# Andhra Pradesh State Council of Higher Education

#### **Notations:**

**Change Theme:** 

**Help Button:** 

**Show Reports:** 

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

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

Question Paper Name :	Botany 2nd May 2024 Shift 1
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
Auto Save on Console?	Yes
Change Font Color :	No
Change Background Color :	No

No

No

No

Show Progress Bar: No

**Is this Group for Examiner?**: No

**Examiner permission :** Cant View

**Show Progress Bar?:** No

#### **Research Methodology**

**Section Id:** 971036387

Section Number:

Mandatory or Optional: Mandatory

Number of Questions: 66

Section Marks: 70

**Enable Mark as Answered Mark for Review and** 

Clear Response :

**Maximum Instruction Time:** 0

Is Section Default?: null

Question Number: 1 Question Id: 97103627214 Display Question Number: Yes Is Question

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

Yes

Time: 0

The acronym MOOCS stands for

- Modular Open Online Courses
- 2. \* Mass Online Offline Class
- Multi-media Open Online Classes

#### Massive Open Online Courses

Question Number: 2 Question Id: 97103627215 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

The idea of making students watch an education video at home and participate in discussion during the class is known as

#### **Options:**

- 1. \* Diverse class room
- 2. ✓ Flipped class room
- Multi-media class room
- Google class room

Question Number : 3 Question Id : 97103627216 Display Question Number : Yes Is Question

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

Time: 0

The term 'Zoom' in the context of ICT refers to

- Learning Management System
- 2. \* Flipped class room

Video conferencing tool

Online data collection system

Question Number : 4 Question Id : 97103627217 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 a popular method of feedback in ICT based learning

#### **Options:**

- WhatsApp web
- 2. Dropbox
- 3. Google Drive
- 4. ✓ Google form

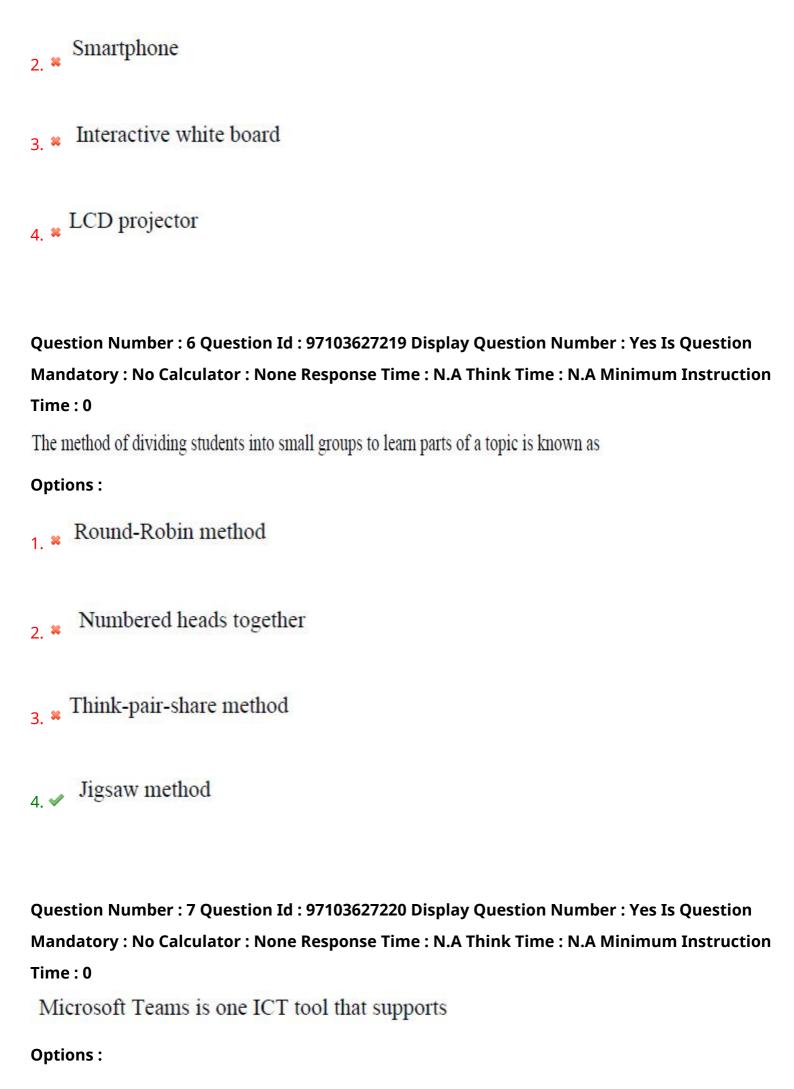
Question Number : 5 Question Id : 97103627218 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

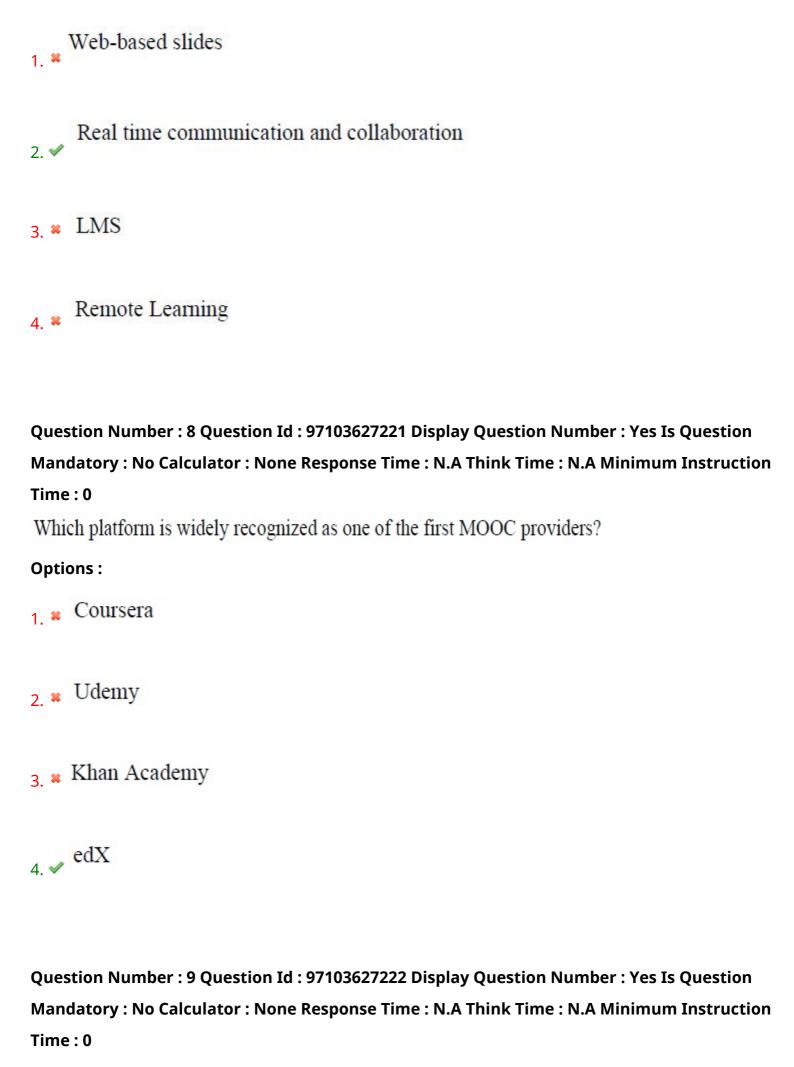
Time: 0

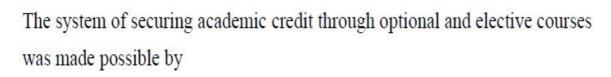
A commonly used BYOD (Bring Your Own Device) in ICT supported learning process is

#### **Options:**

Laptop









- MOOCS
- 2. \* Semester System
- 3. Choice Based Credit System
- Distance Education

Question Number: 10 Question Id: 97103627223 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 types of questions cannot be easily auto-graded by LMS software.

- True-false type questions
- 2. Subjective questions
- Multiple Choice questions
- Matching type questions

Question Number: 11 Question Id: 97103627224 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

An example of data measured on nominal scale is

#### Options:

- Actual age of a person
- 2. \* Body Weight
- Gender 3. ✔
- 4. Shoe length

Question Number: 12 Question Id: 97103627225 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Review of relevant literature is the vital step in the following stage of research

#### **Options:**

- Data collection
- Problem formulation stage

Sampling design

2 💥

### Interpretation of results

Question Number : 13 Question Id : 97103627226 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 style is commonly used in thesis writing for

humanities?

#### **Options:**

MLA style

2. \* APA style

3. \* IEEE style

Chicago style

Question Number: 14 Question Id: 97103627227 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 expansion of the acronym APA in the style of references?

#### **Options:**

Associated Printers Architecture

1. \*

American Psychological Association

2. 

Advanced Psychological Appendix

3. 

\*\*

4. \* Authenticated Publishing Act

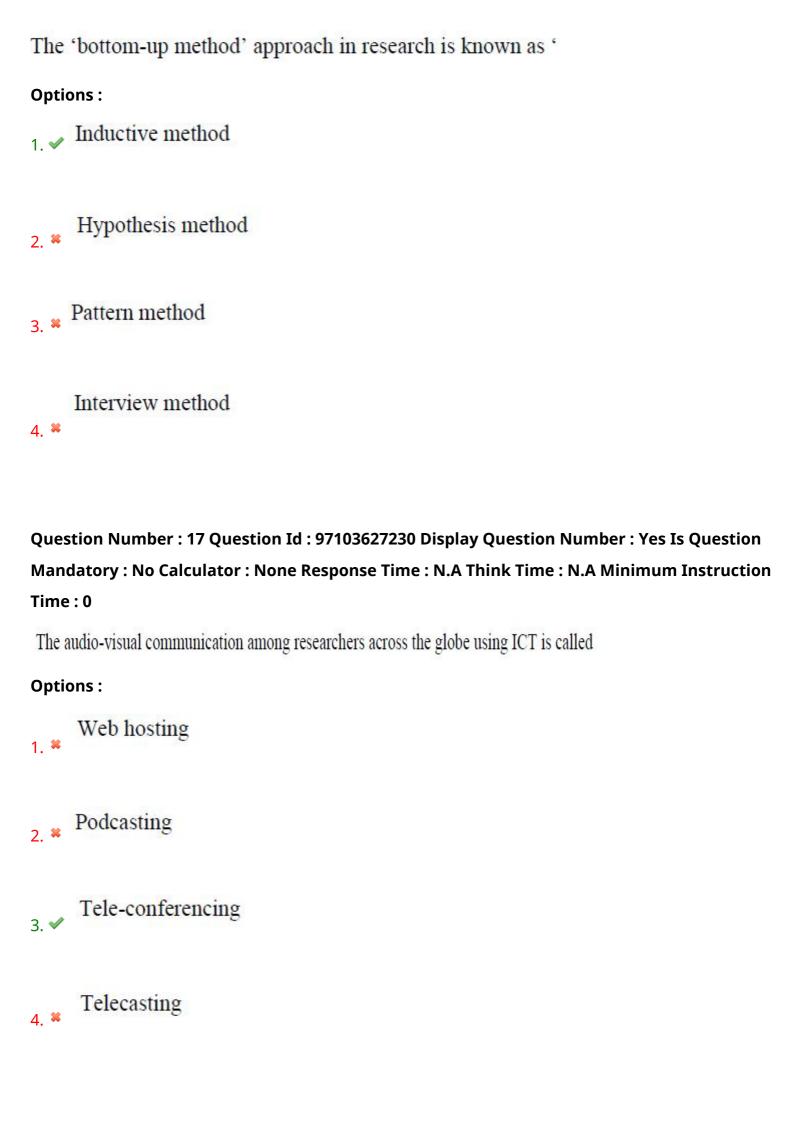
Question Number: 15 Question Id: 97103627228 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Every published paper/article in a journal is expected to have completed the stage

#### Options:

- Publisher's review
- 2. \* Editorial review
- Public review
- Peer review

Question Number: 16 Question Id: 97103627229 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0



Question Number: 18 Question Id: 97103627231 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 a powerful tool to seek content on a topic from internet resources

#### **Options:**

- 1. W GPS
- Alta Vista
- 3. ✓ ChatGPT
- 4. \* Skype

Question Number: 19 Question Id: 97103627232 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The acronym CARE in UGC-CARE stands for

- Committee on Academic Research Ethics
- Consortium for Academic Research and Ethics
- Consortium for Academic Regulatory Ethics

Core Academic Research Ethics 4. **
Question Number: 20 Question Id: 97103627233 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0  By group discussion one can evaluate the ability of a participant to
Options:
Dominate others
Control other participants 2. **
Confer with other participants 3. ✓
Lead over others 4. **
Is Section Default?: null
Question Id : 97103627234 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 following passage and answer the questions below:

According to the World Health Organization cancer is the second leading cause of death globally. The cancer burden continues to grow globally. However, survival rates are improving with the help of advanced diagnosis and treatment. Regular screenings and early detection are two main key factors that help improve survival rates. "Lung, prostate, colorectal, stomach and liver cancer are the most common types of cancer in men, while breast, colorectal, lung, cervical and thyroid cancer are the most common among women," mentions the WHO website. Tobacco use alone accounts for around one-third of deaths from cancers. Other risk factors include high body mass index, alcohol consumption, family history, some health conditions, environment, infections by certain viruses and more. Common treatment options include surgery, chemotherapy, radiation therapy, bone marrow transplant, targeted drug therapy and more.

#### **Sub questions**

Question Number : 21 Question Id : 97103627235 Display Question Number : Yes Is Question

 ${\bf Mandatory: No\ Calculator: None\ Response\ Time: N.A\ Think\ Time: N.A\ Minimum\ Instruction}$ 

Time: 0

Which among the following is not the treatment options for Cancer?

- 1. Chemotherapy
- Radiation therapy
- 3. ✓ PRP

Bone marrow transplant

Question Number: 22 Question Id: 97103627236 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The Survival rate of cancer increases with

#### **Options:**

- 1. \* Stomach and live cancer
- Regular screening and early detection
- Tobacco use
- Infections by certain viruses

Question Number: 23 Question Id: 97103627237 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 commonly found cancer specific to women

- Lung
- 2. \* Cervical

→ Prostate
Colorectal 4. **
Question Number : 24 Question Id : 97103627238 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0  The following is not known risk factor for cancer
Options :
High body mass index  1. **
High glucose levels 2. ✓
Alcohol consumption 3. **
4. * Chewing tobacco
Question Number : 25 Question Id : 97103627239 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Options :

Common therapy to treat cancer includes

1. **	Physiotherapy	
2. **	Laser therapy	
3. *	Palliative care	
4. 🗸	Chemotherapy	
Is Sec	ction Default? :	null
Mano Time What	nt is an element of evaluation in the Choice Based Cre	.A Think Time : N.A Minimum Instructio
Optio	ons:	
1. 🗸	Continuous assessment	
2. **	Multiple-choice questions	
3. **	Final exams only	
4. **	No grading system	

Question Number : 27 Question Id : 97103627241 Display Question Number : Yes Is Question

Time: 0
During lecturing the class room teacher shall be highly cognizant about
Options:
Fixed posture  1. **
Proximity 2. **
Frequent pausing 3. **
Voice modulation 4. ✓
Question Number : 28 Question Id : 971036272/2 Display Question Number : Ves Is Question
Question Number: 28 Question Id: 97103627242 Display Question Number: Yes Is Question  Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction
Question Number : 28 Question Id : 97103627242 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 A majority of communication problems arise due to
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 A majority of communication problems arise due to Options:
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 A majority of communication problems arise due to  Options:  Poor oral communication  Physical appearance

#### Body language

Question Number: 29 Question Id: 97103627243 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The following is an example of non-verbal communication

#### **Options:**

Question paper

1. 🕷

2. \* Google form

SMS on mobile

3. 🗱

Facial expression

Question Number : 30 Question Id : 97103627244 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

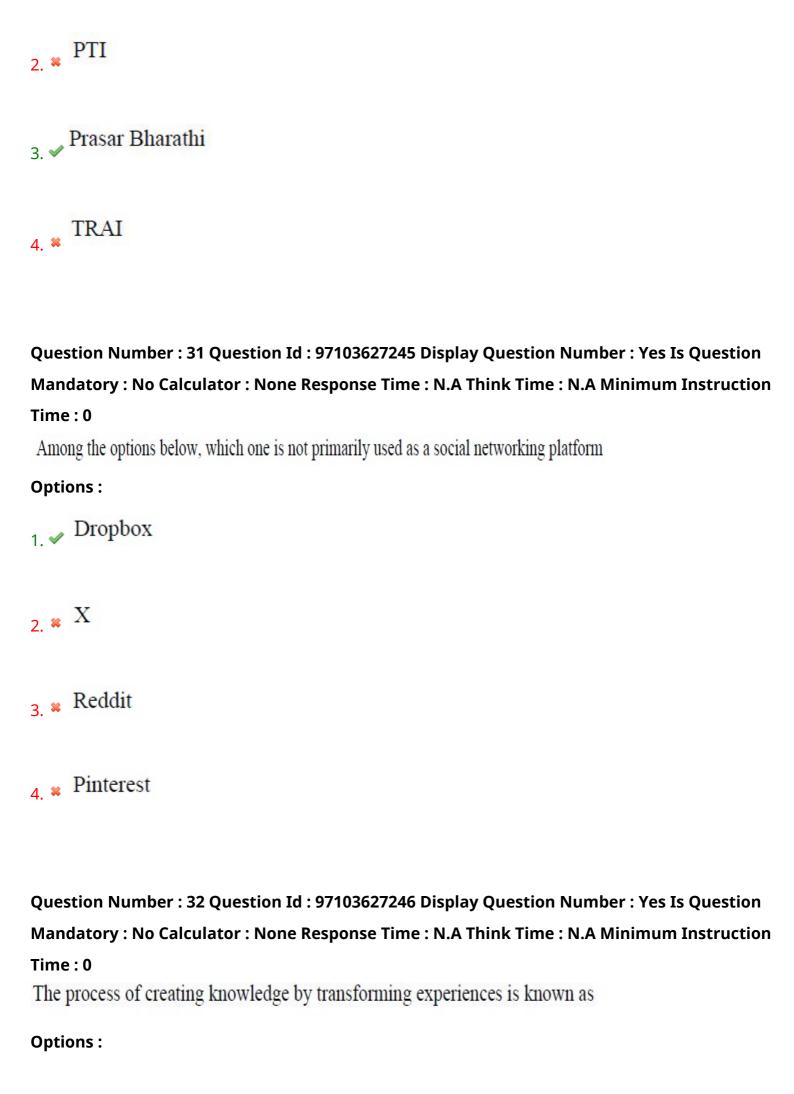
Time: 0

India's largest public sector broadcasting agency is

#### Options:

Doordarshan

1. 3



```
Abstraction
     Conceptualization
    Learning
    Experimentation
4. 💥
Question Number: 33 Question Id: 97103627247 Display Question Number: Yes Is Question
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction
Time: 0
An assertive communication (either written or spoken) will be powerful
when it is given as ____
Options:
     'I' message
     'We' message
     'You' message
4. * 'They' message
```

Question Number : 34 Question Id : 97103627248 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0

Two numbers are respectively 20% and 50% more than a third number.

The ratio of the two numbers is

#### **Options:**

4:5

2. \* 2:5

3. \* 3:5

4. \* 6:7

Question Number: 35 Question Id: 97103627249 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The cost price of 25 articles is the same as the selling price of x articles. If the profit is 30%, then the value of x is

#### Options:

1. \* 15

2. 🗸 20

Question Number: 36 Question Id: 97103627250 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

A fruit seller sold 40% of watermelons available with him and still left with 420 fruits. How many fruits had he originally?

#### **Options:**

Question Number: 37 Question Id: 97103627251 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Suppose the simple average of 20 numbers is zero. How many of these numbers can be greater than zero?

1. \* 0

20

3. \* 10

4. 🗸 19

Question Number: 38 Question Id: 97103627252 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

A man purchased a cow for Rs. 3000 and sold it the same day for Rs. 3600, allowing the buyer credit for 2 years. If the rate of interest is 10% per annum, then the man has a gain of

Options:

1. 🗸

2. \* 5%

3. **▼** 7.5%

4. \* 10%

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

Time: 0

An aeroplane covers a certain distance at a speed of 240 kmph in 5 hours. At what speed it should travel in order to cover the same distance in 2 hours?

#### Options:

300 Kmph

360 Kmph

720 Kmph

4. **✓** 600 Kmph

Question Number: 40 Question Id: 97103627254 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

What decimal of an hour is a second?

#### Options:

0.0025

0.0256

4.

Question Number: 41 Question Id: 97103627255 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The process of drawing general conclusions from a set of specific observations is called

#### **Options:**

Inductive logic

Analogy

Speculative logic

Evidence-based logic

Question Number : 42 Question Id : 97103627256 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0

Reasoning is an instrument whose purpose is to

#### Options:

1. Spread knowledge

Live in imaginary world Anticipate unknown things 3. \*\* Grasp the unknown from the known Question Number: 43 Question Id: 97103627257 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 A statement that asserts all or some members of one category are included in the other category is called **Options:** Speculative statement 1. 💥 Predictive statement 2. 💥 Categorical statement Non-deniable statement

Question Number : 44 Question Id : 97103627258 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Year	Item of Expenditure (in Rs. lakhs)				
1 Cai	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

What is the average amount of interest per year which the company had to pay during this period?

#### Options:

Question Number : 45 Question Id : 97103627259 Display Question Number : Yes Is Question

 ${\bf Mandatory: No\ Calculator: None\ Response\ Time: N.A\ Think\ Time: N.A\ Minimum\ Instruction}$ 

Year	Item of Expenditure (in Rs. lakhs)				
1 Cai	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

The total amount of bonus paid by the company during the given period is approximately what percent of the total amount of salary paid during this period?

#### Options:

Question Number : 46 Question Id : 97103627260 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Year	Item of Expenditure (in Rs. lakhs)				
1 Cai	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

Total expenditure on all these items in 1998 was approximately what percent of the total expenditure in 2002?

#### **Options:**

Question Number : 47 Question Id : 97103627261 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Year	Item of Expenditure (in Rs. lakhs)				
1 Cai	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

The total expenditure of the company over these items during the year 2000 is?

#### **Options:**

Question Number : 48 Question Id : 97103627262 Display Question Number : Yes Is Question

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

Year	Item of Expenditure (in Rs. lakhs)				
1 Cai	Salary	Fuel and Transport	Bonus	Interest on Loans	Taxes
1998	288	98	3.00	23.4	83
1999	342	112	2.52	32.5	108
2000	324	101	3.84	41.6	74
2001	336	133	3.68	36.4	88
2002	420	142	3.96	49.4	98

The ratio between the total expenditure on Taxes for all the years and the total expenditure on Fuel and Transport for all the years respectively is approximately?

#### **Options:**

4. \* 5:8

Question Number: 49 Question Id: 97103627263 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

One of the following is not a search engine

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	ntinne	•
$\mathbf{\mathcal{\mathcal{\mathcal{\mathcal{\mathcal{\mathcal{\mathcal{\mathcal{\mathcal{\mathcal{\mathcal{\mathcal{\mathcal{\mathcal{\mathcal{\mathcal{\mathcal{\mathcal$	pulli	•

Google

Yahoo

3. ✓ One-drive

Bing

Question Number: 50 Question Id: 97103627264 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The standard protocol for internet is

#### **Options:**

Java

HTML

FTTP

4. ✓ TCP/IP

Question Number: 51 Question Id: 97103627265 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

A popular term related to the design of a digital learning environment is

#### Options:

- LMS
- e-kalpa E-kalpa
- E-commerce
- 4. E-tendering

Question Number: 52 Question Id: 97103627266 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The Government of India created an initiative to encourage scientific temper among students, known as ATL, whose full expansion is

- Atal Technology Lab
- 2. Atal Tinkering Lab

\* Applied Techno Lab

4. \* Applied Technology Lab

Question Number : 53 Question Id : 97103627267 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 a web browser

#### **Options:**

Microsoft Windows

Google Drive

Google Chrome

4. \* HTML

Question Number: 54 Question Id: 97103627268 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Online courses through NPTEL platform are offered by

#### **Options:**

1. \* NITs

2. \* IIPA

3. \* IIMs

Jointly IITs and IISc

Question Number: 55 Question Id: 97103627269 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The chief objective of the PARAM Shavak of the Government of India is to provide

#### **Options:**

- MOOCs in all subjects
- Database of theses and dissertations
- Affordable supercomputing facilities for research
- Knowledge base for start-ups

Question Number: 56 Question Id: 97103627270 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The movement of topsoil and litter from one place to another is known as

# Options: 1. ✓ Soil erosion Soil submersion

Question Number: 57 Question Id: 97103627271 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The hearing sensitivity of human ear is

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
The organic material in solid waste is decomposed by
Options:
Soil particles
2. * Oxidation
Flow of water 3. **
4. ✓ The action of microorganisms
Question Number: 59 Question Id: 97103627273 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 The oldest commonly followed method to dump solid waste is
Options :
Landfill 1. ✓
2. * Burning
3. * River flow

Question Number: 60 Question Id: 97103627274 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The harmful pollutant released by petrol/diesel vehicles is

#### **Options:**

Carbon Dioxide

Ozone

Carbon Monoxide

Nitrogen Oxide

Question Number : 61 Question Id : 97103627275 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 a result of global warming

#### Options:

Melting glaciers

Population growth

3. \* Raising sea levels

Heat waves

4. \*\*

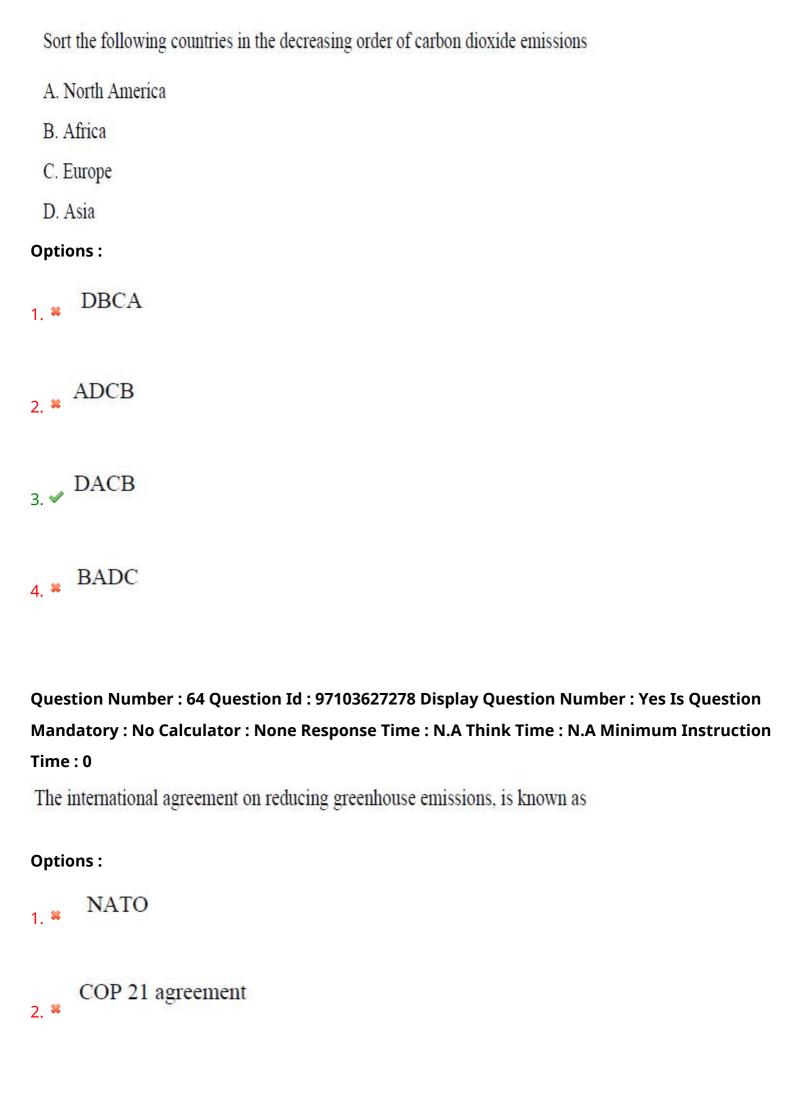
Question Number: 62 Question Id: 97103627276 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Which of the following is mostly responsible to global warming?

#### Options:

- Deforestation
- Erosion of sea coasts
- Fossil fuel combustion
- Agriculture

Question Number: 63 Question Id: 97103627277 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0



Convention on Biological Diversity

Montreal agreement

4. 🕷

Question Number : 65 Question Id : 97103627279 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0

The Montreal Protocol on ozone layer protection came into effect in the year

#### **Options:**

1. 1989

2. \* 1998

3. \* 1978

1987

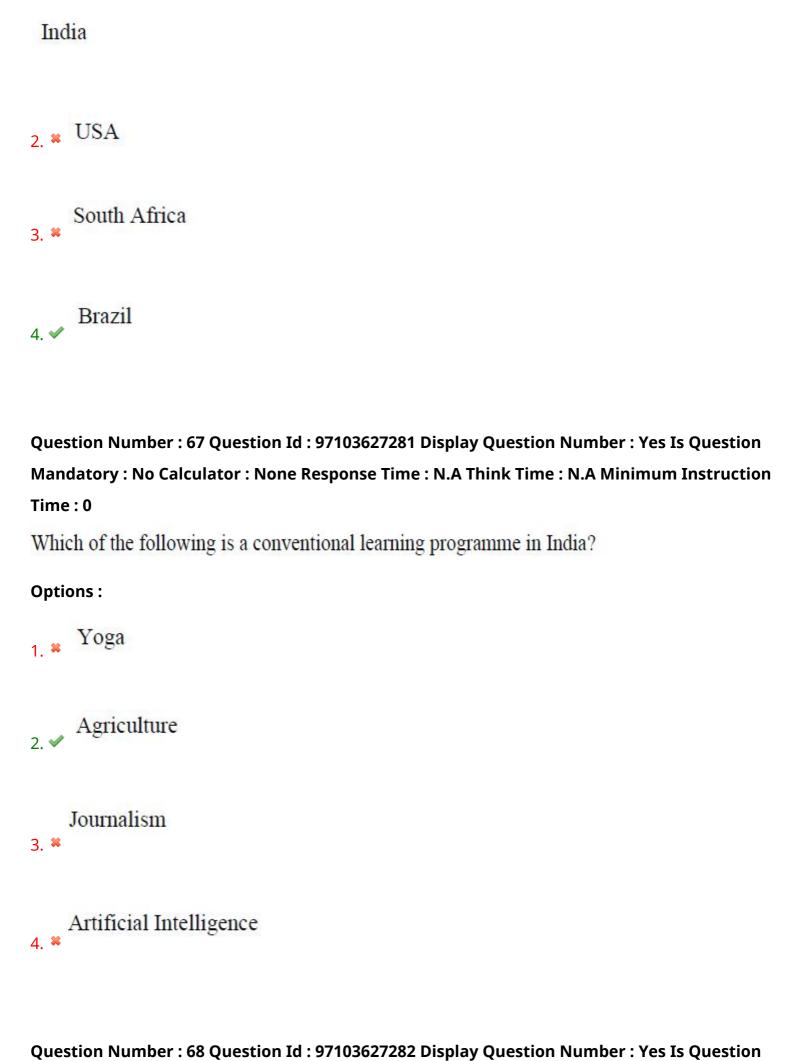
4. 3

Question Number: 66 Question Id: 97103627280 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The first earth summit on biological diversity was held in

#### **Options:**

1. \*\*



Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction
Time: 0
The 24-hour educational programme launched in 2020 and telecast in India is termed as
Options:
Gyan Darshan  1. ✓
NPTEL 2. **
SASTRA 3. **
SWAYAM 4. **
Question Number: 69 Question Id: 97103627283 Display Question Number: Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
The quality of Technical and Management education in India is monitored by
Options:
1. * ICMR
NAAC 2. **
3. ** UGC

Question Number: 70 Question Id: 97103627284 Display Question Number: Yes Is Question

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

Time: 0

The Medical Council of India is recently renamed as

#### **Options:**

Indian Medical Association

1. \*\*

ICMR

3. National Medical Commission

Pharmacy Council of India

4. \*

## **Botany**

**Section Id:** 971036388

Section Number: 2

Mandatory or Optional: Mandatory

Number of Questions: 70

Section Marks: 70

**Enable Mark as Answered Mark for Review and** 

**Clear Response:** 

Yes

Maximum Instruction Time :	0
Is Section Default? :	null
Question Number : 71 Question Id : 97103627285 I	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 maximum number of shared electron pairs in a sin two atoms	igle covalent bond between
Options :	
1. * One	
2. ✓ Two	
3. * Three	
4. * Four	
Question Number : 72 Question Id : 97103627286 I	Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time	
Time: 0	
Which is the most abundant biomolecule on ea	rth?
Options:	
1. * Mineral salts	
2. * Proteins	
<del>_</del> .	
3. * Lipids	

# 4. Carbohydrates

Question Number : 73 Question Id : 97103627287 Display Question Number : Yes Is Question

 ${\bf Mandatory: No\ Calculator: None\ Response\ Time: N.A\ Think\ Time: N.A\ Minimum\ Instruction}$ 

Time: 0

Most abundant RNA in the cell is

#### **Options:**

1. rRNA

2. \* mRNA

3. \* tRNA

4. \* siRNA

Question Number: 74 Question Id: 97103627288 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 weakest bond?

#### Options:

1. \* Ionic bond

2. \* Metallic bond

3. \* Covalent bond

4. Van der Waals force

Question Number: 75 Question Id: 97103627289 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

A single letter abbreviation for Tryptophan is

#### **Options:**

- 1. W
- 2. **\*** T
- 3. \* R
- 4. \* Y

Question Number : 76 Question Id : 97103627290 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0

Buffers are mixtures of

- 1. \* Strong acid and strong base
- 2. \* Strong acid and weak base
- 3. Weak acid and their conjugate base

4 \* Weak base and weak acid

Question Number: 77 Question Id: 97103627291 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Pyruvate generated by glycolysis, is converted to acetyl-coenzyme A, which is metabolized by citric acid cycle, generating energy rich molecules. From the choices given below, select the right combination of these molecules produced from one molecule of acetyl-co A

#### **Options:**

Question Number: 78 Question Id: 97103627292 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

The general mechanism is that an enzyme acts by

#### **Options:**

1. Reducing the activation energy

Increasing activation energy

- 3. \* Decreasing pH value
- 4. \* Increasing the pH value

Question Number : 79 Question Id : 97103627293 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Ramachandran plot can be used to predict the following structure

#### **Options:**

Time: 0

- 1. \* Quaternary structure
- 2. \* Tertiary structure
- 3. \* Primary structure
- 4. Secondary structure

Question Number : 80 Question Id : 97103627294 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

#### Time: 0

The structure of DNA is closely related to its biological function. Which of the following statements regarding the structure of DNA is correct?

#### **Options:**

All base pairs interact by forming three hydrogen bonds

DNA is comprised of nucleotide subunits each containing a base, a ribose sugar and a phosphate group.

The double helix of DNA is stabilized by interactions between adjacent ribose sugars.

Each DNA sequence folds into a unique and complex three-dimensional structure.

Question Number: 81 Question Id: 97103627295 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The melting temperature of DNA (Tm) is higher when the content of Options:

1 \* A: T base pairs is higher

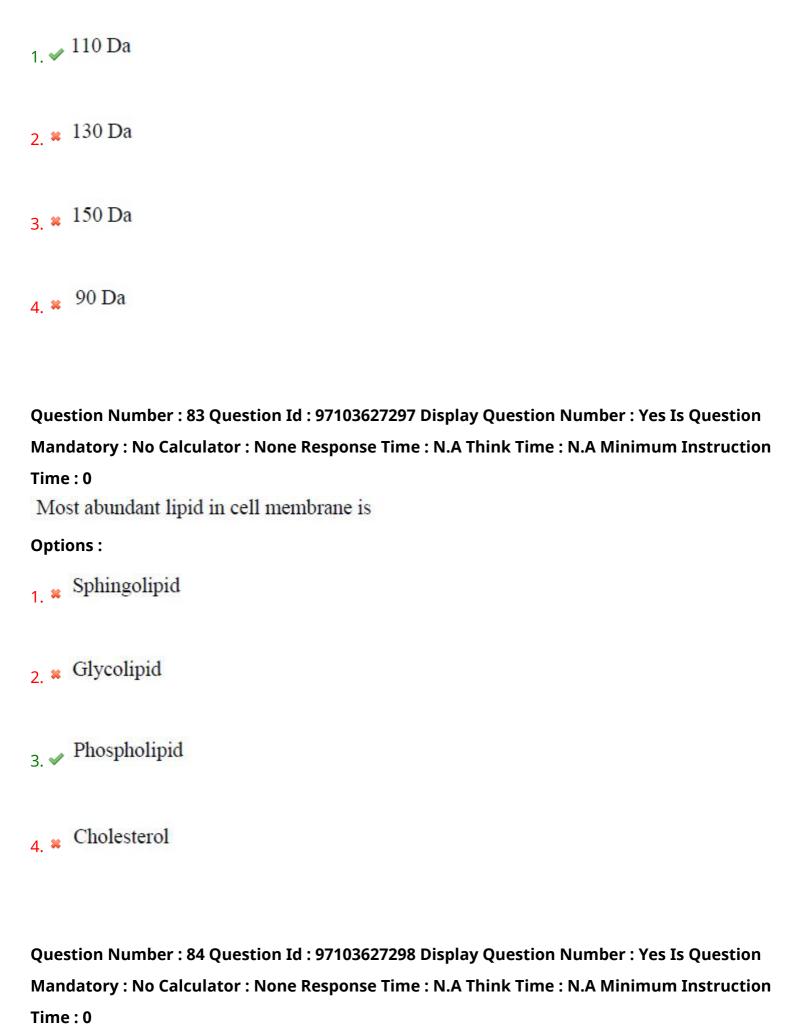
G: C base pairs is higher

3. \* G: C base pairs is lower

A: T base pairs is same as G:C base pairs

Question Number : 82 Question Id : 97103627296 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 average molecular weight of an amino acid residue in a protein?



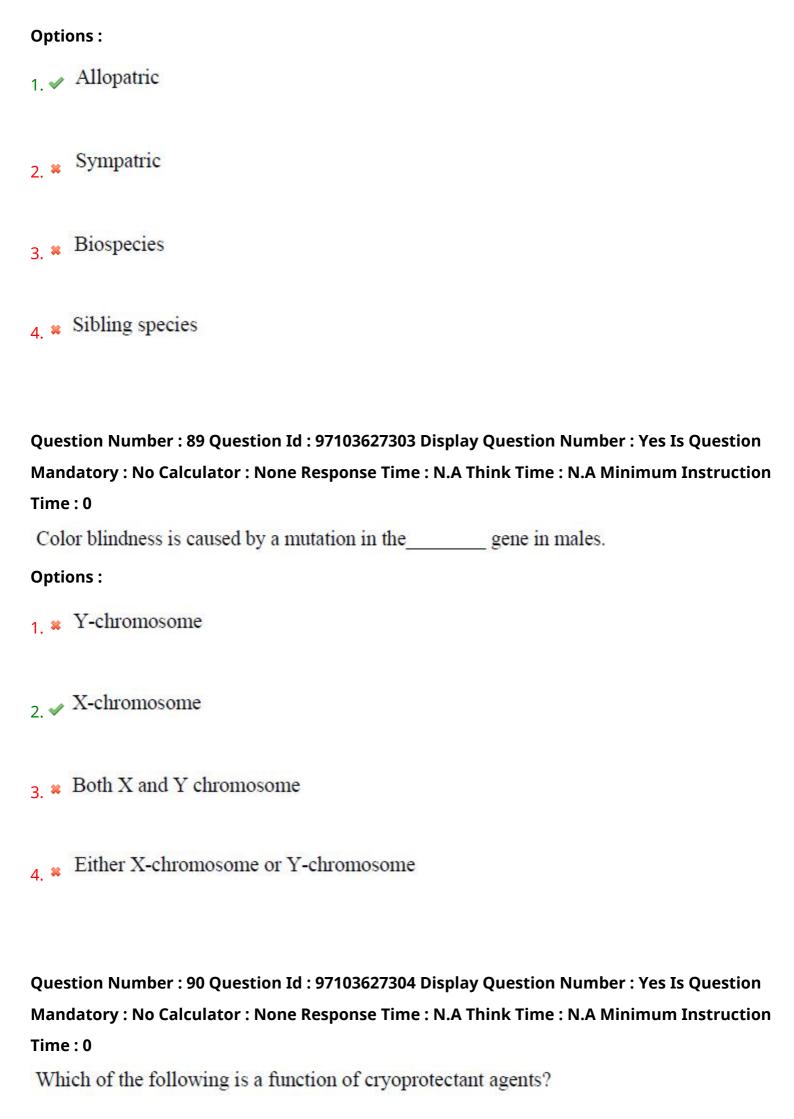
All are plant derived alkaloids except

Options:
1. Menthol
2. * Nicotine
3. * Quinine
4. * Morphine
Question Number : 85 Question Id : 97103627299 Display Question Number : Yes Is Question
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction
Time: 0
The golgi bodies are absent in
Options:
1. * Higher plants
2.  ✓ Blue green algae
3. * Yeast
4. * Liver cells
Question Number : 86 Question Id : 97103627300 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Histone protein synthesis takes place in \_\_\_\_\_.

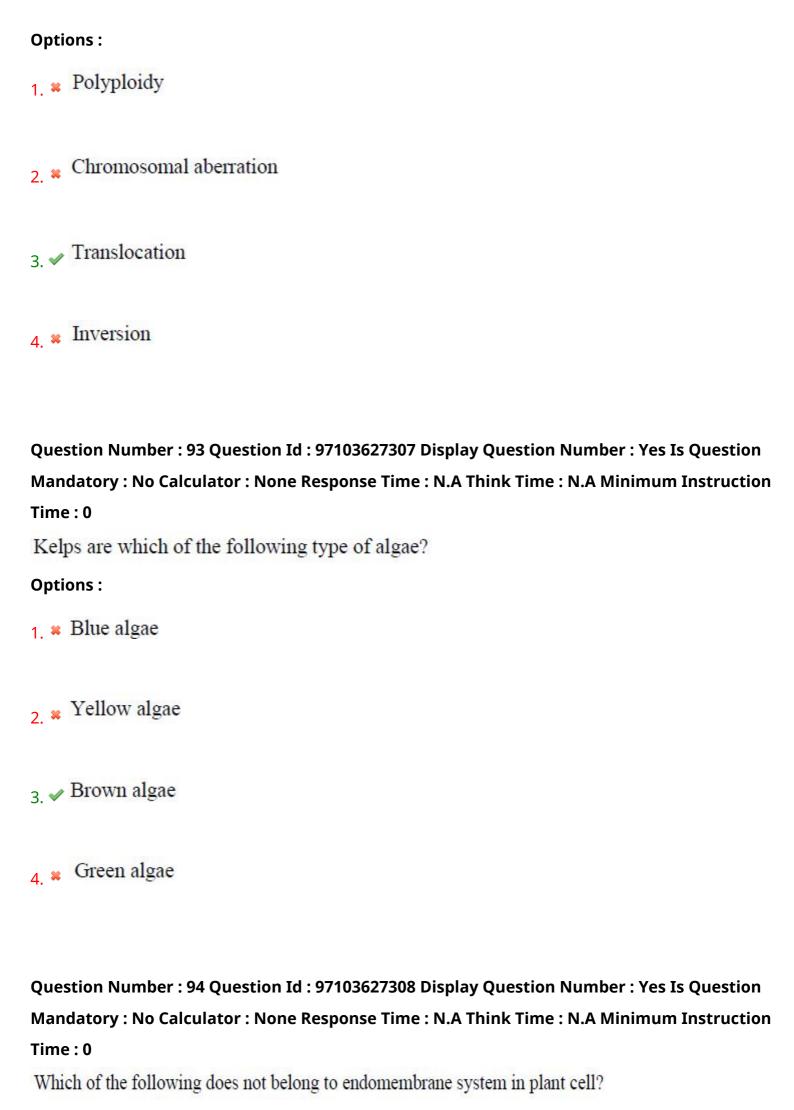
1. ✓ S Phase
2. * G2 Phase
3. * G1 Phase
4. * M Phase
Question Number : 87 Question Id : 97103627301 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
Microtubules are composed of
Options :
1. * Actin
2. V Tubulin
3. * Myosin
4. * Niacin
Question Number : 88 Question Id : 97103627302 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0

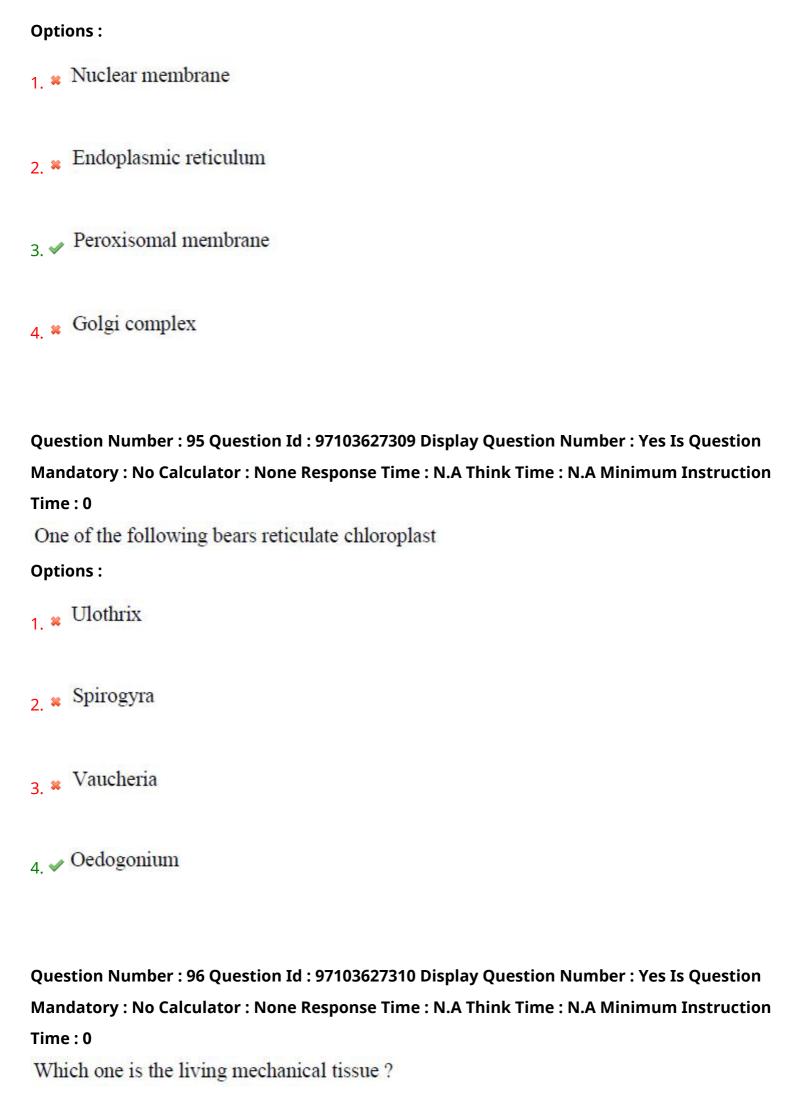
A species inhabiting different geographical areas is known as

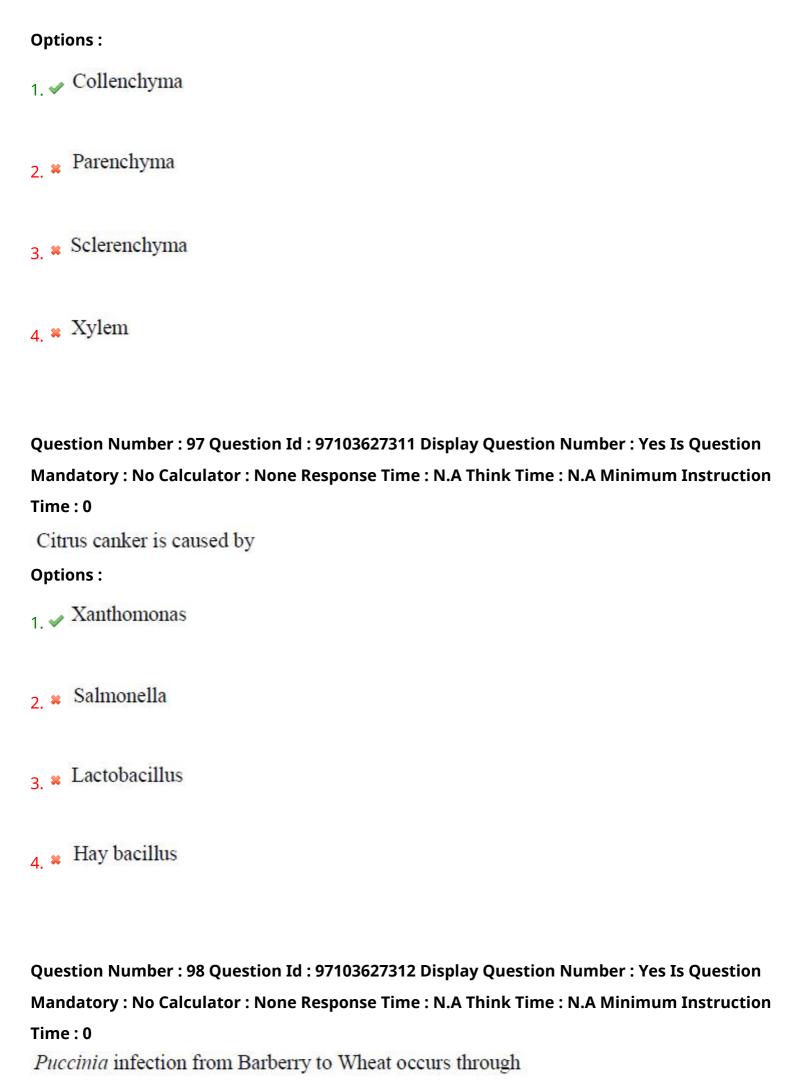


1. * For short-term preservation of cultures
2. * Increases ice crystal formation
3. Prevents ice crystal formation
4. * To trap the liquid nitrogen
Question Number : 91 Question Id : 97103627305 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
A species which has a large impact on the ecosystem relative to its population is called
Options:
1. * Indicator species
2. * Generalist species
3. * Endemic species
4. ✓ Keystone species
Question Number : 92 Question Id : 97103627306 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0

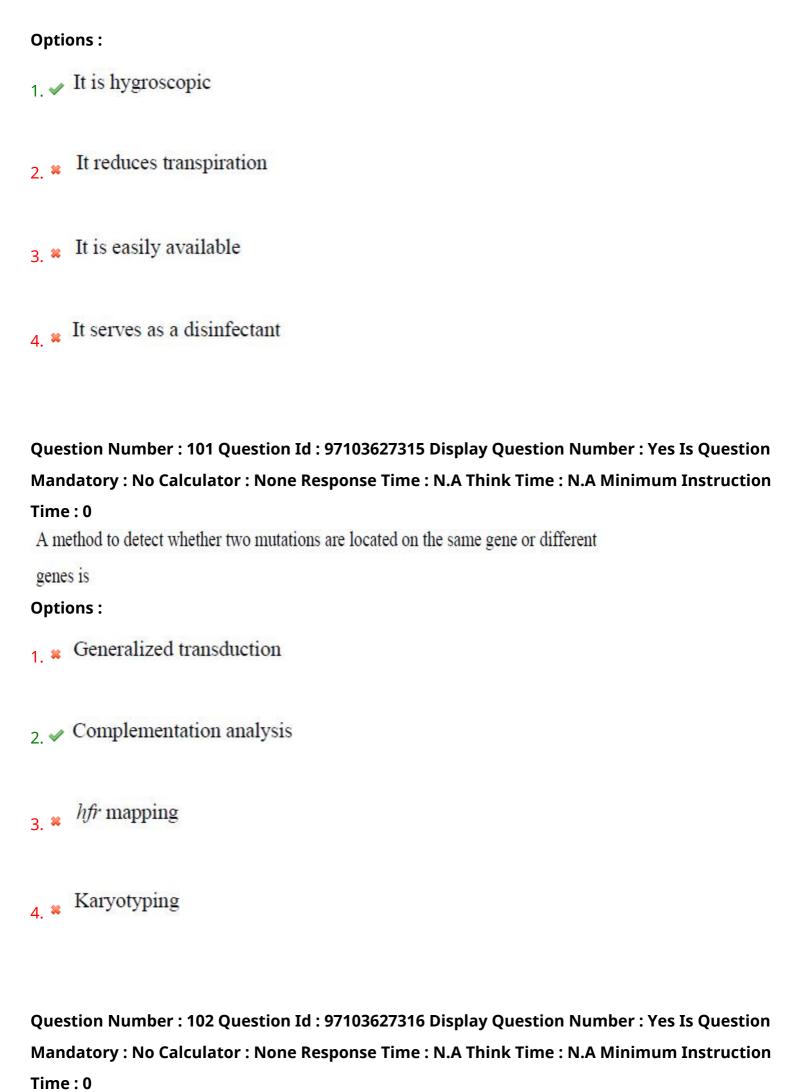
An exchange of segments between the two non-homologous chromosomes is called

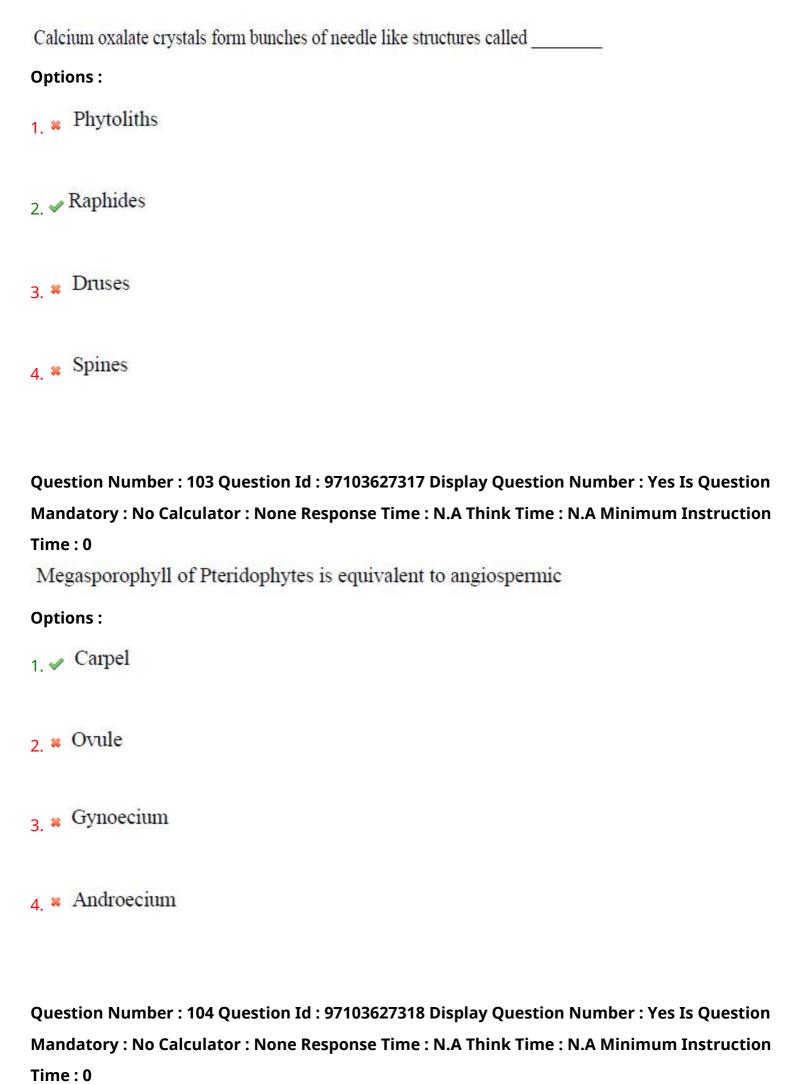






Options :
1. * Teleutospores
2. * Uredospores
3. Aeciospores
4. * Pycnospores
Question Number: 99 Question Id: 97102627212 Display Question Number: Ves Is Question
Question Number: 99 Question Id: 97103627313 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction
Time: 0
Pseudoelators are found in
Options:
1. * Riccia
2. Anthoceras
3. * Moss
4. * Marchantia
Question Number : 100 Question Id : 97103627314 Display Question Number : Yes Is Question
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction
Time: 0
Peat moss is used for transporting plants to distant places because
productive and representative transfer and the second of t





1. * Immigration
2. * Emigration
3. Limited resources
4. * Unlimited resources
Question Number: 105 Question Id: 97103627319 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0  The area of the coastal zone affected by waves is called
Options :
1. * Intertidal zone
2. Littoral zone
3. * Pelagic zone
4. * Benthic zone
Question Number : 106 Question Id : 97103627320 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

The carrying capacity of a population is determined by its

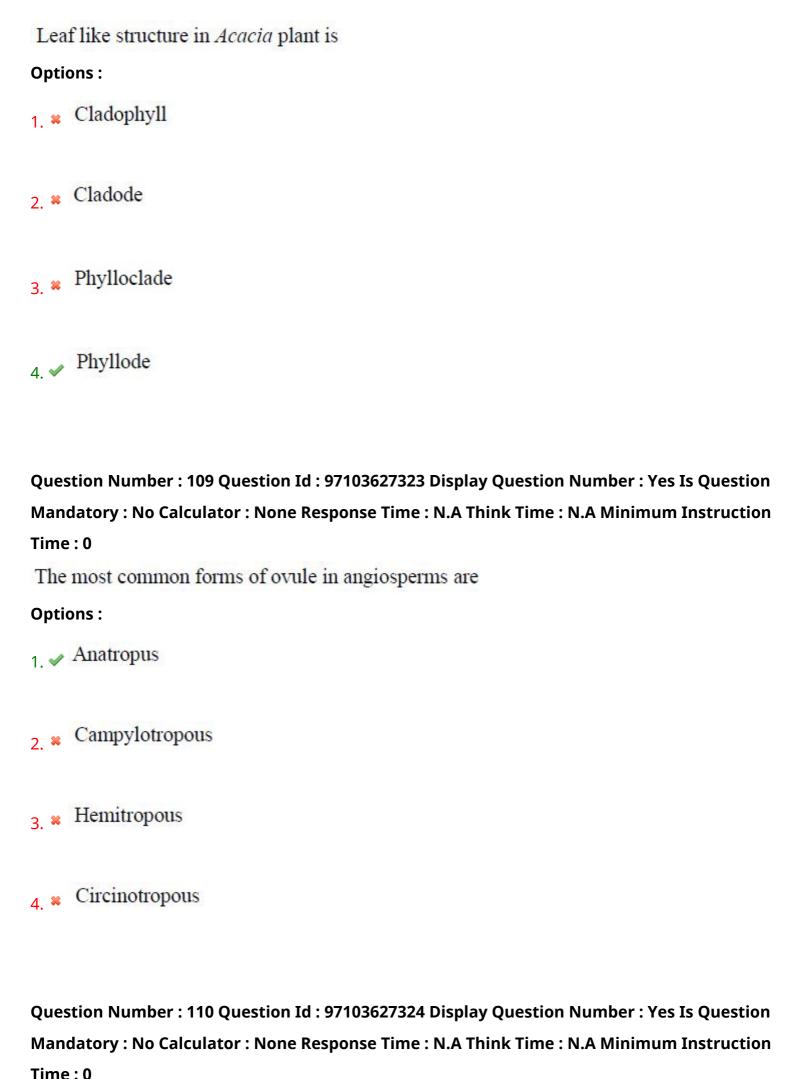
Options :

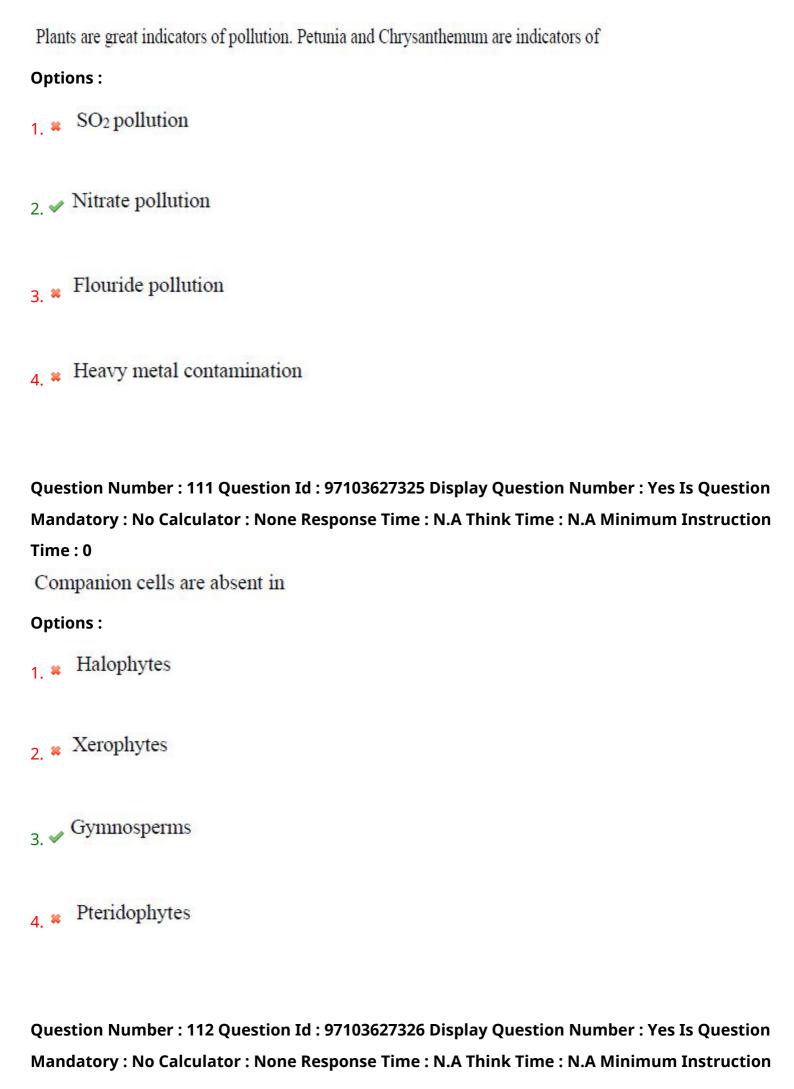
Time: 0

# Cinnamon belongs to family **Options:** 1. \* Anacardiaceae 2. Poaceae 3. \* Rosaceae 4. Lauraceae Question Number: 107 Question Id: 97103627321 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Each individual replicating unit on the DNA is known as **Options:** 1. \* Replisome 2. Replicon 3. \* Pre initiation complex 4. \* Open reading fame Question Number: 108 Question Id: 97103627322 Display Question Number: Yes Is Question

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

Time: 0





#### Time: 0

Plant cooling occurs due to

#### **Options:**

- 1 Transpiration
- 2. \* Guttation
- 3. \* Photorespiration
- 4. \* Assimilation

Question Number: 113 Question Id: 97103627327 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Match the following.

- A Cytokinin
- (i) Ethylene
- B Bolting hormone (ii) Zeatin
- C Synthetic hormone (iii) Gibberellic acid
- D Stress hormone
- (iv) NAA
- E Ageing in plants (v) Abscisic acid

2. 
$$\times$$
 A - (iv), B - (ii), C - (iii), D -(i), E - (v)

3. 
$$\checkmark$$
 A - (ii), B - (iii), C - (iv), D -(v), E - (i)

4.  $\times$  A - (iii), B - (ii), C - (iv), D -(v), E - (i)

Question Number: 114 Question Id: 97103627328 Display Question Number: Yes Is Question

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

Time: 0

Ultraviolet radiation from sunlight cause a reaction producing

#### **Options:**

- Carbon monoxide
- 2. Ozone
- 3. \* Fluorides
- 4. Sulphur dioxide

Question Number: 115 Question Id: 97103627329 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Minerals absorbed by roots move upward to the leaves through

- 1. Xylem
- 2. Phloem
- 3. \* Sieve tube

4. \* Companion cell

Question Number : 116 Question Id : 97103627330 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0

Which is the largest cell of the embryo sac?

#### **Options:**

- 1. Chalazal cells
- 2. Micropylar cells
- 3. \* Synergids
- 4. Central cell

Question Number: 117 Question Id: 97103627331 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

The entry of pollen tube through the micropyle is known as

- 1. Porogamy
- 2. Chalazogamy
- 3. \* Mesogamy

4. \* Psuedogamy

Question Number: 118 Question Id: 97103627332 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Leaf having stomata equally distributed on both the leaf surface of

### Options:

- 1. Triticum aestivum
- 2. \* Tobacco sp.
- 3. \* Hibiscus sp.
- 4. \* Solanum tuberosum

Question Number: 119 Question Id: 97103627333 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

In operon model, RNA polymerase binds to

- 1. \* Structural gene
- 2. Promoter
- 3. \* Regulator

4. W Operator

Question Number: 120 Question Id: 97103627334 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

During DNA Replication, the term leading strand is applied to the one which replicates in

#### **Options:**

5' - 3' direction discontinuously

2 × 3'-5' direction continuously

 $3 \checkmark 5' - 3'$  direction continuously

3'-5' direction discontinuously

Question Number: 121 Question Id: 97103627335 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time:0

The non-sense codons helps in

#### **Options:**

1. \* Termination of anticodons

2. \* Formation of long polypeptide chain

- 3. \* Inhibition of toxic proteins
- Termination of polypeptide chain

Question Number: 122 Question Id: 97103627336 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The T-DNA present in *Agrobacterium tumifaciens* is transferred and integrated into the genome of plant cells by

#### **Options:**

- 1. \* nif genes
- 2. \* nod genes
- 3. ✓ vir genes
- 4. \* cry genes

Question Number: 123 Question Id: 97103627337 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Cybrids are produced by

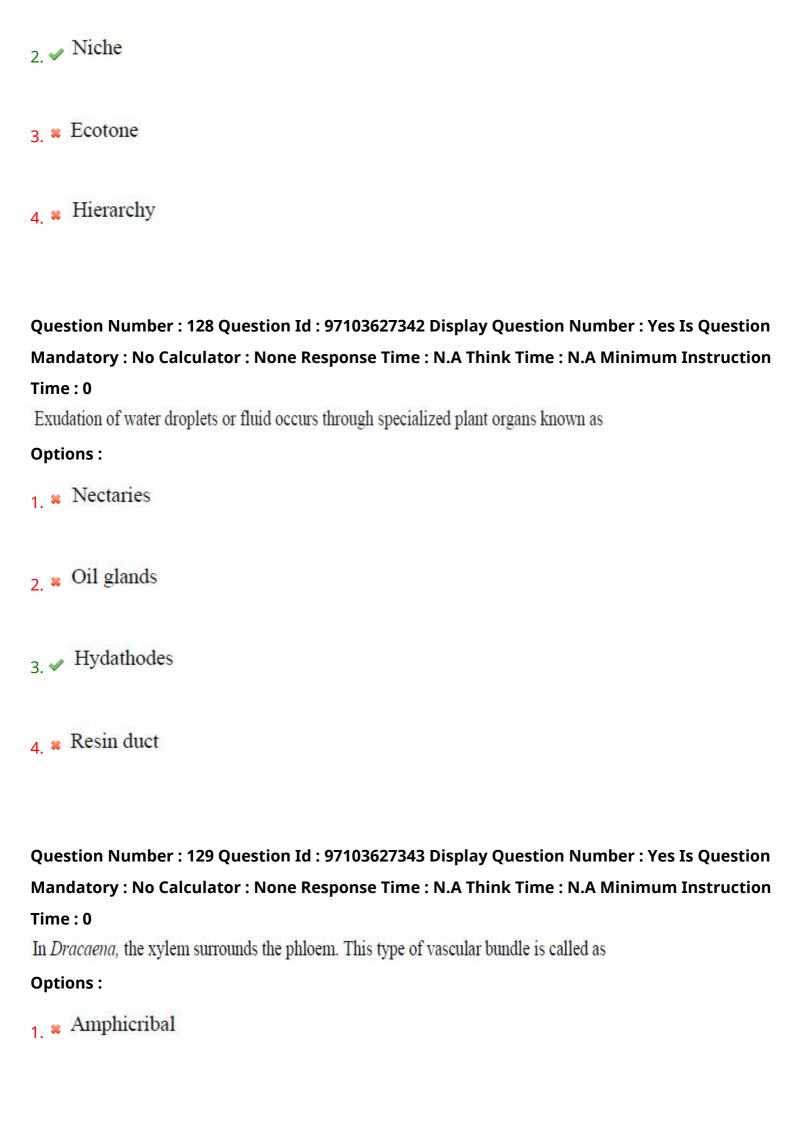
#### **Options:**

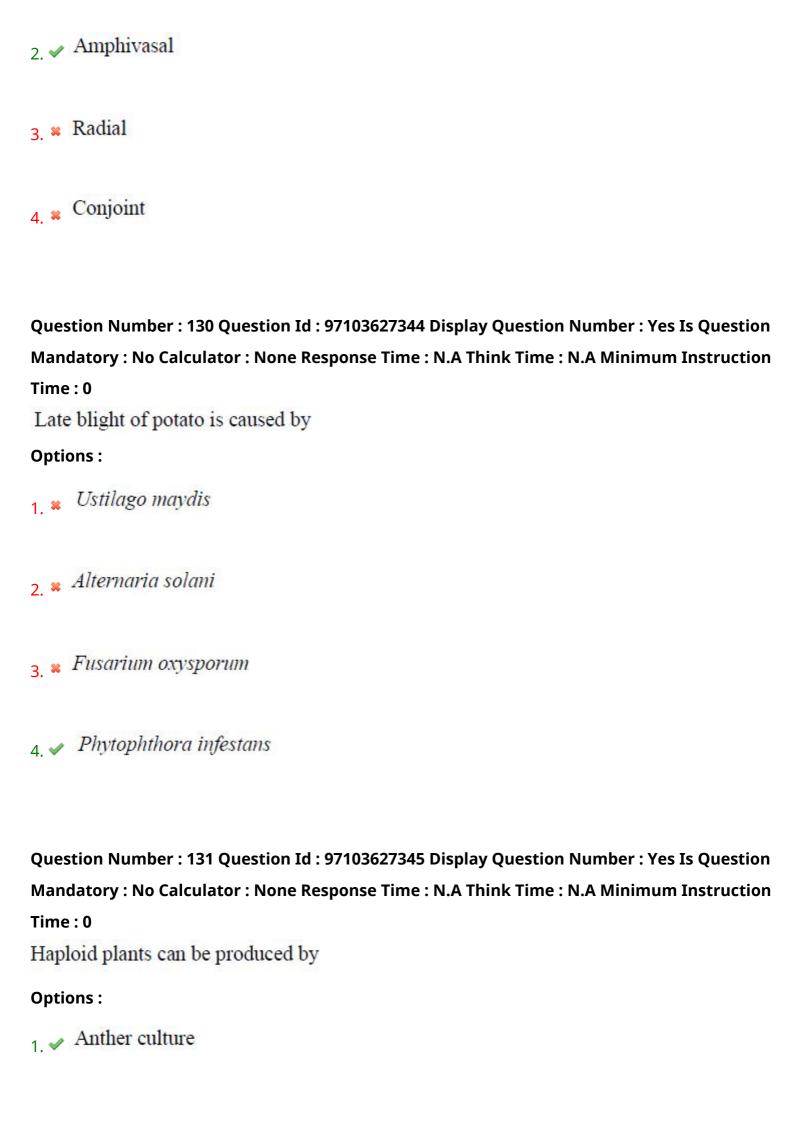
The nucleus of one species but cytoplasm from both the parent species

The fusion of two same nuclei from the same species The fusion of two different nuclei from different species The fusion of three different nuclei from same species Question Number: 124 Question Id: 97103627338 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Root pressure develops due to **Options:** Low osmotic pressure in soil Decrease in transpiration 3. Active absorption 4. \* Passive absorption Question Number: 125 Question Id: 97103627339 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 The function of heart wood in stem? **Options:** Mechanical support

2. \* Conduction of water 3. \* Transport of minerals Transport of food material Question Number: 126 Question Id: 97103627340 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Persistent calyx is found in the members of **Options:** 1. \* Euphorbiaceae 2. \* Malvaceae 3. 

✓ Solanaceae 4. \* Lamiaceae Question Number: 127 Question Id: 97103627341 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 The term which denotes the specific position of a species in a community is **Options:** Ecotype





2. \* Meristem culture 3. \* Bud culture 4. Embryo culture Question Number: 132 Question Id: 97103627346 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 refers to the uptake of naked DNA into bacteria from the surrounding environment? **Options:** 1. Conjugation 2. \* Generalized transduction 3. \* Specialized transduction 4. Transformation Question Number: 133 Question Id: 97103627347 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 DEAE-cellulose column is used for **Options:** Gel-filtration chromatography

2. ✓ Ion exchange chromatography
3. * Affinity chromatography
4. * HPLC
Question Number : 134 Question Id : 97103627348 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
Polymorphism in RAPD is observed because
Options :
1. * DNA used is from different chromosomes of same species
2. * DNA used is from same chromosomes of same species
3. ✓ DNA used is from different chromosomes of different species
4. * DNA used is from complementary chromosomes of same species
Question Number : 135 Question Id : 97103627349 Display Question Number : Yes Is Question
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction
Time: 0
Electron Spin Resonance Spectroscopy usesradiation.
Options:
1. * Visible

2. ✓ Microwave
3. * Radio wave
4. * UV
Question Number: 136 Question Id: 97103627350 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0  The following vectors are useful for generation of genomic DNA libraries
Options:  1. ✓ YACs and BACs
2. ** Plasmid vectors
3. * Binary vectors
4. * Integrated vectors
Question Number : 137 Question Id : 97103627351 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0  Resolving power of a microscope is a function of  Options :

