]
22. Changes in oxidation number of ions which are involved in catalyst is done in		
(A) Homogeneous catalyst (B) Heterogeneous catalyst	[]

Biology for engineers

	QUESTION BANK	2019
(C)Hypergeneous catalyst (D) Hypogenous catalyst		
23. Enzyme which helps in changing shape of the molecule is called]]
(A) ligases (B) Dehydrogenases (C) hydrolases (D) Isomerases	·	,
24.Transmethylases helps in transfer of]]
(A)Methyl group (B)Ethyle group (C) Amino group (D) Acetyl group		
25. ligases helps in the]]
(A)splitting of two molecules (B) joining of molecules		
(C) oxidation of molecules (D) both B and C		
26. Enzymes which are involved in transfer of electrons are]]
(A) oxidases(B) dehydrogenases (C) both a and b (D) hydrolases		
27. Model proposed by Emil Fisher is known as]]
(A)Arrow and shield model (B) Deduction model		
(C)Induction model (D) lock and key model		
28. Reactions are catalyzed by	[]
(A)Nitrogen (B) potassium (C)Enzyme (D)Magnesium		
29. The molecule which acts directly on an enzyme to lower its catalytic		
(A)Repressor (B)Inhibitor(C) Modulator (D)Regulator	[]
30. Which of the following is an example for Irreversible inhibitor?		
(A) Disulfiram (B) Oseltamivir (C)Protese inhibitors (D)DIPF	_	_
31. Where does inhibitor binds on enzyme in mixed inhibition?	[]
(A)At active site (B) Allosteric site		
(C)Does not bind on enzyme (D) Binds on substrate		7
32. Molecules which play the key role in the transfer of transfer of gene	etic []
information during Protein synthesis are		
(A)DNA (B) RNA (C) Nucleic acid (D) lipids	n dha naalia aaid da a	anotoin O
33. Which of the following RNA molecule convert information stored in	_	protein ?
(A) mRNA (B) snRNA (C) rRNA (D) tRNA 34.Name the secondary structure of RNA?	[]
(A) cloverleaf (B)L_shaped (C)duplex (D) priplettel	L	J
35. Which out of the following is a substrate species enzyme?	Г	1
(A) Hexokinase (B) Thiokinase (C) Lactose (D) Decarbolase	[J
36. What is the nature of the enzyme?	Г	1
(A) Vitamin (B) Lipid (C) Carbohydrate (D) protein	L	J
37. Name of the coenzyme of riboflavin(B2)?]	1
(A) NAD (B) FAD and FMN (C) Coenzyme (D) Thiamine pyrop		J
38. Which of these vitamin is associated with the engine biocytin?	[]
(A) Nicotinic acid (B)Thiamine (C)Biotin (D) Pyridoxine	Ĺ	J
39. Name the enzyme secreated by pancreas?]	1
(A)Pepsin (B) Chymotrypsin (C)Trypsin (D)Alcohol dehydroge		•
40. Which of these are rare amino acid in a protein?	[1
(A) Leueine and serine (B) Lysin and glutamic acid	-	-
(C) Tryptophane and Methionine (D) Leucine and lysine		

OUESTION BANK

<u>UNIT-IV</u>		
1. Which of the following is not a feature of feature of genetic code?	[]
(A)Triplet (B) Degenerate (C) Non-overlapping (D)Ambiguous		
2. The codon is a	[]
(A)singlet(B)Duplet (C)Triplet (D)Quadruplet		
3. Which of the following is not a termination codon?	[]
(A) UGA (B) AGA (C)AGG (D)UAC		
4.In case of Mitochondrial genetic code UGA is acodon.	[]
(A)Tryptophan (B) Arginine (C)Proline(D)stop		
5. Which of the following genetic code shows ambiguity	[]
(A)CGU (B)AUG(C)GAC (D)UGA		
6. What is the dinucleotide sequence of micro satelites?	[]
(A)CA (B)AT(C)CC (D)GC		
7.'DNA' molecules has	[]
(A)Negative charge (B)Positive charge (C)Neutral (D)none of the above		
8.'Purine' and 'pyrimidine' are the	[]
(A)Nitrogenous bases (B)Nitrogen (C)Nucleotides (D)Nucleoside		
9.A sequence of the three 'nucleotides' is called	[]
(A)Message (B)Code(C)Codon (D)Amino acid		
10.DNA stands for	[]
(A)Ribonuclic Acid(B)Deoxyribonucleic acid (C)Nucleic acid (D)Protein		
11.'AUG' is	[]
A)Stop codon (B) start codon (C) intermediate (D)valine		
12. Considering Deoxyribonucleic acid structure, backbone outside double helix is made	up of	
	[]
(A)Sugar and nitrogen (B)nitrogen and carbon (C)phosphate and sugar (D)phosphate and	l nitroge	en
13. Sequence of amino acids of DNA is controlled by sequence of	[]
(A)Dominant proteins (B)Nucleosomes (C)Nucleotides (D) chromatin		
14. What should be the complementary stand of 3' ATGGCTTGA5'?	[]
(A) 3'TACCGAACT5' (B) 5' TACCGAACT3' (C) 3'TAGGCAAGT5' (D)		
5'TAGGCAAG3'		
15. Which of the following involves remarkable capacity of short segment of DNA of mo	ve fron	n one
place to another?	[]
(A)DNA transposition (B) DNA replication (C) translation (D)transcription		
16. Which of the following is called are solvase?	[]
(A) RUV-C (B) RUV-A (C) RUV-B (D) RCV-A		
17. The sequence of the recombination sites recognised by site- specific recombinases are	e	
(A)Partially asymmetric (B) Partially symmetric (C)Symmetric (D)Palindromic	[]
18.'B' pleated sheets are the examples of protein is	[]
(A)Primary structure (B) secondary structure (C)Tertiary structure (D)Quaternary structure	re	
19. Which of the following is not a G_ protein coupled receptor?	[]
(A)Glycine receptor (B)Adrenergic receptor (C) Glutamate receptor (D)Muscarinic receptor	otor	
20. A hormone or ligand can be considered as	[]
(A)first messenger (B)second messenger(C)Third messenger (D) fourth messenger		
Biology for engineers		

QUESTIO	N BANK	2019
21. Which of the following serves as a neurotransmitter in adrenergic neurones?	[]
(A) Epinephrine (B)Serotonin(C) Dopamine (D) Histamine		
22. Process of folding depends upon the	[]
(A)Solvent (B)the concentration of salts (C)PH (D)all of the above	г	1
23.In agarose gel electrophoresis, DNA is moved towards the		J
(A)cathode (B)Anode (C) DNA doesn't move (D) moves slowly	г	1
24. The first x-ray diffraction patterns of DNA were taken in 1938 by (A) William Asbury (B) Rosalind Franklin (C)Franeis H. Crick (D)Linus pauling	L	J
25.In a DNA double helix the bases are held together by hydrogen bonds. These hy	vdrogen h	onds
are	, arogen o]
(A)Covalent bonds (B) Non-covalent bonds (C)Ionic bonds (D) Vander waals for	ces	J
26. How many kinds of mutation are found in DNA. which includes mutation of or		
(A) 1 (B) 2 (C) 3 (D) 4	[]
27.By which process mis- incorporated base can change into a permanent mutation	ı? []
(A)Replication(B) Transcription (C) Translation (D) Transposition		
28. A condon contains how many nucleotides	[]
(A) 1 (B) 2 (C) 3 (D) 4		
29.The initiation condon is	[]
(A) AUG (B) UAA (C) UAG (D) UGA	-	_
30.How many t_RNAs are required to translated all 61 condons?	[]
(A) 31 (B) 32 (C) 30 (D) 29	-	,
31. Wobble hypothesis was first proposed by	L	J
(A)Nitren berg (B) Watson and Crick (C) Watson (D)Crick 32.The building blocks of proteins arenaturally occurring amino acids, small	II molecul	as that
contain a free amino group and Afri carboxyl group	li ilioiccui	les mai
(A) Ten (B) Twenty (C) Nine (D) ninteen	L	J
33the smallest amino acid, has a hydrogen atom as 'R' group.	Γ	1
(A) valine(B) Proline (C) Glycine (D) Thercohine	L	,
34. Firoin is rich in]]
(A) Alanine and glycime(B) Alanine (C)Glycine (D)Pro.		
35. Which of the following does not possess a quaternary structure?	[]
(A) myo globin (B) Lactate Dehydrogenase (C)Immunoglobulin M (D) Creative p	hospho ki	nase
36. Which of the following is aboundadry found in collagen?]]
(A) Glycine (B) Serine (C) Alanine (D) Tryptophan	_	_
37. Which of the following enzyme is Secreated by the pancreas?	[]
(A)Ribonuclease (B) lysozyme(C) Cytochrome (D) Myoglobin	г	,
38. The repeating units of proteins are	[J
(A) Glucose units (B)Amino acids (C) fatty acids (D)peptides 39.The primary structure of protein represents	Г	1
(A)linear sequence of amino acids joined by peptide Bond	[J
(B)3- dimensional structure of protein		
(C)Lulical structure of protein (D)subunit structure of protein		
40. Haemoglobin has	ſ	1
(A)primary structure (B) secondary structure (C)tertiary structure (D)quaternary st	ructure	_
Biology for engineers		

<u>UNIT-V</u>

1. The total energy of a body is sum of	L]
(A) kinetic energy (B) potential energy sources (C) forces (D)both a and b		
2."Energy can neither be created nor be destroyed but it can be changed from one form	to anot	her" this
law is known as	[]
(A) kinetic energy (B) potential energy (C) conservation of energy		
(D) conservation principle		
3. The study of energy relationships and conversions in biological system is called as	[]
(A)biophysics(B)biotechnology (C)bioeuergetics(D) microbiology		
4.A chemical reaction that releases energy?	[]
(A)endergonic reactions (B)metabolic pathway (C) photosynthesis		
(D) exergonic reaction		
5. cellular respiration is an	[]
(A) endergonic reaction (B)exergonic reaction (C) Metabolic pathway		
(D) photosynthesis		
6.Reactions which cannot occur spontaneously are:	[]
(A) exothermic(B) endothermic (C)Isothermic (D) thermodynamics	_	_
7.Exothermic reactions have high	[1
(A) entropy (B) enthalpy (C)pH (D) Deactivation energy	L	-
8. Melting ice cube is an example of	[1
(A) endothermic reaction(B) exothermic reaction (C)chemical change	L	-
(D) physical change		
9.Biologist who discovered ATP is	[1
(A) Daniel Olive (B)Daniel koshland(C)Karl lOhmann (D)Emil Augus	L	,
10.Major source of energy to perform cellular functions such as exocytosis, endocytosis	s. move	ement
and transmission of nerve impulses is	[]
(A) ATP (B) BTP (C) PTA (D) ADT	L	,
11.Energy from ATP is not necessary for	[1
(A) osmosis(B) muscle Contractions (C) Protein synthesis(D) active transport	-	•
12. Which of the following enzues catalyzes the first step of glycolysis	Γ	1
(A) hexokinase(B) pyruvate kinase (C) glucokinase	-	,
(D) Phosphofructokinase-1		
13.Cleavage of fructose-1 ,6-biophosphate yields	[]
(A)Two aldoses (B) Two ketoses (C) An aldose and a ketoses	L	,
(D) onlyketose.		
14.Dihydroxy Acetone phosphate is rapidly and reversibly converted to	[1
(A)Glyceraldehyde 3-phosphate (B)1,3-bisphosphoglycerate	L	,
(C) Phosphoenolpyruvate (D) 1,3-bisphosphoglycerate		
15. The substrate used in the last step of glycolysis is	[1
(A) Glyceraldehyde 3-phosphate (B) pyruvate (C) Phosphoenolpyruvate (D)1,3-	L	J
Bisphosphoglycerate (2) pyravate (3) Finosphoenospyravate (2)1,5		
16.High concentration of glucose 6- phosphate is inhibitory to	[]
(A) hexokinase(B) pyruvate kinase (C) glucokinase	L	ı
11.5		
Biology for engineers		

QUESTION BANK	2019

(D) phosphofructokinase-1		
17.Glycolysis converts	[]
(A)glucose into pyruvate (B) glucose into phosphenol pyruvate		
(C)Fructose into pyruvate (D)Fructose into Phosphoenolpyruvate		
18.In what form does the product of glycolysis Enter the TCA cycle	[]
(A)acitylcoA(B) pyruvate (C)NADH (D) glucose		
19.Malate -asparatate shuttle operates in	[]
(A)lungs and liver (B) heart and liver (C) pancreas an liver (D)none of these		
20. Which of the following intermediates of TCA cycle cannot be utilized for gluconeogo	enesis?	
(A)Succinate (B)Malate(C)alpha-ketoglutarate (D) Acetylene	[]
21.In a Eukaryotic cell, most of the enzymes of the citric acid cycle are located in the		
(A) mitochondrial matrix (B)inner mitochondrial memberane	[]
(C)cytosol (D)inter membrane space		
22.Most of the ATP made during cellular respiration is generated by	[]
(A) Glycolysis(B) oxidative phosphorylation (C) photo phosphorylation		
(D) substrate -level phosphorylation		
23. The TCA cycle is involved in	[]
(A) generation of energy from pyruvate (B) synthesis of amino acids		
(C)synthesis of fatty acids (D) All of the above		
24. Which of the following is an anoxygenic photosynthesis organism	[]
(A) plants(B) photosynthetic protists(C) cyanobacteria (D) Green and Purple synthetic o	rganisı	n
25. Which of the following is not a liquid- soluble synthetic pigment?	[]
(A) phycobilins(B) carbonates (C) chlorophyll (D) Xantgophylls		
26. Name the photosynthetic pigment which is structurally similar to the bile pigment b	ilirubir	n?
(A) chlorophyll(B) carotene (C) Xantgophyll(D) phycobilins	[]
27. The xanthophyte walls are typically of	[]
(A) Chitin (B) Cellulose (C) Cellulose and pectin (D) Starch		
28. Which of the following are formed in	[]
(A)oil(B)glucose (C) starch (D)silica		
29. Type strain is used for referring to?	[]
(A)Species (B)geners (C)family (D) Division		
30.what are the ribosomes composed of?	[]
(A) proteins (B)DNA (C) RNA (D) proteins and RNA		
31. What do you mean by sterilization?	[]
(A) purification of products (B)recovery of products		
(C) elimination of contamination (D) formulation of media		
32. The highest feasible temperature for batch sterilization is	[1
(A)124°C(B) 121°C (C)122 °C(D)121°C	-	-
33. The Gram- Negative organisms is	[1
(A) actinomyces (B) bacillus (C)clostridium (D) none of these	-	-
34. Catalase production is negative in which of the following?	[1
(A) Streptococcus (B) Salmonella (C) Proteus (D) Staphylococus		-
35. The organisms that can be acid of stained is	[1
(A)Nocardia (B) Tubercle bacille (C)Lepra bacilli(D) all of these	-	_
Biology for engineers		

(QUESTION BANK	2019
36.Type strain is used for referring to?	[]
(A) species (B) genus (C)family (D) division		•
37. What are the ribosomes composed of?]]
(A) proteins(B) DNA (C)RNA (D) proteins and RNA		
38. Which condition is correct according to the growth of cells in beginni	ng? []
(A) cells are in small amount (B) cells are in medium amount		
(C)cells are in large amount (D) cells are in negligible amount		
39.The symbol of Helmholtz tree energy is]]
(A)A. (B) H (C) B (D) E		
40. what is the symbol for Gibbs free energy?]]
(A) A(B) H(C) G(D) E		