Andhra Pradesh State Council of Higher Education

Notations:

Auto Save on Console?

Change Background Color:

Change Font Color:

Change Theme:

Help Button:

Show Reports:

1. Options shown in green color and with \checkmark icon are correct.

2.Options shown in red color and with * icon are incorrect.

Question Paper Name : Applied Life Sciences 3rd May 2024	
Duration:	120
Total Marks :	140
Display Marks:	No
Share Answer Key With Delivery Engine :	Yes
Calculator :	None
Magnifying Glass Required? :	No
Ruler Required?:	No
Eraser Required?:	No
Scratch Pad Required? :	No
Rough Sketch/Notepad Required?:	No
Protractor Required? :	No
Show Watermark on Console? :	Yes
Highlighter:	No

Yes

No

No

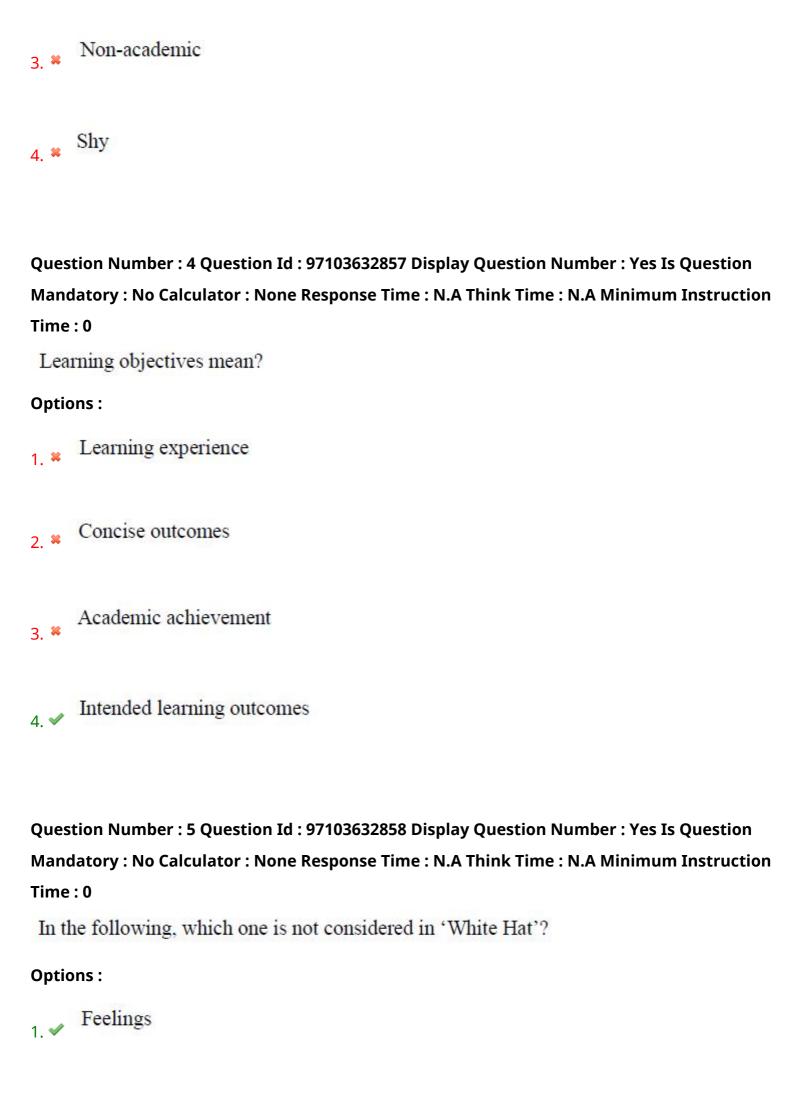
No

No

No

Show Progress Bar: No Is this Group for Examiner?: No **Examiner permission: Cant View Show Progress Bar?:** Nο **Research Methodology** Section Id: 971036467 **Section Number: Mandatory or Optional:** Mandatory **Number of Questions:** 66 **Section Marks:** 70 **Enable Mark as Answered Mark for Review and** Yes **Clear Response: Maximum Instruction Time:** 0 Is Section Default?: null Question Number: 1 Question Id: 97103632854 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 How does mass media influence society? **Options:** 1. * Promotes critical thinking 2. Shapes public opinion 3. * Limits access to information 4. * Encourages isolation

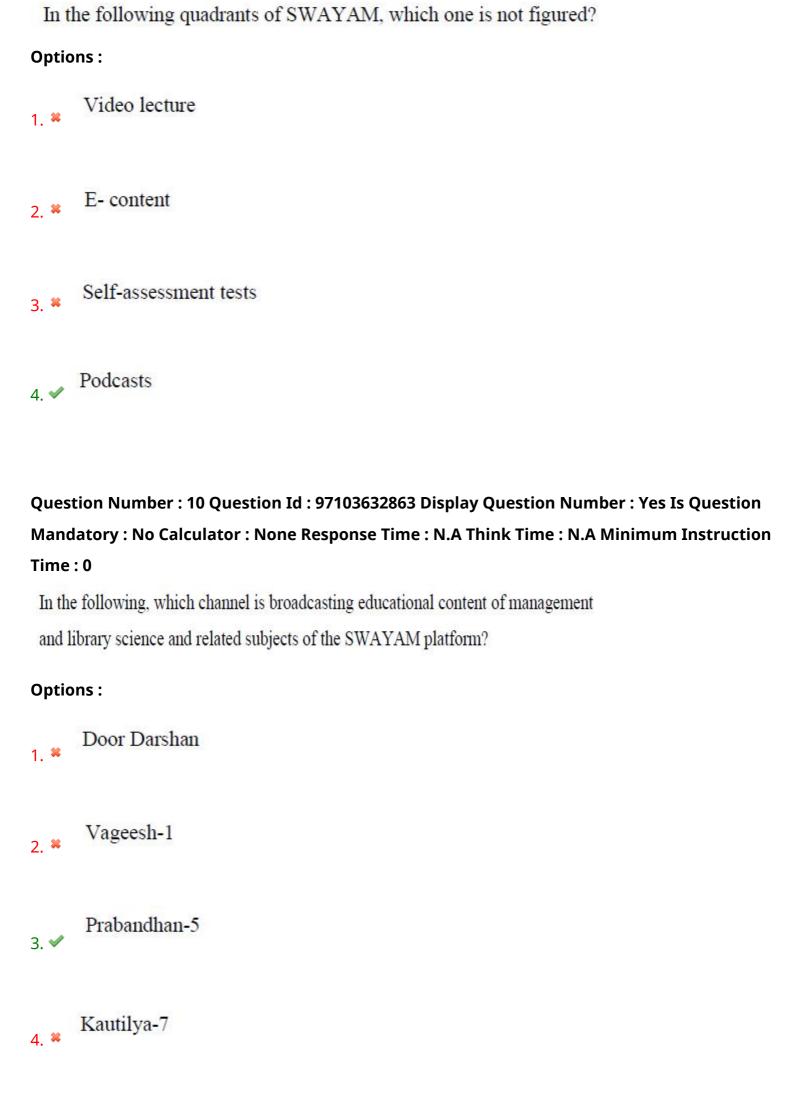
Question Number : 2 Question Id : 97103632855 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
What is an example of an online teaching platform?
Options:
1. * Tutorial class
2. * Traditional classroom
Laboratory session
4. Swayamprabha
Question Number : 3 Question Id : 97103632856 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
Some students who do not speak often in class and who typically develop
ideas and questions in their minds before speaking arestudents.
Options:
1. ✓ Reflective
2. * Active



2. * Data gathering
Facts 3. **
4. ** Information needs
Question Number : 6 Question Id : 97103632859 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
The modern pedagogical standards are not related to
Options:
1. * Learners- focussed process
Rigid teaching plan 2. ✓
3. * Individual Students need
4. * Learner diversity
Question Number : 7 Question Id : 97103632860 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
How many domains of learning are identified by Benjamin Bloom?
Options :

1. * Two
2. ✓ Three
Four 3. *
4. * Five
Question Number : 8 Question Id : 97103632861 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
As per Bloom's taxonomy, the objective of remembering refers to
As per bloom's taxonomy, the objective of femembering feters to
Options:
Psychomotor 1. **
2. ** Affective
3. ✓ Cognitive
4. * Social
Question Number: 9 Question Id: 97103632862 Display Question Number: Yes Is Question
${\bf Mandatory: No\ Calculator: None\ Response\ Time: N.A\ Think\ Time: N.A\ Minimum\ Instruction}$

Time: 0



Question Number: 11 Question Id: 97103632864 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

How many quadrants are there in MOOCs?

Options:

- Two
- Three
- 3. V Four
- 4. Five

Question Number: 12 Question Id: 97103632865 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

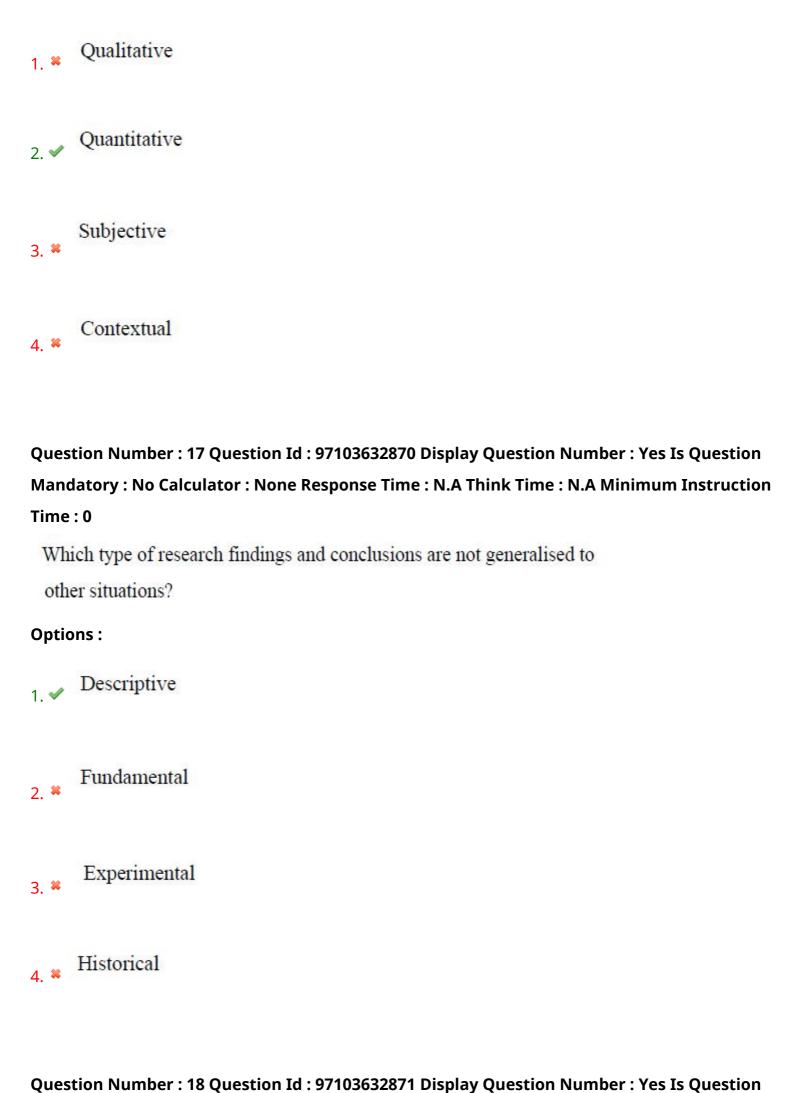
What is the best advantage of a Choice Based Credit System of education?

Options:

- Student-centric
- Flexibility for teachers

3. *	Content specific
4. * To	eacher-centric
	on Number : 13 Question Id : 97103632866 Display Question Number : Yes Is Question tory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
The cor	mputer-based testing learning domain covers behaviour.
Options	5:
1. * C	Conative
2. * E	Effective
3. 🗸 C	Cognitive
4. * Ps	sychomotor
	on Number : 14 Question Id : 97103632867 Display Question Number : Yes Is Question tory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time : 0	
The rese	earch activity pursuing based on observable facts is known as
Options	s:
1. × E	Ethno methodology

2. ** Constructionist
3. ✔ Positivism
4. * Manipulative
Question Number: 15 Question Id: 97103632868 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 What is the purpose of using a Venn diagram in logic?
Options :
1. * To confuse the audience
2. ✔ To visualize logical relationships
3. * To simplify complex arguments
4. * To present factual evidence
Question Number : 16 Question Id : 97103632869 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
Experimental research is based on methodology.
Options :



Time: 0
In the following approaches, which one is not quantitative research?
Options:
1. * Correlation
2. Ground theory
Experimental 3. *
4. ** Deductive
Question Number: 19 Question Id: 97103632872 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction
Question Number : 19 Question Id : 97103632872 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 The National Literacy Mission was started in the year
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 The National Literacy Mission was started in the year Options:
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 The National Literacy Mission was started in the year Options: 1. ** 1991

Question Number: 20 Question Id: 97103632873 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 What is the best remedy for the student's problems related to learning?		
Options:		
Suggestion for private tuition		
2. Suggestion for hard work		
Diagnostic teaching 3. ✓		
Suggestion to go to the library		
Is Section Default?: null		
Question Id : 97103632874 Sub Question Shuffling Allowed : Yes Group Comprehension		
Questions : No Question Pattern Type : NonMatrix Calculator : None Response Time : N.A		
Think Time : N.A Minimum Instruction Time : 0		
Question Numbers : (21 to 25)		

Read the Passage and answer the following questions:

If you wish to be a writer, you must learn to develop your own point of view. All good writers make us see things in a different light. You may be writing about the same thing as your classmates, but your presentation must reflect your personality and individuality. There are so many interesting subjects you can write about in different forms but here we will try to attempt writing short stories. There is a good market for the following types: humorous stories, adventurous stories, domestic stories, and mysterious stories and stories related to animals and strange experiences. Don't worry if your story turns out to be short-some of the stories are quite short. Be very careful about the climax or end of the story. It must be what the reader fears, desires, expect or best of all doesn't expect. So, get down to it. Think of a plot-make points on how the story will progress and pen it down.

Sub questions

Question Number : 21 Question Id : 97103632875 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0

The most important thing about being a writer is that

Options:

- You must have a pen and paper
- You must have a degree in writing
- You must have a painful heart
- You must learn to develop your own point of view

Question Number : 22 Question Id : 97103632876 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

THE	narrator advises the reader to write in order to
Optio	ons:
1. 🛰	Earn a livelihood
2. 🗸	Encourage him to become a writer
3. 💥	Make him famous among his people
4. 🛎	Show his intelligence to others
Question Number: 23 Question Id: 97103632877 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 A successful writer's presentation must reflect	
•	uccessful writer's presentation must reflect
Optio	uccessful writer's presentation must reflect ons:
Optio	
	ons :
1. 🗸	His personality and individuality

Time: 0

Question Number : 24 Question Id : 97103632878 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
The phrase 'pen it down' here means
Options :
1. * To get down
2. ✓ To write
To throw the pen
To throw it down 4. **
Question Number : 25 Question Id : 97103632879 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
According to the passage, what is essential for aspiring writers to learn?
Options :
Developing their own point of view 1.
Writing about the same topics as classmates
Avoiding short stories 3. **

Is Sed	Section Default?: null	
Man	estion Number : 26 Question Id : 97103632880 Display Indatory : No Calculator : None Response Time : N.A T	
	ne fundamental function of SPSS software is	
Optio	tions :	
1. *	To analyse quantitative data	
2. 🕷	Management reference tool	
3. 🗸	Statistical Package for analysing quantitative da	ta
4. *	Useful for literature review	
	estion Number : 27 Question Id : 97103632881 Display	
	indatory : No Calculator : None Response Time : N.A	nink time : N.A winimum instruction
	agiarism in research refers to	
	tions :	
1. *	Using previous data	
2. **	Quoting findings of others	
3. 🗸	Unscrupulously copying others works	

Incorporating earlier findings of the research.

Question Number: 28 Question Id: 97103632882 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

In the following, which one is considered a barrier of effective communication?

Options:

- Differences of cultural aspects
- 2. * Active listening
- Clarity of message
- Perfect information

Question Number : 29 Question Id : 97103632883 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

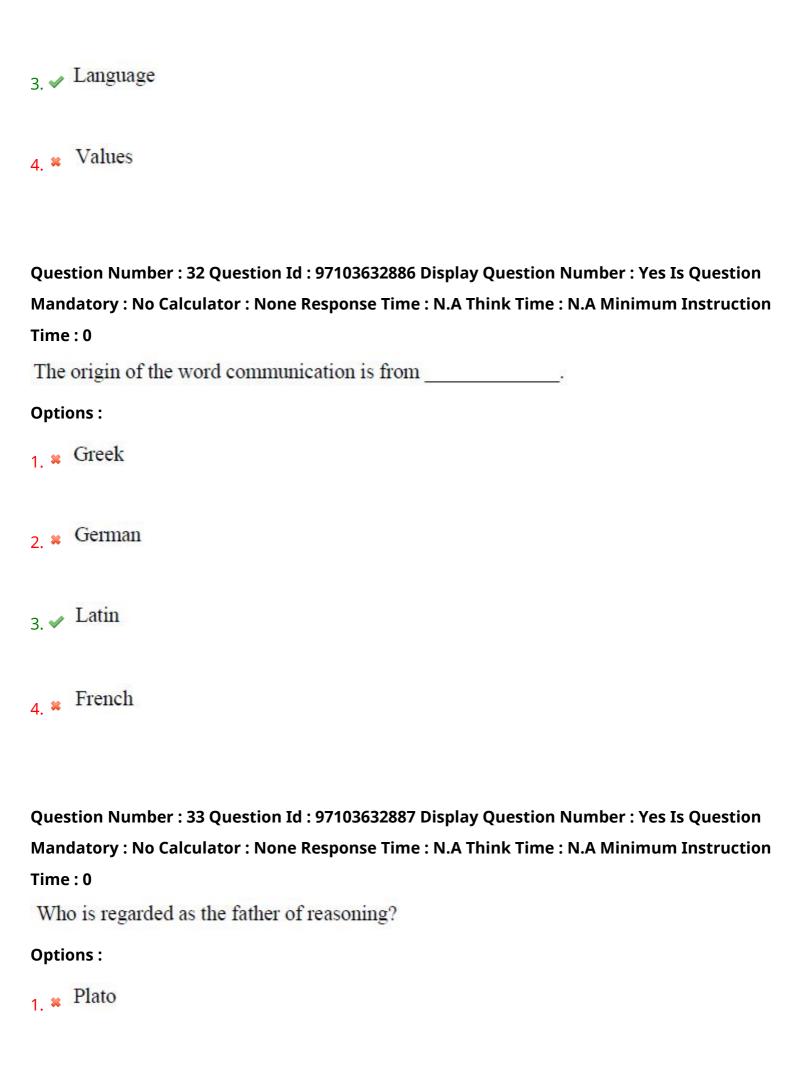
Time: 0

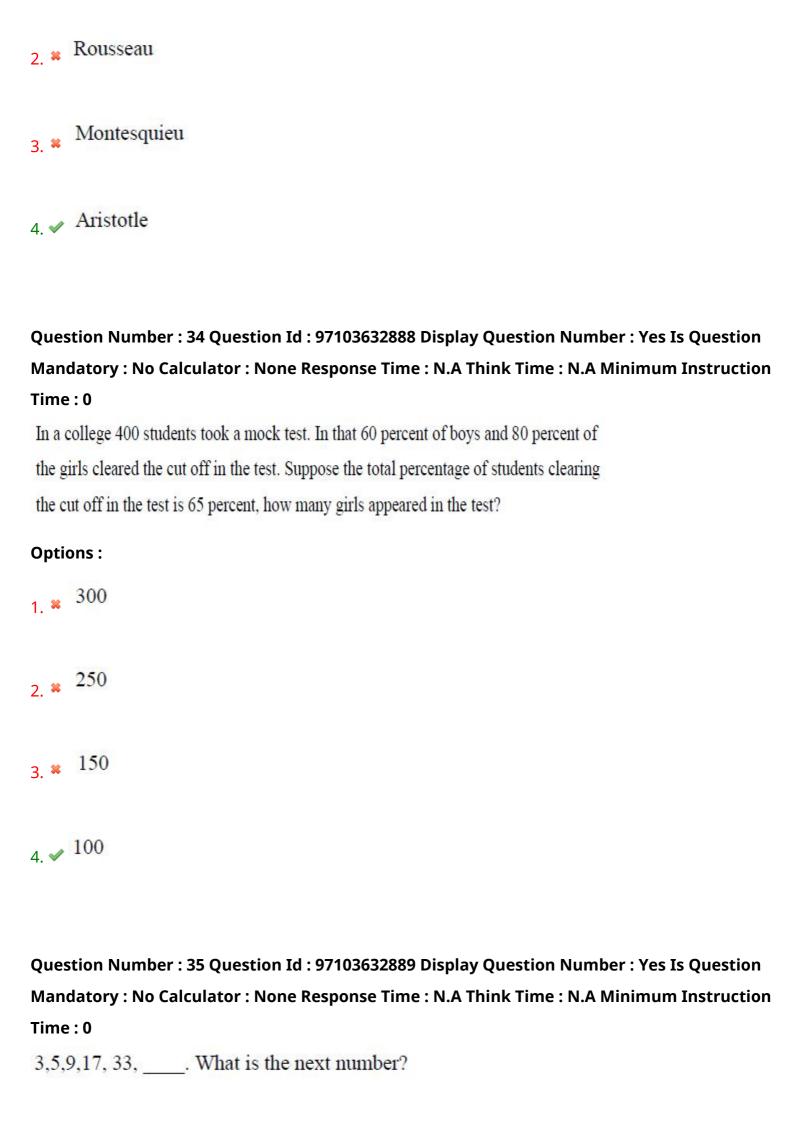
In the following communication, which one is considered as interpersonal?

Options:

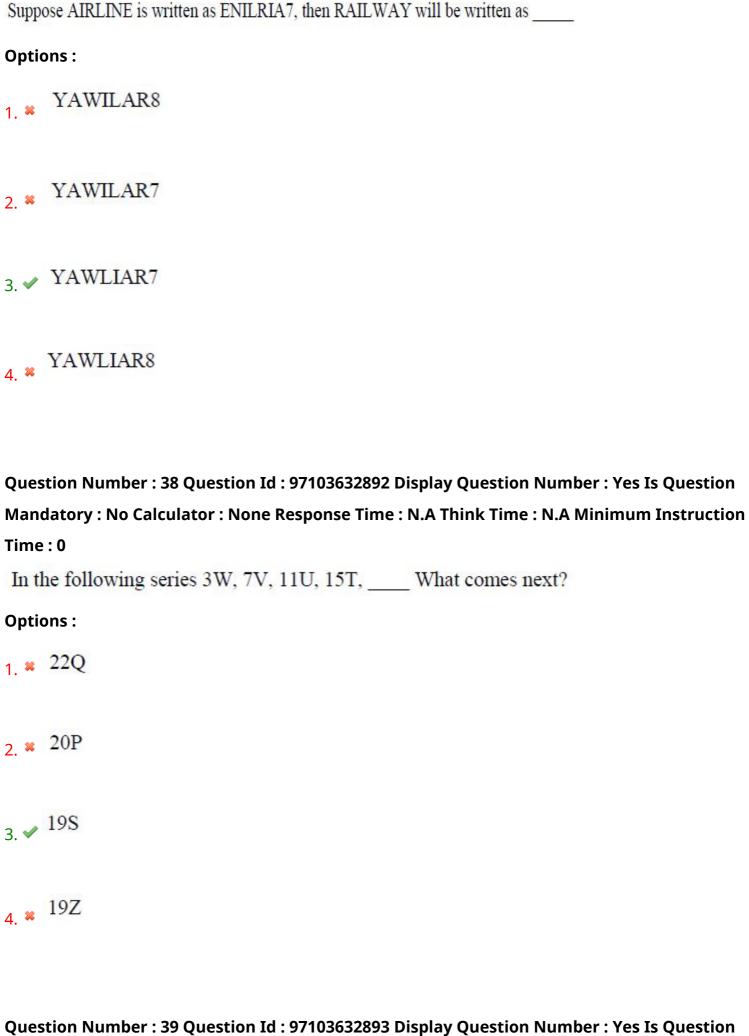
- 1. Metaphorical
- 2. * Philosophical

3. * It is not participating in friendly It is both focused and unfocussed. Question Number: 30 Question Id: 97103632884 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Which one of the following is not considered as verbal communication? **Options:** 1 * Instruction 2. Wordless messages 3. * Practicals 4. * Online classes Question Number: 31 Question Id: 97103632885 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 In the following, which one is not considered a subjective aspect of culture? **Options:** 1. Belief 2. * Attitude





Options:
1. * 45
2. * 35
3. 4 65
4. * 75
Question Number : 36 Question Id : 97103632890 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
How many types of reasoning are there?
Options:
1. * Four
2. ✓ Two
3. * Three
4. * Five
Question Number : 37 Question Id : 97103632891 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0



Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0 What is the sum of (71/105) and (71/420)? Options: 1. * 83/84 2. * 73/84 3. * 79/84 4. 71/84 Question Number: 40 Question Id: 97103632894 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 A car can finish a certain journey in 10 hrs at a speed of 48 kmph. To cover the same distance in 8 hours, the speed of the car must be increased by **Options:** 12 kmph 2. * 15 kmph 3. ***** 6 kmph

4. ***** 7.5 kmph

Question Number : 41 Question Id : 97103632895 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0

Suppose the price of the commodity is increased by 50 percent and by what fraction must its consumption be reduced to keep the same expenditure consumption?

Options:

1. * 1/2

2. 🗸 1/3

3. * 1/4

4. * 2/3

Question Number: 42 Question Id: 97103632896 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The selling price of a bicycle is Rs. 2,850 and the shopkeeper gains 14% profit. Suppose the profit is reduced to 8%, then the selling price will be Rs. _____.

Options:

2,600

2,700

- 3. * 2,800
- 4. * 3,000

Question Number: 43 Question Id: 97103632897 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Find out the simple interest, when principal is Rs. 3,000 at the rate of 5% per annum for 2 years?

Options:

- 1. 300
- 2. * 305
- 3. * 303
- 4. * 307

Question Number : 44 Question Id : 97103632898 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

A channel marked at a price Rs. 1,600 is available at a discount of 45%. What is the discount given?

Options:

1. * 740

- 2. * 800
- 3. **✓** 720
- 4. * 760

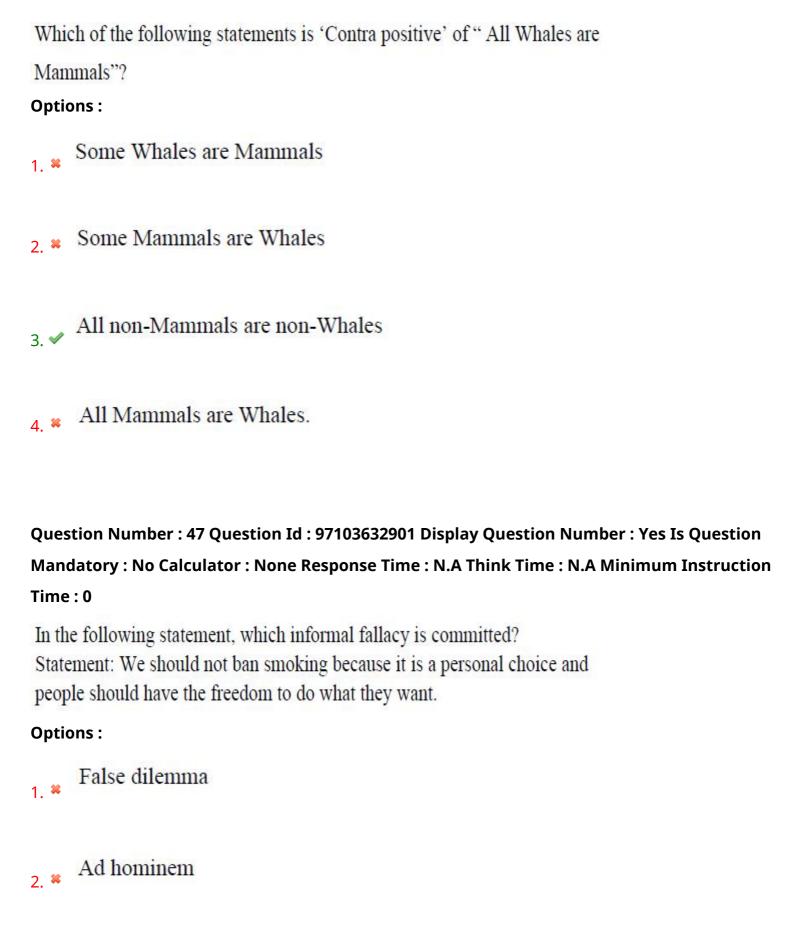
Question Number : 45 Question Id : 97103632899 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The average marks of 25 students is 18. The average marks of first 12 students is 14 and the average marks of last 12 students is 17. What is the 13th student result?

Options:

- 1. * 69
- 2. * 74
- 3. **✓** 78
- 4. * 75

Question Number: 46 Question Id: 97103632900 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0



Appeal to emotion

4. * Equivocation

Question Number: 48 Question Id: 97103632902 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 A word or phrase that is understood by every person in a particular culture is known as its
Options:
Denotation 1. **
2. * Connotation
3. V Sense
Reference 4. *
Question Number: 49 Question Id: 97103632903 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 In the following types of reasoning, in the conclusion the word 'likely' is used.
Options:
1. Inductive
2. * Deductive

3. * Analogical
4. * Syllogistic
Question Number: 50 Question Id: 97103632904 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Insect: Disease; War:?
Options:
1. * Arsenal
2. Defeat
Destruction 3.
4. * Army
Question Number : 51 Question Id : 97103632905 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
What is the meaning of 'pratyaksh'?
Options :
Inference

2. Perception
3. * Implied
Transcendental 4. **
Question Number: 52 Question Id: 97103632906 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 In Indian logic, what is the meaning of 'Anumana"?
Options:
1. * Determination
2. ** Credibility
Inference 3. Inference
4. * Implication
Question Number : 53 Question Id : 97103632907 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
In the HTML, M refers to
Options:

1. ** Machine
2. Markup
3. * Margin
4. * Micro
Question Number : 54 Question Id : 97103632908 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
The receiving emails appear in
Options :
1. * Spam
2. * Trash
3. ✓ Inbox
4. * Archive
Question Number : 55 Question Id : 97103632909 Display Question Number : Ves Is Question

Question Number : 55 Question Id : 97103632909 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Internet standard protocol is
Options :
1. * FTP
2. * WWW
3. ✓ TCP/IP
4. * UDP
Ouastian Number : 56 Ouastian Id : 07403633040 Display Ouastian Number : Vas Is Ouastian
Question Number : 56 Question Id : 97103632910 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instructior Time : 0
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instructior Time : 0
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 In the following video-conferencing platforms, which one is popular?
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 In the following video-conferencing platforms, which one is popular? Options:
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 In the following video-conferencing platforms, which one is popular? Options: Gmail
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 In the following video-conferencing platforms, which one is popular? Options: 1. * Gmail Spotify

Question Number : 57 Question Id : 97103632911 Display Question Number : Yes Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
The purpose of the intranet is
Options :
To facilitate online shopping
Z. ** To make video calls
3. * To provide unrestricted Access to information on the internet.
To allow communication within a specific company
Question Number : 58 Question Id : 97103632912 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
To improve Quality of research, the government has initiated a digital program
and it is called
Options :
1. National Knowledge Network
2. E-Shodh Sindu
3. * Swayam

E-PG pathshala

Question Number : 59 Question Id : 97103632913 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

In the following sections, which one deals with the punishment for cyber terrorism as per IT Act 2000.

Options:

1. **✓** 66 F

2. ***** 67 B

3. ***** 66 B

4. ***** 45 F

Question Number : 60 Question Id : 97103632914 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

'Joystick' refers to _____ device.

Options:

1. Output

2. * Storage

3. Input

Network . *

Question Number : 61 Question Id : 97103632915 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Which organisation is established in India to promote, review, encourage, assist and coordinate science research?

Options:

Time: 0

ICSSR

2. ✓ CSIR

3. ₩ NCAR

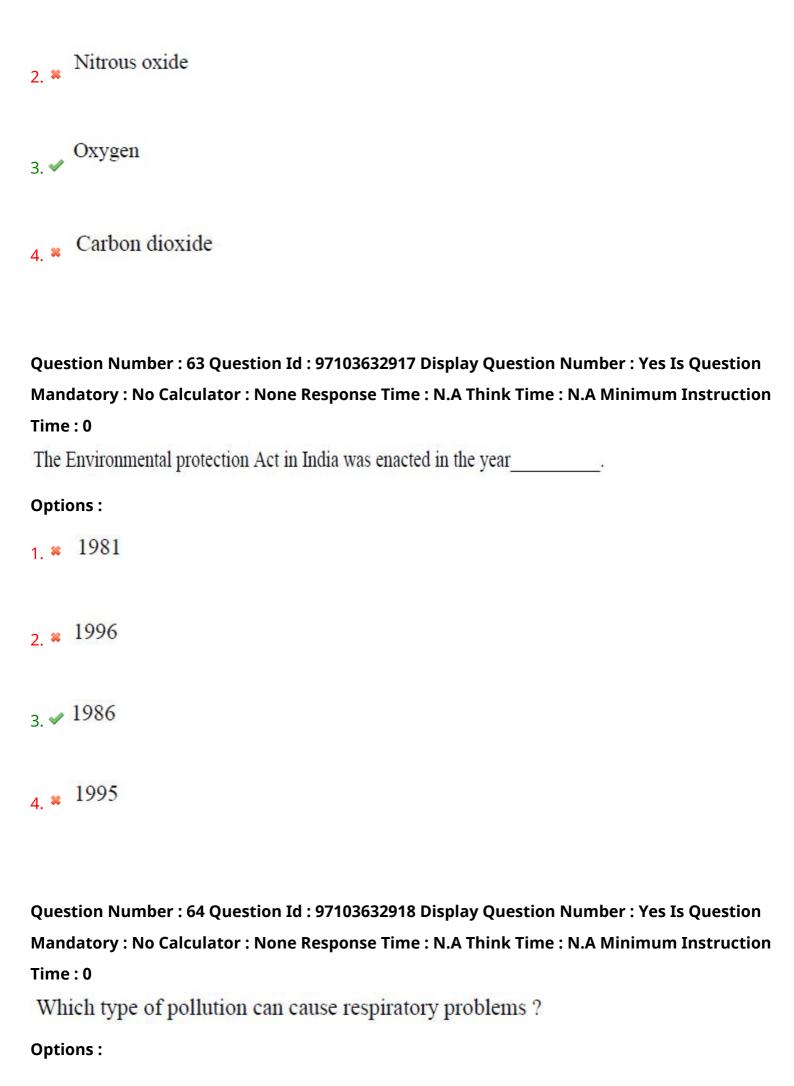
4. NCTE

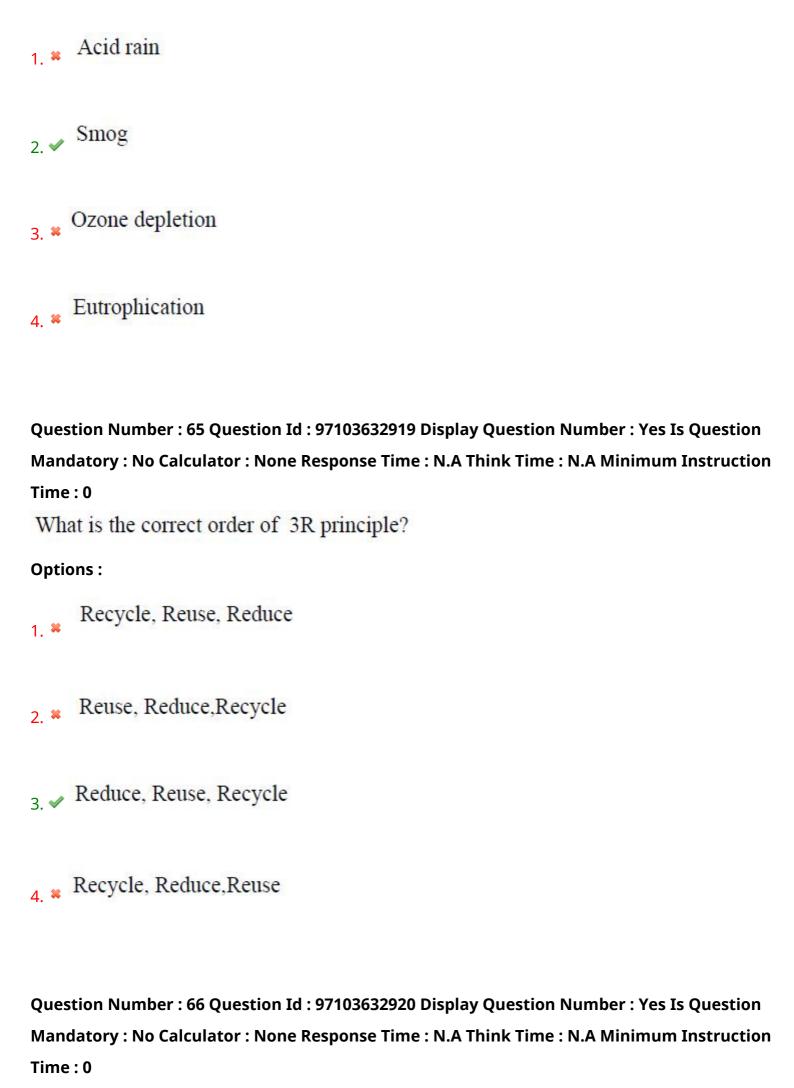
Question Number: 62 Question Id: 97103632916 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

In the following gases, which one is not considered as 'Green House Gas'

Options:

1. Methane





The Forest conservation Act was passed in the year
Options :
1. * 1986
2. * 1990
3. ✓ 1980
4. * 1988
Question Number: 67 Question Id: 97103632921 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 is an international treaty signed in 1987 to protect the ozone layer. Options: Rio Summit
Kyoto Protocol
Vienna convention
4. Montreal Protocol

Question Number : 68 Question Id : 97103632922 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0
Study the following Table and answer the questions from:

Department	Total number of employees	Percentage of females	Percentage of Males
IT	840	45	55
Accounts	220	35	65
Production	900	23	77
HR	360	65	35
Marketing	450	44	56
Customer Service	540	40	60

What is the total number of employees in all the departments together?

Options:

Question Number: 69 Question Id: 97103632923 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Study the following Table and answer the questions from:

Total Number of Employees in different departemales and males.	artments of an organisation and percentage	of
2		

Department	Total number of employees	Percentage of females	Percentage of Males
IT	840	45	55
Accounts	220	35	65
Production	900	23	77
HR	360	65	35
Marketing	450	44	56
Customer Service	540	40	60

What is the respective ratio of the number of females in production department to the number of females in the marketing department?

Options:

- 1. * 22:23
- 2. * 35:33
- 3. 23:22
- 4. * 33:35

Question Number : 70 Question Id : 97103632924 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0

Study the following Table and answer the questions from:

Total Number of Employees in different departments of an organisation and percentage of females and males.

Department	Total number of employees	Percentage of females	Percentage of Males
IT	840	45	55
Accounts	220	35	65
Production	900	23	77
HR	360	65	35
Marketing	450	44	56
Customer Service	540	40	60

What is the total number of males in the IT and customer service departments together

Options:

1. * 687

2. * 678

3. * 768

4. 🗸 786

Applied Life Sciences

2

Section Id: 971036468

Section Number :

Mandatory or Optional :	Mandatory
Number of Questions :	70
Section Marks :	70
Enable Mark as Answered Mark for Review and	Yes
Clear Response :	res
Maximum Instruction Time :	0
Is Section Default? :	null
Question Number : 71 Question Id : 97103632925 D	isplay Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time :	N.A Think Time : N.A Minimum Instruction
Time: 0	
Acids on reaction with metal oxides produce	
Options :	
1. * Hydrogen gas and salt	
2. ✓ Water and salt	
Z. Vitate tale suit	

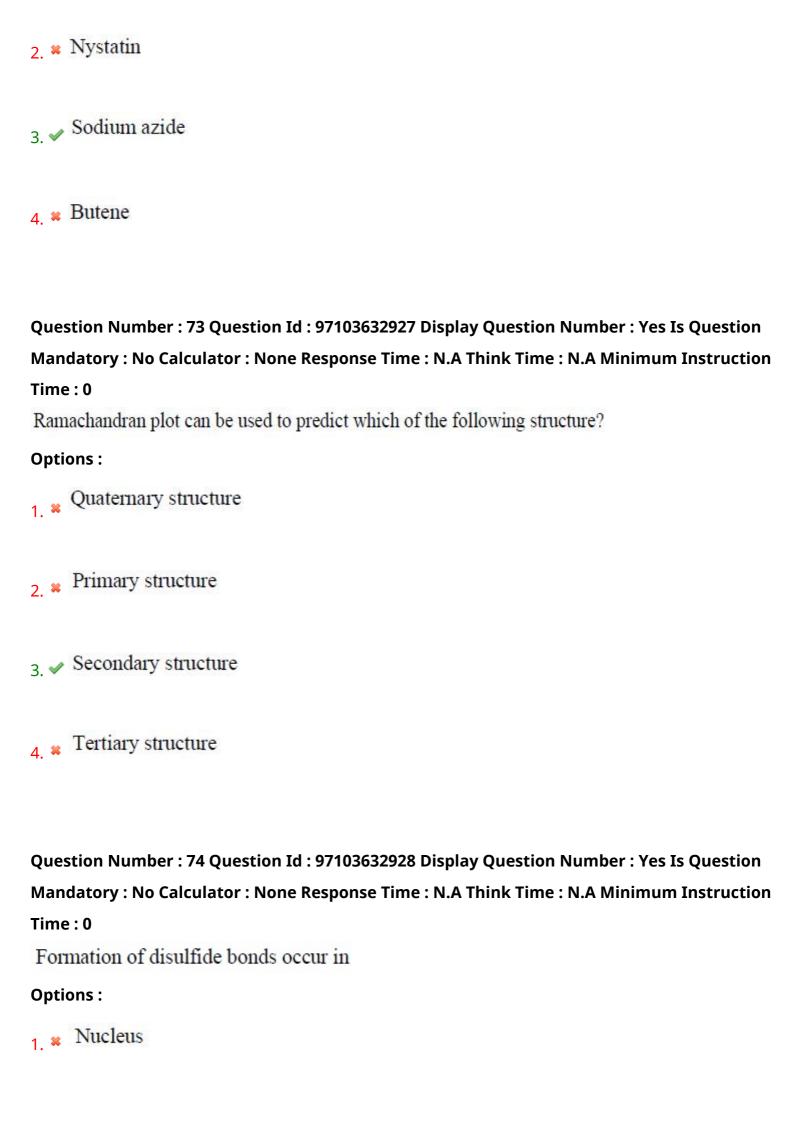
3. * Water	
4. * Oxygen	
Question Number : 72 Question Id : 97103632926 D	isplay Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time :	N.A Think Time : N.A Minimum Instruction
Time: 0	

Among the following, which chemical inhibit mitochondrial electron transport

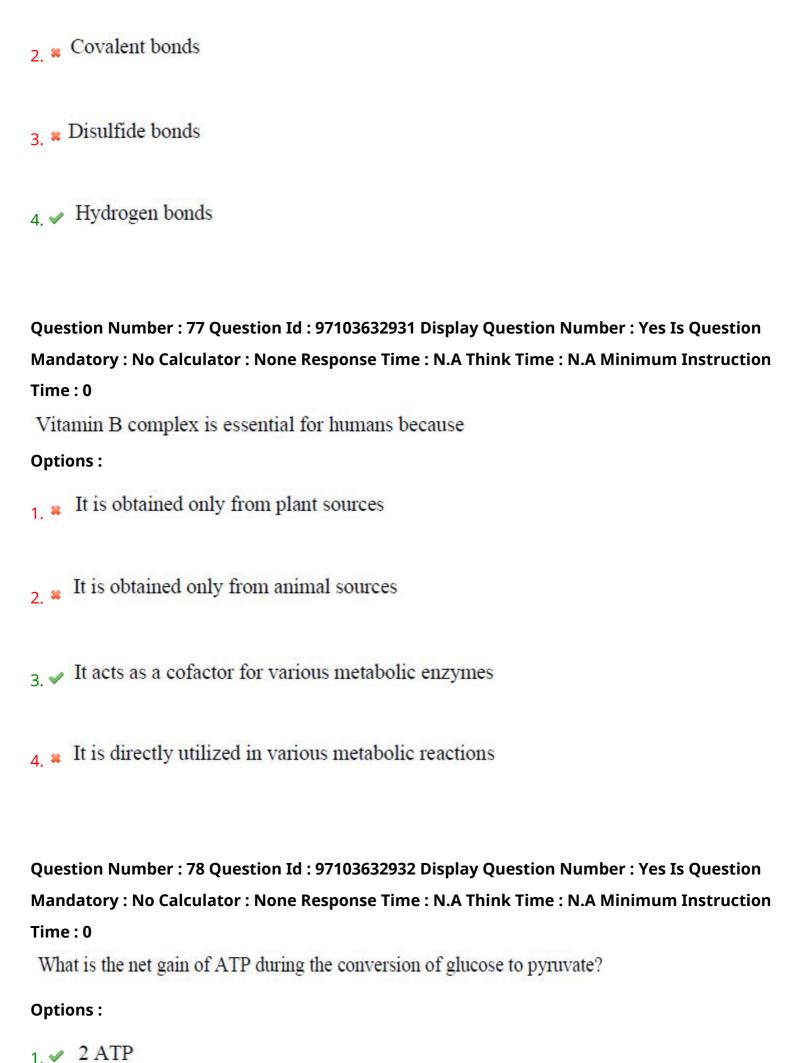
Options:

chain (ETC)

1. * Streptomycin



2. ✓ Endoplasmic reticulum
3. * Mitochondria
4. * Plasma membrane
Question Number : 75 Question Id : 97103632929 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
Which of the following is aromatic amino acid?
Options:
1. * Glutamic acid
2. Tryptophan
3. * Glycine
4. * Glutamine
Question Number : 76 Question Id : 97103632930 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
Which type of bonds form between adjacent segments of polypeptide chain of β sheet
Options:
1. * Ionic bonds



- 2. ***** 4 ATP
- 3. ***** 6 ATP
- 4. * 1 ATP and 1 GTP

Question Number: 79 Question Id: 97103632933 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Which of the following cell organelle is responsible for transporting, modifying, and packaging proteins and lipids?

Options:

- 1. * Mitochondria
- 2. * Endoplasmic reticulum
- 3.

 ✓ Golgi complex
- 4. * Lysosomes

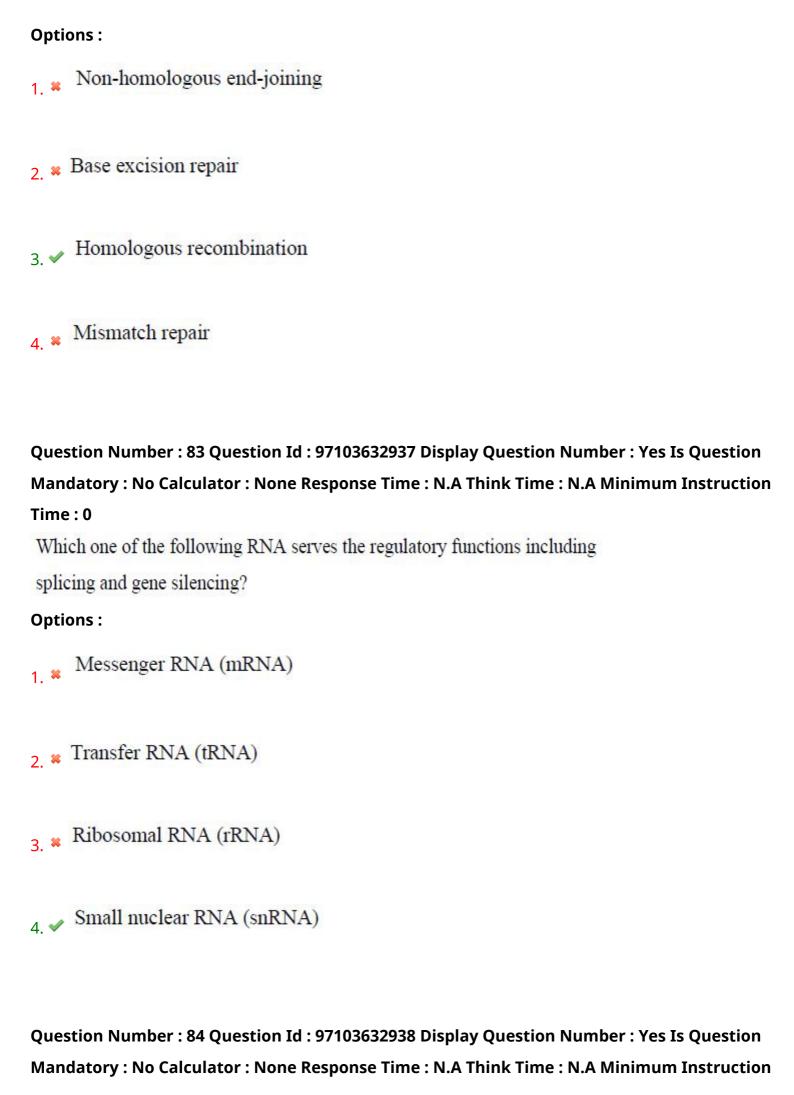
Question Number: 80 Question Id: 97103632934 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

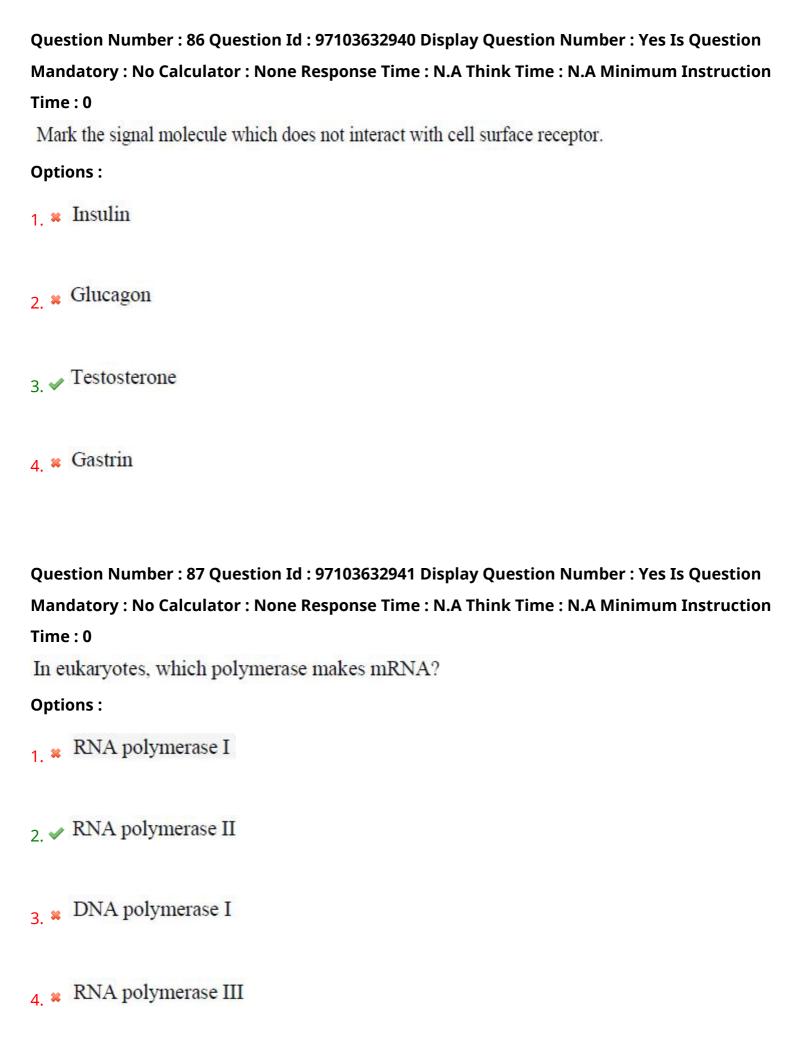
Negative potential across plasma membrane is maintained by

1. Active transport
2. * Passive transport
3. * Endocytosis
4. * Exocytosis
Question Number : 81 Question Id : 97103632935 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instructior
Time: 0
Nuclear DNA replicates in the phase
Options :
1. * G2 phase
2. * M phase
3. * G0 phase
4. ✓ S phase
Question Number : 82 Question Id : 97103632936 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instructior Time : 0
1111010

Error-free repair of double strand breaks in DNA is accomplished by



Time: 0 Which of the following enzyme used for joining DNA fragments? **Options:** 1. * Topoisomerase 2. * Terminal transferase 3. ✔ DNA ligase 4. * Alkaline phosphatase Question Number: 85 Question Id: 97103632939 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Which endonuclease cleaves both single and double stranded DNA molecules in a nonspecific manner? **Options:** 1. * S1 nuclease 2. * Bal31 nuclease 3. DNAse I 4. * Bam HI



Question Number: 88 Question Id: 97103632942 Display Question Number: Yes Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Given below are two sets of terms related to various methods used in biological science. Choose the correct option.

	Set A		Set B
A	Yeast two hybrid system	(i)	Real time PCR
В	Taqman probe	(ii)	Determining the ends of mRNA
C	Colony hybridization	(iii)	Identification of gene of interest
D	RACE	(iv)	Detection and analysis of proteins
E	2D PAGE	(v)	Protein-protein interactions

Options:

Question Number : 89 Question Id : 97103632943 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

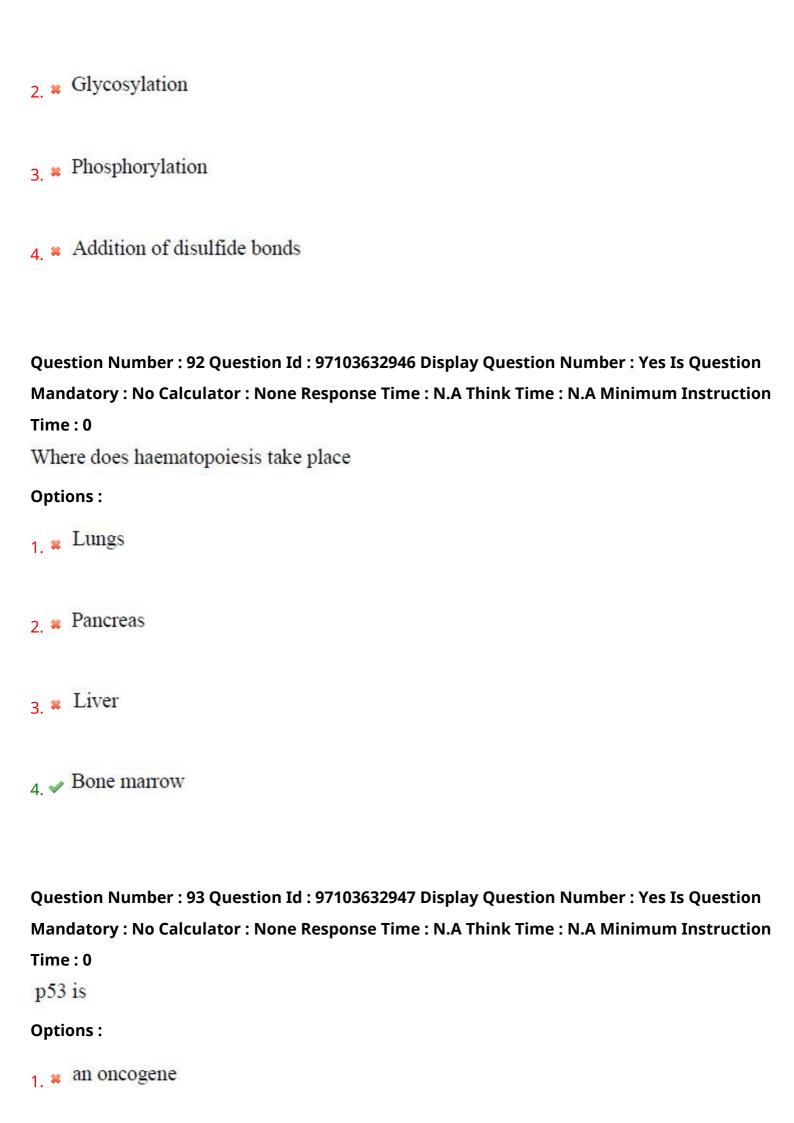
Time: 0

What is the role of the promoter region in the regulation of gene expression?

Options:

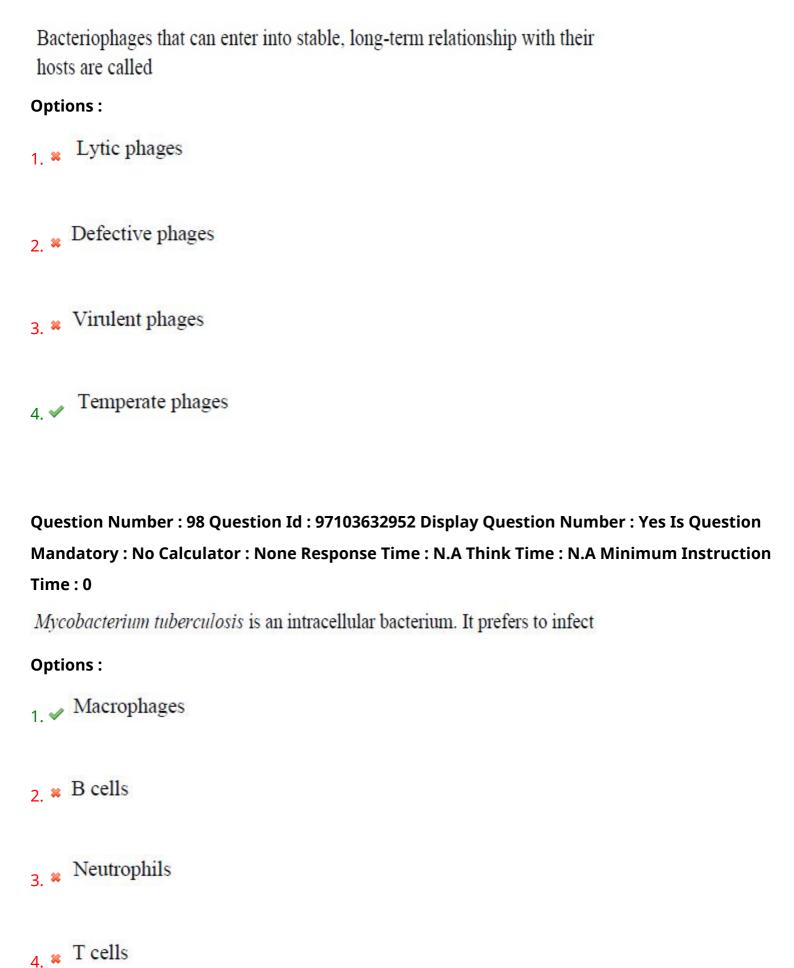
Recruit RNA polymerase and transcription factors to DNA

2 * Bind negative regulators to inhibit gene expression 3. * Allow for alternative splicing and recombination of genetic components 4. * Alter gene expression by binding transcription factors Question Number: 90 Question Id: 97103632944 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Secretary antibody is **Options:** 1 VIgA 2. * Ig D 3. * Ig E 4. * Ig G Question Number: 91 Question Id: 97103632945 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 One of the following is NOT related to post-translational modifications in eukaryotes. **Options:** 1. Poly A addition



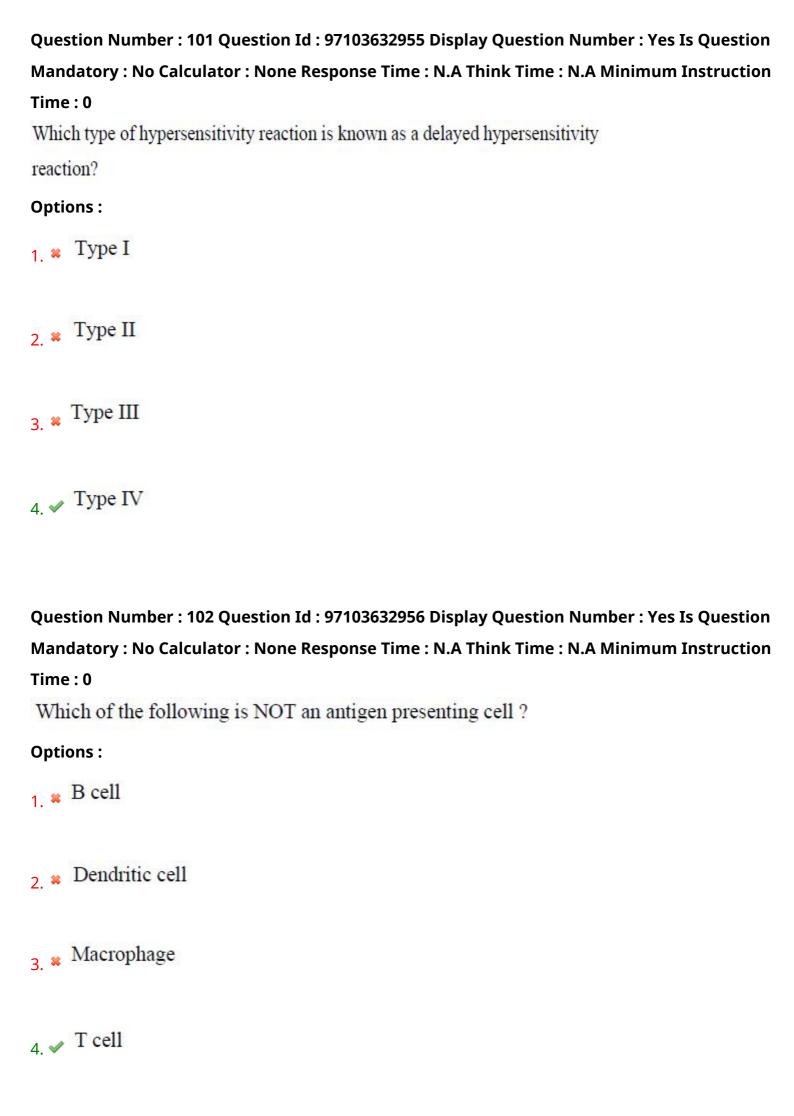
2. * a cytotoxic protein
3. ✓ a tumor suppressor gene
4. * virus induced gene
Question Number : 94 Question Id : 97103632948 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
The bacterium <i>Staphylococcus aureus</i> is which type of bacteria?
■ 100 Part No. 2 Pa
Options:
1. ✓ Mesophile
2. * psychrophile
3. * Acidophile
4. * Thermophile
Question Number : 95 Question Id : 97103632949 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
Human genome contains about
Options:
1.

* Two million nucleotide base pairs
2. ✓ Three billion nucleotide base pairs
3. * Four million nucleotide base pairs
4. * Five billion nucleotide base pairs
Question Number: 96 Question Id: 97103632950 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Which plant has been used in phytoremediation for uptake of cadmium from
contaminated soil
Options :
1. * Tridax procumbens
2. ✓ Brassica juncea
3. * Silene vulgaris
4. * Oscimum basalicum
Question Number : 97 Question Id : 97103632951 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0



Question Number: 99 Question Id: 97103632953 Display Question Number: Yes Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
Who is the father of vaccines?
Options:
1. * Robert Hooke
2. * Martinus Willem Beijerinck
3. ✓ Edward Jenner
4. * Alexander Fleming
Question Number: 100 Question Id: 97103632954 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Which is the following human serum immunoglobulins takes part in classical
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Which is the following human serum immunoglobulins takes part in classical complement fixation pathway?
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Which is the following human serum immunoglobulins takes part in classical complement fixation pathway? Options:
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Which is the following human serum immunoglobulins takes part in classical complement fixation pathway? Options: 1. ** IgD
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Which is the following human serum immunoglobulins takes part in classical complement fixation pathway? Options: 1. * IgD 2. * IgE



Question Number: 103 Question Id: 97103632957 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

A man whose father was colour blind and mother is normal marries a woman who had a colour blind mother and normal father. What percentage of male children of this couple will be colour blind?

Options:

- 1. * 0%
- 2. * 25%
- 3. **v** 50%
- 4. * 100%

Question Number : 104 Question Id : 97103632958 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0

β-pleated sheets are the example of

- 1. * Primary structure
- 2. * Tertiary structure
- 3. Secondary structure

Quaternary structure

Question Number: 105 Question Id: 97103632959 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Which of the following yeast can be used to produce microbial protein?

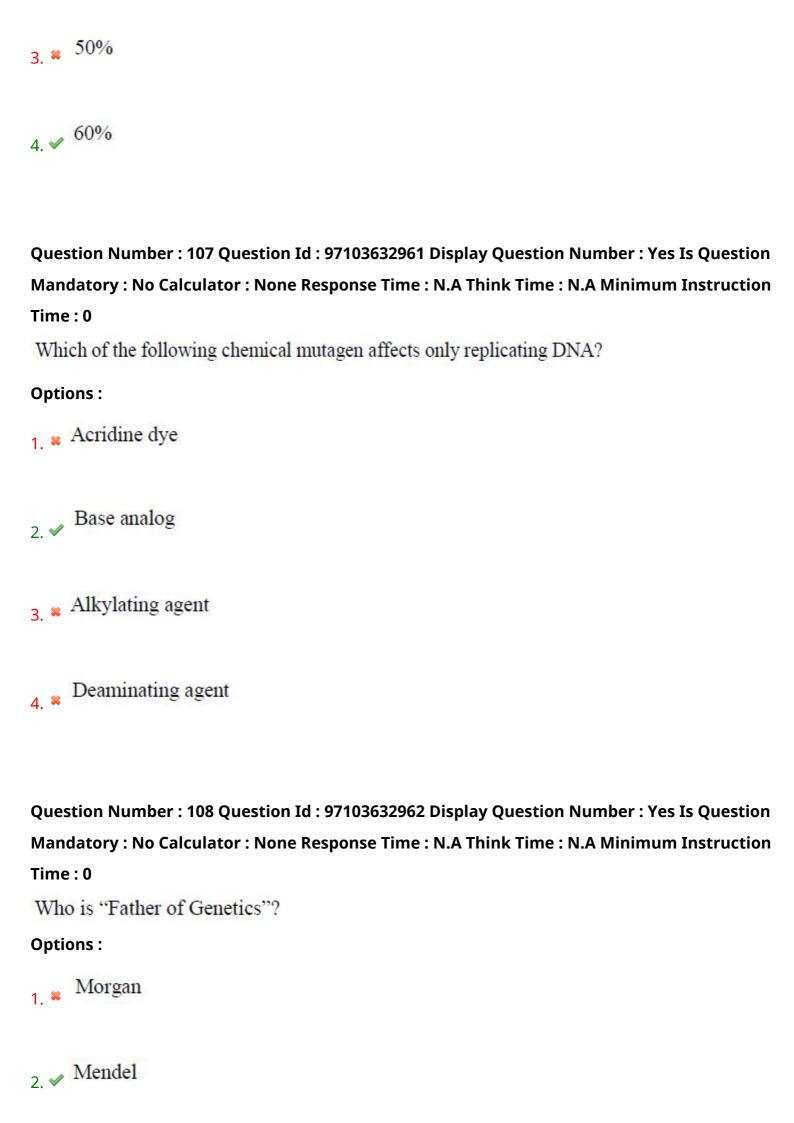
Options:

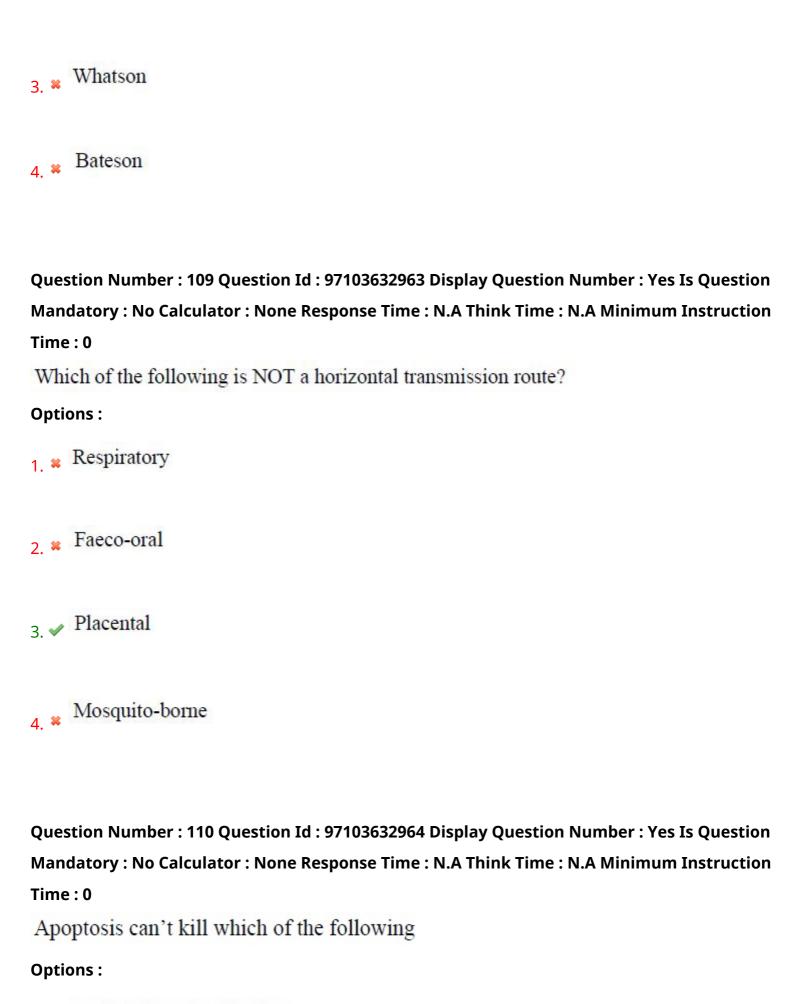
- Eremothecium ashbyi
- 2. V Candida utilis
- 3. * Saccharomyces cerevisiae
- 4 * Trichoderma spirale

Question Number: 106 Question Id: 97103632960 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

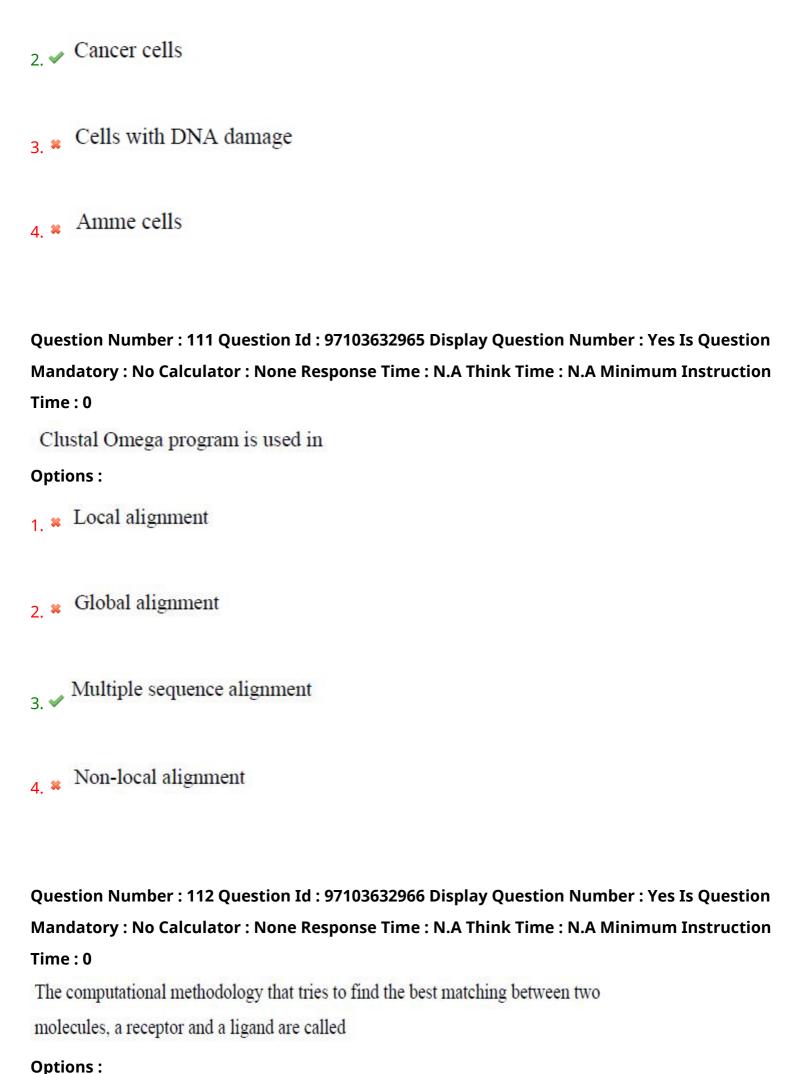
On sequence analysis of double stranded DNA, the results showed the content of cytocine, C was 20%. What is the amount of A and T put together?

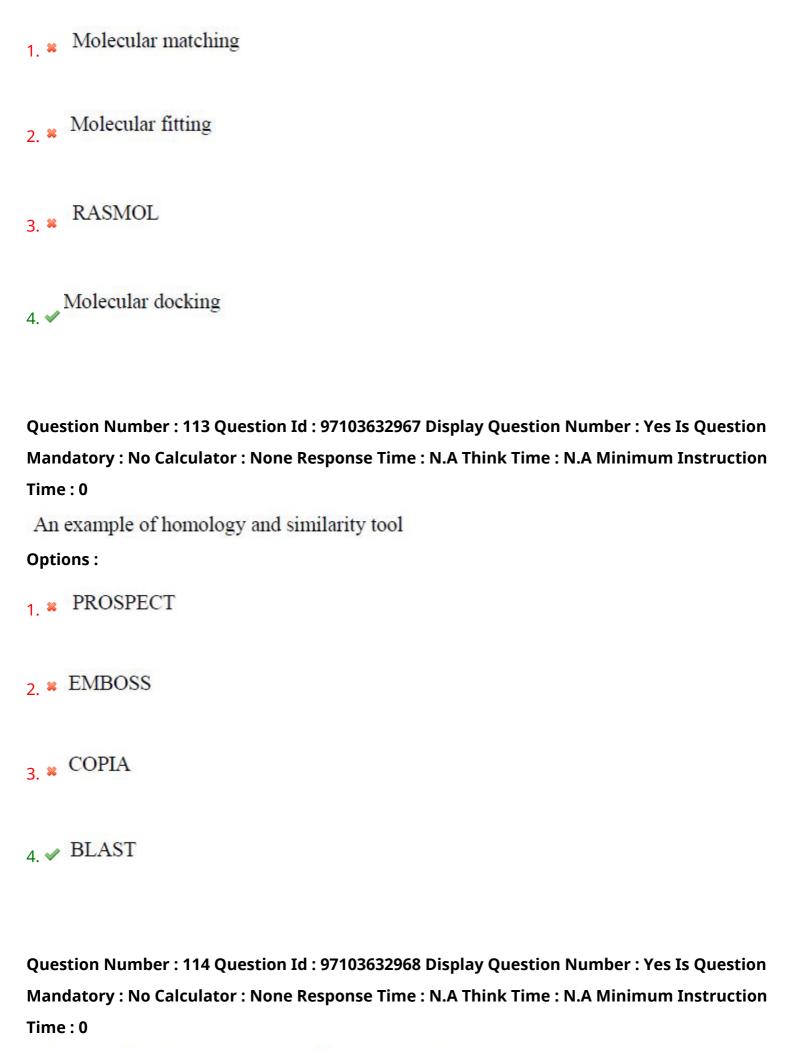
- 1. * 20%
- 2. * 30%





1. * Cells infected with vims

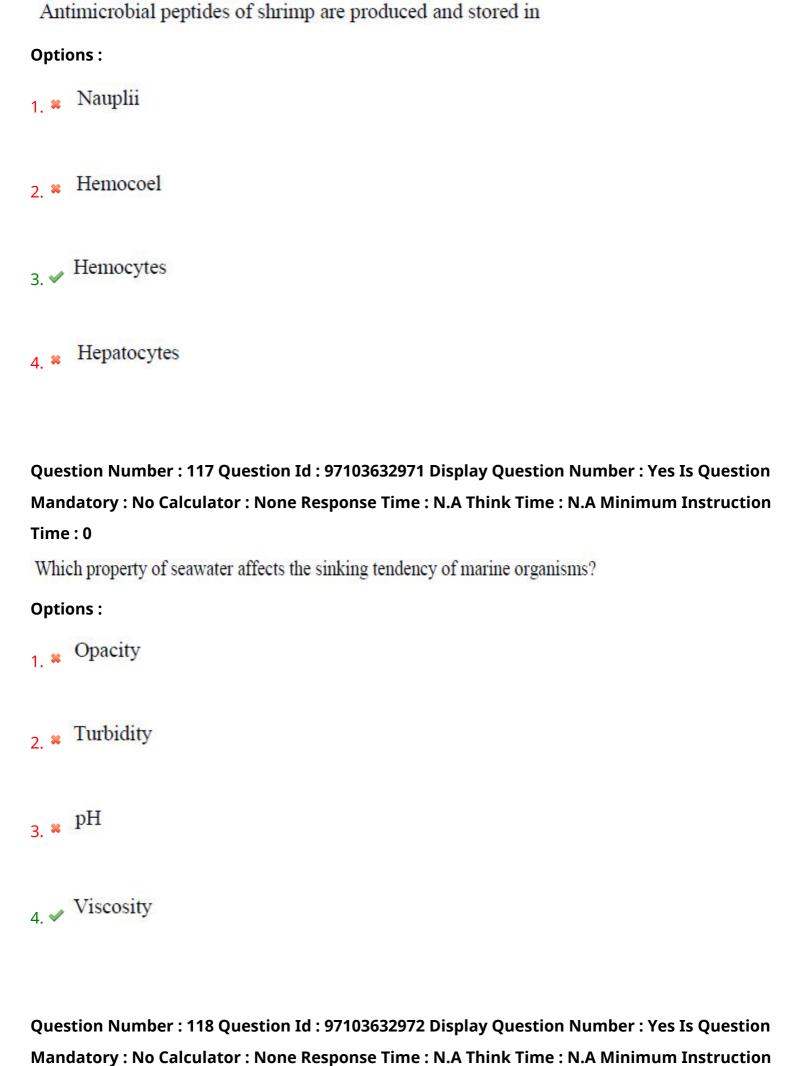




How does ethidium bromide is used to visualize DNA

Options:
stacked between histone molecules
2. * Binds to nucleotide bases
3. ✓ Intercalated between stacked bases
4. * Binding to phosphodiester backbone
Question Number : 115 Question Id : 97103632969 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
Which of the following is a method of virus detection at large scale with low cost
Options :
1. * Microarray
2. * Virus neutralization
3. V ELISA
4. * Real time PCR
Question Number: 116 Question Id: 97103632970 Display Question Number: Yes Is Question
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0



Time: 0 The crossing of F1 to either of the parents is known as **Options:** Test cross 2. F1 cross 3. ✓ Back cross 4. Double cross Question Number: 119 Question Id: 97103632973 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Which of the following genus is a spirochete? Options: 1. * Streptomyces coelicolor 2. V Chlamydia trachomatis 3. * Escherichia coli 4. * Treponema palladium

Question Number: 120 Question Id: 97103632974 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

One of the following is called as natural genetic engineer that is used for the generation of transgenic plants

Options:

- 1 * Escherichia coli
- 2. Agrobacterium tumefaciens
- 3. * Bacillus amyloliquefaciens
- 4. * Arabidopsis thaliana

Question Number : 121 Question Id : 97103632975 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The following promoter is used in the yeast cell expression vector.

- Alcohol oxidase
- 2. Polyhedrin
- Cauliflower mosaic virus 35S
- T7 polymerase

Question Number: 122 Question Id: 97103632976 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 First recombinant viral vaccine that is available in the market is **Options:** 1. * Polio 2. Hepatitis B 3. * Influenza 4. * Rubella Question Number: 123 Question Id: 97103632977 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 One of the following virus is the source of reverse transcriptase enzyme **Options:** Japanese encephalitis virus 2. **✓** HIV 3. Measles virus

4. * Ebola virus

Question Number: 124 Question Id: 97103632978 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Which of the following is the most accurate method for microbial assay of antibiotics?

Options:

- 1. * Qualitative assay
- 2. Biological assay
- 3.

 ✓ Chemical assay
- 4 * Physical assay

Question Number: 125 Question Id: 97103632979 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

The major cause of environmental degradation is

- 1 * Biomagnification
- 2. Nitrogen deposition
- 3. * Quorum quenching

4. Liginification

Question Number: 126 Question Id: 97103632980 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Total Magnification of an optical light compound microscope is obtained by

Options:

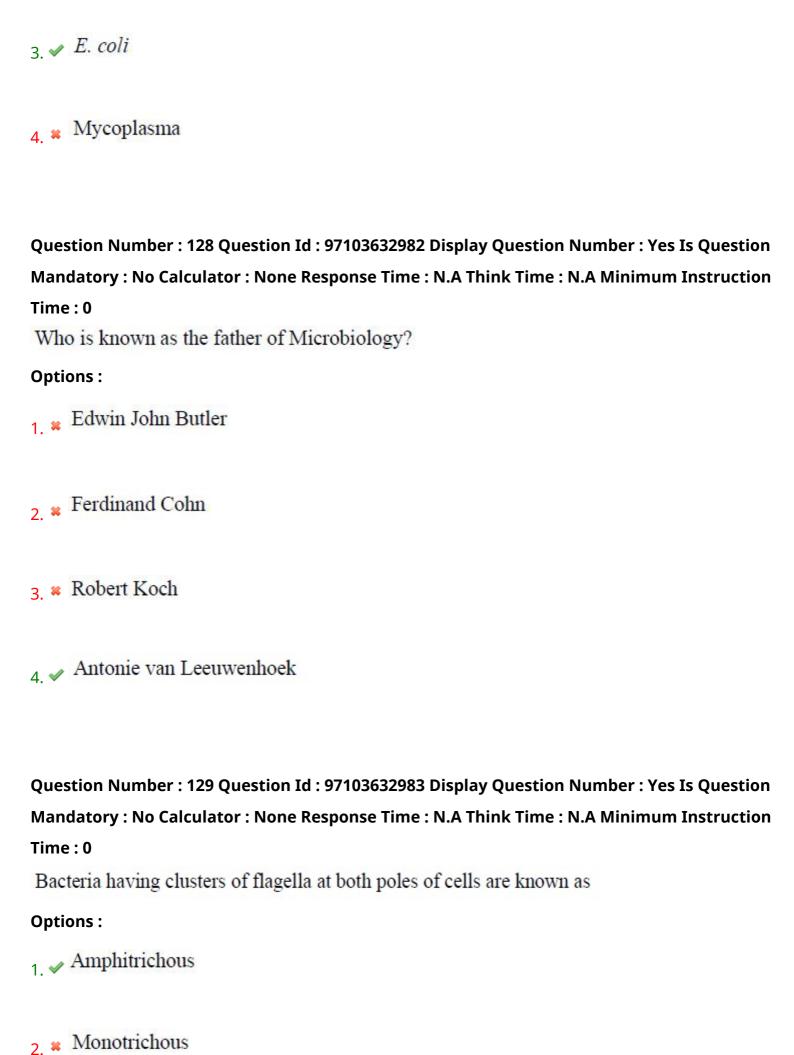
- Magnifying power of the objective lens
- 2. * Magnifying power of eyepiece
- 3. * Magnifying power of condenser lens
- 4.

 ✓ Magnifying power of both the objective lens and eyepiece

Question Number: 127 Question Id: 97103632981 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Which of the following contains structure composed of N-acetylmuramic acid and N-acetylglucosamine?

- 1. X Yeast
- 2. * Amoeba



3. * Atrichous 4. Lophotrichous Question Number: 130 Question Id: 97103632984 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 The following technique is used for virus purification **Options:** 1. Flow cytometry 2. * Electron microscopy 3. VItracentrifugation 4. * Spectrophotometry Question Number: 131 Question Id: 97103632985 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Select a foodborne toxin Options: 1. Botulinum 2. * Tetanus

3. * Diphtheria

4. * Chlamydia

Question Number: 132 Question Id: 97103632986 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

One of the following virus can be used as biopesticide

Options:

1. Baculovirus

2. * Tobacco mosaic virus

3. * Vaccinia virus

4. * Poxvirus

Question Number: 133 Question Id: 97103632987 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

A serological diagnosis of a primary viral infection may be made for the

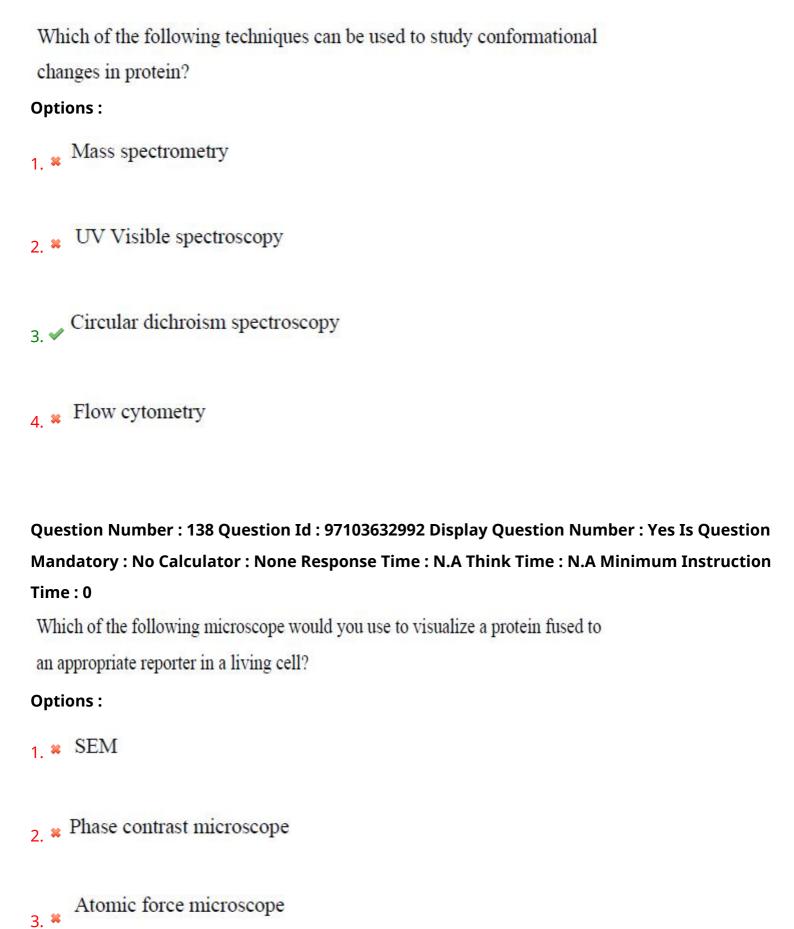
Options:

1. * Detection of virus-specific IgA

Detection of virus-specific IgG 3. * Detection of virus-specific IgE 4. Detection of virus-specific IgM Question Number: 134 Question Id: 97103632988 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 A type of cell culture that can reproduce for an extended number of generations and is used to support viral replication is **Options:** 1. * Diploid fibroblast cells 2. * Primary cell culture 3. Continuous cell culture 4 * Connective tissue Question Number: 135 Question Id: 97103632989 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Covaxin vaccine is based on one of the following **Options:**

1. * mRNA vaccine 2. Inactivated whole virus vaccine 3. * Peptide vaccine 4. * Adenoviral vector Question Number: 136 Question Id: 97103632990 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 One of the following bacteria is the source of *Pfu* DNA polymerase **Options:** 1. * Thermococcus litoralis 2. Pyrococcus furiosus Thermus aquaticus 4 Bacillus thruengensis Question Number: 137 Question Id: 97103632991 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0



4. Fluorescent microscope

