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WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question # 29 of 30 (Start time: 02:30:19 AM, 28 December 2020)

Total Marks: 1

Arabidopsis Thaliana genomes has _____ genes and encodes _____ proteins.

Select the correct option

☒	27000, 35000	
☐	2700, 3500	
☐	35000, 35000	
☐	27000, 27000	

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Question # 2 of 30 (Start time: 02:34:16 AM, 28 December 2020)

Total Marks: 1

Bacterial genes mostly do not have _____

Select the correct option

☒	Introns	
☐	Exons	
☐	DNA	
☐	Operons	

[Click to Save Answer & Move to Next Question](#)

Question # 1 of 30 (Start time: 02:33:08 AM, 28 December 2020)

Total Marks: 1

Meta genomics examine the phylogenetic diversity using _____

Select the correct option

☐	16s ssRNA	
☐	16s sRNA	
☒	16s rRNA	
☐	16s RNA	

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Question # 4 of 30 (Start time: 02:36:27 AM, 28 December 2020)

Total Marks: 1

Most plants and animals have genomes greater than _____.

Select the correct option

☒	100 Mb	
☐	500 Mb	
☐	1000 Mb	
☐	50 Mb	

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Question # 3 of 30 (Start time: 02:34:48 AM, 28 December 2020)

Total Marks: 1

Human Genome Project was completed in _____.

Select the correct option

☐	1999	
☐	1996	
☐	2000	
☒	2003	

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Question # 9 of 30 (Start time: 02:40:40 AM, 28 December 2020)

Total Marks: 1

Genomics helps to understand _____ of genes.

Select the correct option

☒	Functions	
☐	Shape	
☐	Name	
☐	Design	

Click to Save Answer & Move to Next Question

Question # 12 of 30 (Start time: 02:42:23 AM, 28 December 2020)

Total Marks: 1

Several genes are evolving faster in humans than _____

Select the correct option

☐	Mouse	/
☒	Chimpanzees	/
☐	Cats	/
☐	Zebra	/

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Question # 11 of 30 (Start time: 02:41:43 AM, 28 December 2020)

Total Marks: 1

Many genes are arranged in groups along a chromosome are called _____.

Select the correct option

☐	Gene families	
☒	Gene clusters	
☐	Globin genes	
☐	Single individuals Genes	

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Question # 14 of 30 (Start time: 02:43:22 AM, 28 December 2020)

Total Marks: 1

Methylation arrays determine methylated DNA. Determining which regions of DNA are methylated ultimately help in the study of _____.

Select the correct option

☐	neuronal disorders	
☐	intron function	
☐	protein function	
☒	epigenetics	

[Click to Save Answer & Move to Next Question](#)

Question # 13 of 30 (Start time: 02:42:54 AM, 28 December 2020)

Total Marks: 1

_____ vectors with a capacity of 300 kb and the ability to replicate in E. coli

Select the correct option

☐	Cosmid
☐	YAk
☒	BAC
☐	Phasmid

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Question # 16 of 30 (Start time: 02:44:24 AM, 28 December 2020)

Total Marks: 1

Nuclear genome of yeast consist of _____ number of chromosomes

Select the correct option

☐	12	
☐	14	
☒	16	
☐	21	

Click to Save Answer & Move to Next Question

Question # 14 of 30 (Start time: 10:50:13 PM, 28 December 2020)

Total Marks: 1

Privacy and confidentiality of genetic information is a/an _____.

Select the correct option

☐	Historical and Legal	
☐	Biological and Legal	
☐	Social and Legal	
☐	Ethical and Legal	

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Question # 3 of 30 (Start time: 02:56:40 AM, 28 December 2020)

Total Marks: 1

Ensembl is a joint project between these 3 organizations.

Select the correct option

☒	EMBL, EBI, WTSI	/
☐	EMBL, EBI, FBI	/
☐	EMBL, EBI, NCBI	/
☐	EMBL, EBI, CIA	/

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Question # 6 of 30 (Start time: 02:59:06 AM, 28 December 2020)

Total Marks: 1

miRNA originates from _____ that forms a hairpin secondary structure.

Select the correct option

☒	ssRNA	A GOOD EDUCATION IS A FOUNDATION FOR A BETTER FUTURE CORRECT ANSWER SOLVED BY TEAM HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP & CALL: 03087122922 	
☐	dsRNA		
☐	ssDNA		
☐	dsDNA		

[Click to Save Answer & Move to Next Question](#)

Question # 5 of 30 (Start time: 02:57:45 AM, 26 December 2020)

Total Marks: 1

These are types of Microarrays except _____.

Select the correct option

☐	DNA microarrays	
☒	Southern blotting	
☐	Comparative Genomic Hybridization array	
☐	Exon arrays	

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Question # 8 of 30 (Start time: 02:59:54 AM, 28 December 2020)

Total Marks:

Drosha and Dicer are ____ enzymes.

Select the correct option

☒	RNase III	
☐	RNase II	
☐	DNase III	
☐	DNase II	

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Question # 7 of 30 (Start time: 02:59:41 AM, 28 December 2020)

Total Marks: 1

The second step in Human Genome Project was _____.

Select the correct option

☐	Map Construction	
☒	Clone selection	
☐	Sub-clone library construction	
☐	Random shotgun phase	

Click to Save Answer & Move to Next Question

Question # 10 of 30 (Start time: 03:00:34 AM, 28 December 2020)

Total Marks: 1

The biggest advantage of microarrays is that they _____

Select the correct option

☐	Expensive	
☐	Cross-hybridization of sequences with high identity	
☒	Provides data for thousands of genes	
☐	Chip to chip variation	

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Question # 13 of 30 (Start time: 03:02:20 AM, 28 December 2020)

Total Marks: 1

E. Coli is a model organism for _____.

Select the correct option

☐	Genome sequencing	
☒	Genome informatics	
☐	Gene identification	
☐	Gene clustering	

Click to Save Answer & Move to Next Question

Question # 16 of 30 (Start time: 03:04:15 AM, 28 December 2020)

Total Marks: 1

In Cartridge-Based Microarray Chips _____ strategy is used.

Select the correct option

☒	One sample = one chip	A GOOD EDUCATION IS A FOUNDATION FOR A BETTER FUTURE. CORRECT ANSWER SOLVED BY TEAM HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP & CALL:03087122922 محمد ہادی
☐	Many samples = one chip	
☐	Many samples = many chips	
☐	One sample = many chips	

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Question # 15 of 30 (Start time: 03:03:34 AM, 28 December 2020)

Total Marks: 1

_____ types of RNA polymerases are present in prokaryotes and _____ types of RNA polymerases in eukaryotes.

Select the correct option

☒	1, 3	A GOOD EDUCATION IS A FOUNDATION FOR A BETTER FUTURE. CORRECT ANSWER SOLVED BY TEAM HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP & CALL: 03087122922 	
☐	1, 4		
☐	3, 1		
☐	5, 1		

Click to Save Answer & Move to Next Question

Question # 18 of 30 (Start time: 03:04:44 AM, 28 December 2020)

Total Marks: 1

Each tRNA possesses a/an _____.

Select the correct option

☒	Anticodon	
☐	Codon	
☐	Code	
☐	Ribosome	

Click to Save Answer & Move to Next Question

Question # 17 of 30 (Start time: 03:04:31 AM, 28 December 2020)

Total Marks: 1

In radiation mapping, exposure to _____ breaks the DNA in human cells.

Select the correct option

☒	X rays	✓
☐	Ultraviolet rays	✓
☐	Ultrasonic waves	✓
☐	Infrared rays	

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Question # 20 of 30 (Start time: 03:06:38 AM, 28 December 2020)

Total Marks: 1

the size of mitochondrial genome in animal is _____

Select the correct option

☐	10-16 Kb	
☐	11-16 Kb	
☐	13-16 Kb	
☒	15-16 Kb	

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Question # 19 of 30 (Start time: 03:05:53 AM, 28 December 2020)

Total Marks: 1

Approximately 40% of the human genome is same to the _____ genome.

Select the correct option

☒	mouse	
☐	drasophila	
☐	dog	
☐	cow	

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Question # 26 of 30 (Start time: 03:11:18 AM, 28 December 2020)

Total Marks: 1

DNA microarray has many applications. All of the following are applications of the technique EXCEPT:

Select the correct option

☐	Assessment of gene expression levels	0
☒	Analysis of protein function	0
☐	Evaluation of micro RNA levels	0
☐	Discovery of new genes	0

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Question # 25 of 30 (Start time: 03:10:22 AM, 28 December 2020)

Total Marks: 1

In Metagenomics we study the _____ pathways.

Select the correct option

☒	Metabolic	
☐	Anabolic	
☐	Structural	
☐	DNA	

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Click to Save Answer & Move to Next Question

Question # 28 of 30 (Start time: 03:14:05 AM, 28 December 2020)

Total Marks: 1

According to endosymbiont hypothesis mitochondria and chloroplast are derived from endosymbiotic _____.

Select the correct option

☒	Bacteria	
☐	Viruses	
☐	Animals	
☐	Plants	

[Click to Save Answer & Move to Next Question](#)

Question # 27 of 30 (Start time: 03:12:20 AM, 28 December 2020)

Total Marks: 1

Which of the following statements about Microarray formats is INCORRECT?

Select the correct option

☐	Cartridge-based chips are generally used with expression and DNA arrays	
☒	The spotted DNA arrays make use of mRNA and antigens	
☐	Cartridge-based expression arrays involve fluorescently tagged biotinylated cRNA	
☐	Spotted DNA arrays involve the use of two dyes, Cy5 and Cy3 on the same slide	

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Question # 30 of 30 (Start time: 03:15:30 AM, 28 December 2020)

Total Marks: 1

There are 2 types of DNA Chips/Microarrays of which one is _____.

Select the correct option

☒	cDNA based microarray	A GOOD EDUCATION IS A FOUNDATION FOR A BETTER FUTURE. CORRECT ANSWER SOLVED BY TEAM HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP & CALL: 03087122922 	
☐	Discovery of drugs microarray		
☐	Diagnostics and genetic engineering microarray		
☐	Alternative splicing detection microarray		

[Click to Save Answer & Move to Next Question](#)

Question # 29 of 30 (Start time: 03:14:43 AM, 26 December 2020)

Total Marks: 1

In Fluorescence in situ hybridization less condensed chromosomes may be resolved in the _____ range.

Select the correct option

☒	5-700 kb	
☐	10-100 kb	
☐	500-1000 kb	
☐	More than 1000 kb	

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Question # 2 of 30 (Start time: 02:11:57 AM, 28 December 2020)

Total Marks: 1

In microarray scanner if the color is _____ it means both samples hybridized equally to the target DNA.

Select the correct option

☒	yellow	
☐	red	
☐	green	
☐	black	

[Click to Save Answer & Move to Next Question](#)

Question # 5 of 30 (Start time: 02:13:52 AM, 28 December 2020)

Total Marks: 1

Different types of DNA repeats act as _____ to detect genetic variation.

Select the correct option

☒	Markers	A GOOD EDUCATION IS A FOUNDATION FOR A BETTER FUTURE. CORRECT ANSWER SOLVED BY TEAM HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP & CALL: 03087122922 ایم ہادی	
☐	Mini Satellite		
☐	Transposable Elements		
☐	Micro Satellite		

Click to Save Answer & Move to Next Question

Question # 8 of 30 (Start time: 02:15:46 AM, 28 December 2020)

Total Marks: 1

In radiation mapping, exposure to _____ breaks the DNA in human cells.

Select the correct option

☒	X rays	/
☐	Ultraviolet rays	/
☐	Ultrasonic waves	/
☐	Infrared rays	/

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Question # 7 of 30 (Start time: 02:15:21 AM, 28 December 2020)

Total Marks: 1

_____ is based on the direct analysis of DNA.

Select the correct option

☒	Physical mapping	
☐	Electrical mapping	
☐	FISH	
☐	Hybridization mapping	

Click to Save Answer & Move to Next Question

Question # 10 of 30 (Start time: 02:17:12 AM, 28 December 2020)

Total Marks:

We can predict disease-susceptibility based on gene sequence _____.

Select the correct option



Variation



Distribution



Alignment



Duplication

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Question # 9 of 30 (Start time: 02:16:11 AM, 28 December 2020)

Total Marks: 1

Functional Genomics relies on all of these except _____.

Select the correct option

☐	Molecular Biology	
☐	Biochemistry	
☐	Genetics	
☒	Biotechnology	

Click to Save Answer & Move to Next Question

Question # 12 of 30 (Start time: 02:18:53 AM, 28 December 2020)

Total Marks: 1

Fluorescence in situ hybridization (FISH) is a type of mapping that uses fluorescent _____.

Select the correct option

☒	Probes	A GOOD EDUCATION IS A FOUNDATION FOR A BETTER FUTURE CORRECT ANSWER SOLVED BY TEAM HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP & CALL: 03087122922 ہادی	
☐	Primers		
☐	Enzymes		
☐	dNTPs		

[Click to Save Answer & Move to Next Question](#)

Question # 11 of 30 (Start time: 02:18:30 AM, 28 December 2020)

Total Marks: 1

Highly ____ genes have changed very little over the time.

Select the correct option

☒	Conserved	/
☐	Similar	/
☐	Variable	/
☐	Dissimilar	/

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Question # 18 of 30 (Start time: 02:23:18 AM, 28 December 2020)

Total Marks: 1

Human genome sequencing by the mapping approach used _____

Select the correct option

☒	BACs	/
☐	YAKs	/
☐	Plasmids	/
☐	Cosmids	/

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Question # 17 of 30 (Start time: 02:22:56 AM, 28 December 2020)

Total Marks: 1

Fungi have about _____ genes.

Select the correct option

☒	5000	
☐	1000	
☐	500	
☐	100	

Click to Save Answer & Move to Next Question

Question # 20 of 30 (Start time: 02:24:42 AM, 28 December 2020)

Total Marks: 1

All ssRNA viruses produce _____ molecules.

Select the correct option

☒	dsRNA	A GOOD EDUCATION IS A FOUNDATION FOR A BETTER FUTURE. CORRECT ANSWER SOLVED BY TEAM HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP & CALL: 03087122922 
☐	dsDNA	
☐	ssRNA	
☐	ssDNA	

[Click to Save Answer & Move to Next Question](#)

Question # 19 of 30 (Start time: 02:23:50 AM, 28 December 2020)

Total Marks: 1

Using the chromosomal map for BAC clones, the BAC insert sequences are put to yield the complete _____ sequence.

Select the correct option

☒	Chromosome
☐	DNA
☐	RNA
☐	Gene

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Question # 22 of 30 (Start time: 02:26:00 AM, 28 December 2020)

Total Marks: 1

Related genes may be organized as several clusters at different _____.

Select the correct option

☒	Locations	A GOOD EDUCATION IS A FOUNDATION FOR A BETTER FUTURE. CORRECT ANSWER SOLVED BY TEAM HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP & CALL: 03087122922 محمد ہادی	
☐	Genes		
☐	Cells		
☐	Arrangements		

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Question # 21 of 30 (Start time: 02:25:16 AM, 28 December 2020)

Total Marks: 1

Number of gene in fungi is about _____

Select the correct option

☒	5000	
☐	2000	
☐	3000	
☐	4500	

Click to Save Answer & Move to Next Question

Question # 24 of 30 (Start time: 02:26:53 AM, 28 December 2020)

Total Marks: 1

In microarray Gene expression profiling can be monitored for thousands of ____ simultaneously.

Select the correct option

☒	genes	A GOOD EDUCATION IS A FOUNDATION FOR A BETTER FUTURE. CORRECT ANSWER SOLVED BY TEAM HADI EMAIL: hadirajputofficial@gmail.com WHATSAPP & CALL: 03087122922 محمد ہادی	
☐	RNA		
☐	genomes		
☐	Viruses		

Click to Save Answer & Move to Next Question

Question # 27 of 30 (Start time: 02:28:52 AM, 28 December 2020)

Total Marks: 1

Eukaryotes and prokaryotes genomes are _____.

Select the correct option

☐	Same	/
☐	Different slightly	/
☒	Significantly different	/
☐	Significantly same	/

Click to Save Answer & Move to Next Question

Question # 30 of 30 (Start time: 02:31:21 AM, 28 December 2020)

Total Marks: 1

Cartridge-Based Expression Microarrays involves _____

Select the correct option

- | | | |
|----------------------------------|---|--|
| ☐ | Fluorescently tagged biotinylated cRNA | |
| ☐ | High density arrays of DNA oligos within a plastic housing | |
| ☒ | One sample = One chip (Affymetrix, Agilent, Applied Biosystems etc) | |
| ☐ | used with expression and DNA arrays | |

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