



Question Paper Name: AGRICULTURAL 30th May 2019 Shift2 Set1
Subject Name: AGRICULTURAL
Creation Date: 2019-05-30 19:01:11
Duration: 180
Total Marks: 100
Display Marks: Yes
Share Answer Key With Delivery Engine: Yes
Actual Answer Key: Yes

AGRICULTURAL

Group Number : 1
Group Id : 128206222
Group Maximum Duration : 0
Group Minimum Duration : 120
Revisit allowed for view? : No
Revisit allowed for edit? : No
Break time: 0
Group Marks: 100

Part - A

Section Id : 128206372
Section Number : 1
Section type : online
Mandatory or Optional: Mandatory
Number of Questions: 30
Number of Questions to be attempted: 30
Section Marks: 30
Display Number Panel: Yes
Group All Questions: No

Sub-Section Number: 1
Sub-Section Id: 128206621
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 12820613005 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Find the order of the reaction, if the rate of a gaseous reaction is halved when the volume of the vessel is doubled.

- (a) 1
- (b) 2
- (c) 0
- (d) 3

12820651296. B
12820651297. C
12820651298. D

Question Number : 2 Question Id : 12820613006 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The correct statement with respect to the complexes Ni(CO)_4 and $[\text{Ni(CN)}_4]^{2-}$ is

- (a) Nickel is in the same oxidation state
- (b) both have tetrahedral geometries
- (c) both have square planar geometries
- (d) have Tetrahedral and Square planar geometry respectively

Options :

12820651299. A
12820651300. B
12820651301. C
12820651302. D

Question Number : 3 Question Id : 12820613007 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

For which of the following process is the entropy change zero?

- (a) Isobaric
- (b) Isothermal
- (c) Adiabatic
- (d) Constant volume

Options :

12820651303. A
12820651304. B
12820651305. C
12820651306. D

Question Number : 4 Question Id : 12820613008 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Tartaric acid contains two stereogenic centres. How many stereoisomers are possible?

- (a) 2
- (b) 8
- (c) 4
- (d) 3

Options :

12820651307. A
12820651308. B
12820651309. C

Question Number : 5 Question Id : 12820613009 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is more stable cation?

- (a) Secondary butyl cation
- (b) Tertiary Butyl cation
- (c) n-butyl cation
- (d) Methyl cation

Options :

12820651311. A

12820651312. B

12820651313. C

12820651314. D

Question Number : 6 Question Id : 12820613010 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is a uncharged particle

- (a) atom
- (b) neutrino
- (c) proton
- (d) electron

Options :

12820651315. A

12820651316. B

12820651317. C

12820651318. D

Question Number : 7 Question Id : 12820613011 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Free radicals are produced by

- (a) homolytic cleavage
- (b) heterolytic cleavage
- (c) enzymatic cleavage
- (d) oxidative cleavage

Options :

12820651319. A

12820651320. B

12820651321. C

12820651322. D

Question Number : 8 Question Id : 12820613012 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

- (a) pyran
- (b) cyclohexane
- (c) benzene
- (d) salicylic acid

Options :

- 12820651323. A
- 12820651324. B
- 12820651325. C
- 12820651326. D

Question Number : 9 Question Id : 12820613013 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Ozone is

- (a) non-magnetic
- (b) para magnetic
- (c) ferro magnetic
- (d) diamagnetic

Options :

- 12820651327. A
- 12820651328. B
- 12820651329. C
- 12820651330. D

Question Number : 10 Question Id : 12820613014 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Solve the following pair of equations:

$$\begin{aligned} 2x - y &= 0 \\ 3x + y &= 40 \end{aligned}$$

- (a) $x = 0, y = 0$
- (b) $x = 8, y = -16$
- (c) $x = 8, y = 16$
- (d) $x = -8, y = -16$

Options :

- 12820651331. A
- 12820651332. B
- 12820651333. C
- 12820651334. D

Question Number : 11 Question Id : 12820613015 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

- (a) 22 sq. units
- (b) 24 sq. units
- (c) 26 sq. units
- (d) 32 sq. units

Options :

- 12820651335. A
- 12820651336. B
- 12820651337. C
- 12820651338. D

Question Number : 12 Question Id : 12820613016 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The function $y = x^2 + 5$ is a solution of which of the following differential equations?

- (a) $\frac{d^2y}{dx^2} - x \frac{dy}{dx} = 0$
- (b) $x \frac{d^2y}{dx^2} + \frac{dy}{dx} = 0$
- (c) $x \frac{d^2y}{dx^2} - \frac{dy}{dx} = 0$
- (d) $\frac{d^2y}{dx^2} + x \frac{dy}{dx} = 0$

Options :

- 12820651339. A
- 12820651340. B
- 12820651341. C
- 12820651342. D

Question Number : 13 Question Id : 12820613017 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The polynomial $x^2 - x - 12$ cuts the x-axis at

- (a) $x = 0, 0$.
- (b) $x = 3, 4$.
- (c) $x = -3, 4$.
- (d) $x = 3, -4$.

Options :

- 12820651343. A
- 12820651344. B
- 12820651345. C
- 12820651346. D

Question Number : 14 Question Id : 12820613018 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0



- (a) 10 sq. units
- (b) 12 sq. units
- (c) 16 sq. units
- (d) 20 sq. units

Options :

- 12820651347. A
- 12820651348. B
- 12820651349. C
- 12820651350. D

Question Number : 15 Question Id : 12820613019 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Consider a right triangle ABC right angled at B. If $\tan A = 1$, then which of the following is true?

- (a) $\angle BAC = 45^\circ$
- (b) $\angle ACB = 30^\circ$
- (c) $\angle BAC = 60^\circ$
- (d) $\angle ACB = 60^\circ$

Options :

- 12820651351. A
- 12820651352. B
- 12820651353. C
- 12820651354. D

Question Number : 16 Question Id : 12820613020 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The biggest family of angiosperm is

- (a) *Asteraceae*
- (b) *Poaceae*
- (c) *Brassicaceae*
- (d) *Fabaceae*

Options :

- 12820651355. A
- 12820651356. B
- 12820651357. C

Question Number : 17 Question Id : 12820613021 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Balanoglossis is an example of

- (a) Chordate
- (b) Hemi-Chordate
- (c) Non-Chordate
- (d) Insects

Options :

12820651359. A

12820651360. B

12820651361. C

12820651362. D

Question Number : 18 Question Id : 12820613022 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which is not a protozoan

- (a) Trypanosoma
- (b) Acanthamoeba
- (c) Entamoeba
- (d) Trichoderma

Options :

12820651363. A

12820651364. B

12820651365. C

12820651366. D

Question Number : 19 Question Id : 12820613023 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The cell organelle involved in packaging and transport of cellular proteins is

- (a) nucleus
- (b) mitochondria
- (c) chloroplast
- (d) Golgi apparatus

Options :

12820651367. A

12820651368. B

12820651369. C

12820651370. D

Question Number : 20 Question Id : 12820613024 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

A simple intra cellular signalling pathway is activated by

- (a) extra-cellular molecule
- (b) effector protein molecule
- (c) plasma membrane
- (d) metabolic enzymes

Options :

- 12820651371. A
- 12820651372. B
- 12820651373. C
- 12820651374. D

Question Number : 21 Question Id : 12820613025 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The proton gradient serves as an energy store that can be used to drive

- (a) ATP break-down
- (b) water break-down
- (c) synthesis of protein
- (d) ATP synthesis

Options :

- 12820651375. A
- 12820651376. B
- 12820651377. C
- 12820651378. D

Question Number : 22 Question Id : 12820613026 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following is the weakest interaction in terms of energy out of the following four interactions

- (a) Hydrogen bonding
- (b) Van-der Waals interaction
- (c) Electrostatic interaction
- (d) Hydrophobic interaction

Options :

- 12820651379. A
- 12820651380. B
- 12820651381. C
- 12820651382. D

Question Number : 23 Question Id : 12820613027 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

It to throw a ball to a height of 20 m from the ground. With what speed it should be thrown vertically? (use $g = 10 \text{ m/s}^2$)

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- (a) 10 m/s
- (b) 20 m/s
- (c) 30 m/s
- (d) 40 m/s

Options :

12820651383. A

12820651384. B

12820651385. C

12820651386. D

Question Number : 24 Question Id : 12820613028 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Who proposed the elliptical orbit of earth around sun.

- (a) Kepler
- (b) Faraday
- (c) Galileo
- (d) Einstein

Options :

12820651387. A

12820651388. B

12820651389. C

12820651390. D

Question Number : 25 Question Id : 12820613029 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Name the type of clock which gives accurate time.

- (a) Cesium atom model
- (b) Hydrogen vacuum model
- (c) Gold pleated power chamber model
- (d) Light diffraction model

Options :

12820651391. A

12820651392. B

12820651393. C

12820651394. D

Question Number : 26 Question Id : 12820613030 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- (a) Marie Curie
- (b) Albert Einstein
- (c) J J Thomson
- (d) C V Raman

Options :

- 12820651395. A
- 12820651396. B
- 12820651397. C
- 12820651398. D

Question Number : 27 Question Id : 12820613031 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The slope of the line on a position- time graph is equal to the _____ of the object.

- (a) Velocity
- (b) Acceleration
- (c) Speed
- (d) Distance

Options :

- 12820651399. A
- 12820651400. B
- 12820651401. C
- 12820651402. D

Question Number : 28 Question Id : 12820613032 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

"At constant pressure, the volume of a given mass of gas is directly proportional to its absolute temperature". This law is called

- (a) Charles law
- (b) Boyles law
- (c) Ideal gas law
- (d) Boyers law

Options :

- 12820651403. A
- 12820651404. B
- 12820651405. C
- 12820651406. D

Question Number : 29 Question Id : 12820613033 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- (a) LED
- (b) Transformers
- (c) Photodiode
- (d) Tube light

Options :

- 12820651407. A
- 12820651408. B
- 12820651409. C
- 12820651410. D

Question Number : 30 Question Id : 12820613034 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Cryogenic engines find application in

- (a) Frost free refrigerators
- (b) Submarine propulsion
- (c) Rocket technology
- (d) Researches in superconductivity

Options :

- 12820651411. A
- 12820651412. B
- 12820651413. C
- 12820651414. D

Part - B

Section Id :	128206373
Section Number :	2
Section type :	Online
Mandatory or Optional:	Mandatory
Number of Questions:	100
Number of Questions to be attempted:	70
Section Marks:	70
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	128206622
Question Shuffling Allowed :	Yes

Question Number : 31 Question Id : 12820613035 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Most extensive soil type found in India is _____ soil
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- (a) Black
- (b) Red
- (c) Alluvial
- (d) Laterite

Options :

- 12820651415. A
- 12820651416. B
- 12820651417. C
- 12820651418. D

Question Number : 32 Question Id : 12820613036 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The simplest and inexpensive method for estimating evapotranspiration is

- (a) Lysimeter
- (b) Pan evaporimeter
- (c) Radiation
- (d) Blaney-Criddle

Options :

- 12820651419. A
- 12820651420. B
- 12820651421. C
- 12820651422. D

Question Number : 33 Question Id : 12820613037 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The water requirement of Maize is

- (a) 250 mm
- (b) 500 mm
- (c) 1000 mm
- (d) 900 mm

Options :

- 12820651423. A
- 12820651424. B
- 12820651425. C
- 12820651426. D

Question Number : 34 Question Id : 12820613038 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- clear centimeter is
- (a) 1,000 litre
 - (b) 10,000 litres
 - (c) 1,00,000 litres
 - (d) 10,00,000 litres

Options :

- 12820651427. A
- 12820651428. B
- 12820651429. C
- 12820651430. D

Question Number : 35 Question Id : 12820613039 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

White muscardine entomopathogenic fungus is

- (a) *Beauveria bassiana*
- (b) *Metarhizium anisopliae*
- (c) *Verticillium lecanii*
- (d) *Hirsutella thomsoni*

Options :

- 12820651431. A
- 12820651432. B
- 12820651433. C
- 12820651434. D

Question Number : 36 Question Id : 12820613040 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Quantity of liquid insecticide with 25% active ingredient to spray 0.25% concentration using 500 litre of spray fluid is

- (a) 1.25 litre
- (b) 2.50 litre
- (c) 5.00 litre
- (d) 10.00 litre

Options :

- 12820651435. A
- 12820651436. B
- 12820651437. C
- 12820651438. D

Question Number : 37 Question Id : 12820613041 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

ty of phosphine expected from 3 gram aluminium phosphide is

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- (a) 1 gram
- (b) 2 gram
- (c) 3 gram
- (d) 4 gram

Options :

12820651439. A

12820651440. B

12820651441. C

12820651442. D

Question Number : 38 Question Id : 12820613042 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Two celled dark colored conidia are found in

- (a) *Cladosporium*
- (b) *Cylindrocladium*
- (c) *Pyricularia*
- (d) *Rhynchosporium*

Options :

12820651443. A

12820651444. B

12820651445. C

12820651446. D

Question Number : 39 Question Id : 12820613043 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The toxin produced by the fungus *Bipolaris oryzae* is

- (a) Ophiobolin
- (b) Picolinic acid
- (c) Alternaric acid
- (d) Fusaric acid

Options :

12820651447. A

12820651448. B

12820651449. C

12820651450. D

Question Number : 40 Question Id : 12820613044 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

of the following is NOT one of the Koch's postulates ?

- (a) The organism is regularly found in every case of the disease
- (b) The organism can be isolated from diseased tissue in pure culture on artificial medium
- (c) Inoculation of this pure culture produces disease in experimental plants
- (d) Treatment of the disease with broad spectrum antimicrobial agent dependably eradicates the organism and cures the disease

Options :

- 12820651451. A
- 12820651452. B
- 12820651453. C
- 12820651454. D

Question Number : 41 Question Id : 12820613045 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Acid rain contains mainly

- (a) PO_4
- (b) NO_2
- (c) NH_3
- (d) CH_4

Options :

- 12820651455. A
- 12820651456. B
- 12820651457. C
- 12820651458. D

Question Number : 42 Question Id : 12820613046 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The interaction between two species favourable to both but not obligatory

- (a) Mutualism
- (b) Commensalism
- (c) Protocooperation
- (d) Neutralism

Options :

- 12820651459. A
- 12820651460. B
- 12820651461. C
- 12820651462. D

Question Number : 43 Question Id : 12820613047 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

ena protocol deals with

- (a) Biodiversity
- (b) Hazardous waste handling
- (c) Bio-safety
- (d) Wetland conservation

Options :

- 12820651463. A
- 12820651464. B
- 12820651465. C
- 12820651466. D

Question Number : 44 Question Id : 12820613048 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Pungency in radish is due to

- (a) Solanin
- (b) Capcisin
- (c) Isothiocyanate
- (d) Calcium acetate

Options :

- 12820651467. A
- 12820651468. B
- 12820651469. C
- 12820651470. D

Question Number : 45 Question Id : 12820613049 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following crop is an amphidiploid?

- (a) Tomato
- (b) Bhendi
- (c) Chilli
- (d) Brinjal

Options :

- 12820651471. A
- 12820651472. B
- 12820651473. C
- 12820651474. D

Question Number : 46 Question Id : 12820613050 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- styly favours
- (a) Cross pollination
 - (b) Self pollination
 - (c) Sterility
 - (d) Protogyne

Options :

- 12820651475. A
- 12820651476. B
- 12820651477. C
- 12820651478. D

Question Number : 47 Question Id : 12820613051 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Banana fruit is classified in the category of

- (a) Drupes
- (b) Pomes
- (c) Berries
- (d) Nuts

Options :

- 12820651479. A
- 12820651480. B
- 12820651481. C
- 12820651482. D

Question Number : 48 Question Id : 12820613052 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which type of oil palm is widely cultivated in India?

- (a) Dura
- (b) Pisifera
- (c) Tenera
- (d) Dybowskii

Options :

- 12820651483. A
- 12820651484. B
- 12820651485. C
- 12820651486. D

Question Number : 49 Question Id : 12820613053 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- (a) 1-9%
(b) 10-19%
(c) 20-29%
(d) 30-40%

Options :

12820651487. A
12820651488. B
12820651489. C
12820651490. D

Question Number : 50 Question Id : 12820613054 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Site index is a term used by foresters to explain the relationship of _____ in forest stands.

- (a) height to age
(b) diameter to age
(c) diameter to height
(d) volume to age

Options :

12820651491. A
12820651492. B
12820651493. C
12820651494. D

Question Number : 51 Question Id : 12820613055 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Girdling is a method used to

- (a) Removal of a strip of bark around the entire circumference of a tree
(b) Harvest mature trees
(c) Properly space veneer quality trees
(d) Produce knot free lumber

Options :

12820651495. A
12820651496. B
12820651497. C
12820651498. D

Question Number : 52 Question Id : 12820613056 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- (a) Soil is wet and the air is dry
- (b) Both soil and air are dry
- (c) Soil is wet and the air is humid
- (d) Soil is dry and the air is humid

Options :

- 12820651499. A
- 12820651500. B
- 12820651501. C
- 12820651502. D

Question Number : 53 Question Id : 12820613057 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Substrate level phosphorylation occurs during

- (a) Light reaction
- (b) Photorespiration
- (c) Gas exchange
- (d) Glycolysis

Options :

- 12820651503. A
- 12820651504. B
- 12820651505. C
- 12820651506. D

Question Number : 54 Question Id : 12820613058 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following is NOT an antigibberellin?

- (a) Phosphon D
- (b) AMO 1618
- (c) Maleic Hydrazide
- (d) Triiodobenzoic acid

Options :

- 12820651507. A
- 12820651508. B
- 12820651509. C
- 12820651510. D

Question Number : 55 Question Id : 12820613059 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Molecular formulae of chlorophyll a and b respectively are

- (a) $C_{55}H_{70}O_6N_4Mg$ & $C_{55}H_{72}O_5N_4Mg$
- (b) $C_{55}H_{72}O_5N_4Mg$ & $C_{55}H_{70}O_6N_4Mg$
- (c) $C_{40}H_{56}$ & $C_{40}H_{56}O_2$
- (d) $C_{40}H_{56}O_2$ & $C_{40}H_{56}$

Options :

- 12820651511. A
- 12820651512. B
- 12820651513. C
- 12820651514. D

Question Number : 56 Question Id : 12820613060 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which element is metal component of urease enzyme?

- (a) Sodium
- (b) Nickel
- (c) Silicon
- (d) Molybdenum

Options :

- 12820651515. A
- 12820651516. B
- 12820651517. C
- 12820651518. D

Question Number : 57 Question Id : 12820613061 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following soil type has the highest field capacity?

- (a) Loam
- (b) Silty loam
- (c) Clayey loam
- (d) Clay

Options :

- 12820651519. A
- 12820651520. B
- 12820651521. C
- 12820651522. D

Question Number : 58 Question Id : 12820613062 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- formed due to the dominant effect of parent materials are called as
- (a) Ectodynamomorphitic
 - (b) Endodynamomorphitic
 - (c) Hydrodynamomorphitic
 - (d) Holomorphitic

Options :

- 12820651523. A
- 12820651524. B
- 12820651525. C
- 12820651526. D

Question Number : 59 Question Id : 12820613063 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Soil containing 20-50% of well decomposed organic matter is called

- (a) Organic soil
- (b) Marshy soil
- (c) Muck soil
- (d) Oxisol

Options :

- 12820651527. A
- 12820651528. B
- 12820651529. C
- 12820651530. D

Question Number : 60 Question Id : 12820613064 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Presence of the structure in seed that aids in seed dispersal by ants is

- (a) Caruncle
- (b) Aril
- (c) Hairs
- (d) Elaeiosome

Options :

- 12820651531. A
- 12820651532. B
- 12820651533. C
- 12820651534. D

Question Number : 61 Question Id : 12820613065 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

n distance for a seed crop depends on

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- (a) Flowering behaviour
- (b) Pollination behaviour
- (c) Fertilization capacity
- (d) Receptivity of stigma

Options :

- 12820651535. A
- 12820651536. B
- 12820651537. C
- 12820651538. D

Question Number : 62 Question Id : 12820613066 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The person responsible for quality control in the seed market channel is

- (a) Seed Inspector
- (b) Certification Officer
- (c) Seed Analyst
- (d) Agricultural Officer

Options :

- 12820651539. A
- 12820651540. B
- 12820651541. C
- 12820651542. D

Question Number : 63 Question Id : 12820613067 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The number of independent observations which are free to vary is known as

- (a) Sample size
- (b) Cluster
- (c) Degrees of freedom
- (d) Strata

Options :

- 12820651543. A
- 12820651544. B
- 12820651545. C
- 12820651546. D

Question Number : 64 Question Id : 12820613068 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- of goodness of fit is done by
- (a) F test
 - (b) Z test
 - (c) Student's t-test
 - (d) Chi square test

Options :

- 12820651547. A
- 12820651548. B
- 12820651549. C
- 12820651550. D

Question Number : 65 Question Id : 12820613069 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

How many parameter(s) is/ are there in binomial distribution?

- (a) 1
- (b) 2
- (c) 3
- (d) 4

Options :

- 12820651551. A
- 12820651552. B
- 12820651553. C
- 12820651554. D

Question Number : 66 Question Id : 12820613070 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Among the following four, which divides a set of data into four subsets?

- (a) Percentile
- (b) Decile
- (c) Median
- (d) Quartiles

Options :

- 12820651555. A
- 12820651556. B
- 12820651557. C
- 12820651558. D

Question Number : 67 Question Id : 12820613071 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Foot and mouth disease is a

disease of cattle

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- (a) Parasitic
- (b) Viral
- (c) Bacterial
- (d) Fungal

Options :

- 12820651559. A
- 12820651560. B
- 12820651561. C
- 12820651562. D

Question Number : 68 Question Id : 12820613072 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Gestation period of cattle is

- (a) 280 days
- (b) 380 days
- (c) 305 days
- (d) 250 days

Options :

- 12820651563. A
- 12820651564. B
- 12820651565. C
- 12820651566. D

Question Number : 69 Question Id : 12820613073 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Vitamin C, beta hydroxy acids and vitamin E are

- (a) flavor enhancers
- (b) anti-microbial agents
- (c) antioxidants
- (d) preservatives

Options :

- 12820651567. A

Question Number : 70 Question Id : 12820613074 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Microbial cause of spoilage of honey is due to

- (a) *Zygosaccharomyces*
- (b) *Azotobacter*
- (c) *Fusarium*
- (d) *Candida*

Options :

- 12820651571. A
- 12820651572. B
- 12820651573. C
- 12820651574. D

Question Number : 71 Question Id : 12820613075 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

_____ is a prerequisite for any conventional crop improvement programme

- (a) Evaluation
- (b) Genetic variation
- (c) Selection
- (d) Multiplication

Options :

- 12820651575. A
- 12820651576. B
- 12820651577. C
- 12820651578. D

Question Number : 72 Question Id : 12820613076 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Under monofactorial gametophytic system, the fully compatible mating is

- (a) $S_1 S_2 \times S_3 S_4$
- (b) $S_1 S_2 \times S_1 S_2$
- (c) $S_1 S_2 \times S_2 S_3$
- (d) $S_1 S_3 \times S_2 S_3$

Options :

- 12820651579. A

Question Number : 73 Question Id : 12820613077 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

While measuring the variability, the measure of uncontrolled variation present in a sample is

- (a) Standard deviation
- (b) Standard error
- (c) Coefficient of variation
- (d) Genetic diversity

Options :

- 12820651583. A
- 12820651584. B
- 12820651585. C
- 12820651586. D

Question Number : 74 Question Id : 12820613078 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

One of the following helps plant breeders in selection of suitable parents for hybridization as well as to decide appropriate breeding procedure

- (a) Diallel analysis
- (b) Path analysis
- (c) Correlation coefficient analysis
- (d) Variance

Options :

- 12820651587. A
- 12820651588. B
- 12820651589. C
- 12820651590. D

Question Number : 75 Question Id : 12820613079 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Breeding crops for improved nutritional quality is referred to as

- (a) Bioenrichment
- (b) Biofertilisation
- (c) Bioremediation
- (d) Biofortification

Options :

- 12820651591. A
- 12820651592. B
- 12820651593. C
- 12820651594. D

Correct Marks : 1 Wrong Marks : 0

A random change in gene frequency due to sampling error in a random mating population is

- (a) Migration
- (b) Genetic drift
- (c) Breakdown
- (d) Mutation

Options :

- 12820651595. A
- 12820651596. B
- 12820651597. C
- 12820651598. D

Question Number : 77 Question Id : 12820613081 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Phenotypic assortative mating will lead to

- (a) increase in homozygosity
- (b) increase in heterozygosity
- (c) decrease in hemizyosity
- (d) decrease in homozygosity

Options :

- 12820651599. A
- 12820651600. B
- 12820651601. C
- 12820651602. D

Question Number : 78 Question Id : 12820613082 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Hybrid between dominant pure breeding red flowered plant was crossed to a recessive white flowered plant. The F₁ was back-crossed to pure breeding red flower plant. What will be the flower colour of the progeny of this cross?

- (a) All red flowers
- (b) All white flowers
- (c) 3 red flowers: 1 white flower
- (d) 1 red flower: 1 white flower

Options :

- 12820651603. A
- 12820651604. B

Question Number : 79 Question Id : 12820613083 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

When crossing a recessive strain as female parent and dominant one as male parent, if all the resultant progeny resembles the female parent then this phenomenon is referred as

- (a) Facultative apomixis
- (b) Polyembryomy
- (c) Obligate apomixis
- (d) Dicliny

Options :

12820651607. A

12820651608. B

12820651609. C

12820651610. D

Question Number : 80 Question Id : 12820613084 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If a male sterile line is crossed with heterogeneous male fertile plants and the progeny segregated as 1:1 male fertile and sterile plants, then the male sterility is

- (a) Cytoplasmic male sterility
- (b) Genic male sterility
- (c) Cytoplasmic genic male sterility
- (d) Environment sensitive male sterility

Options :

12820651611. A

12820651612. B

12820651613. C

12820651614. D

Question Number : 81 Question Id : 12820613085 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

During an enzyme catalyzed reaction, the equilibrium constant

- (a) increases
- (b) decreases
- (c) remains unchanged
- (d) can increase or decrease, depending on the enzyme

Options :

12820651615. A

12820651616. B

12820651617. C

Question Number : 82 Question Id : 12820613086 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following is not a sensible grouping of amino acids based on their polarity properties?

- (a) Ala, Leu and Val
- (b) Arg, His and Lys
- (c) Phe, Trp and Pro
- (d) Asp, Ile and Pro

Options :

- 12820651619. A
- 12820651620. B
- 12820651621. C
- 12820651622. D

Question Number : 83 Question Id : 12820613087 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The catalytic activity of two different enzymes can be compared by the

- (a) K_m value
- (b) pH optimum value
- (c) Molecular size of the enzyme
- (d) Formation of the product

Options :

- 12820651623. A
- 12820651624. B
- 12820651625. C
- 12820651626. D

Question Number : 84 Question Id : 12820613088 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What is the E-site of the ribosome?

- (a) The site where eukaryotic mRNA is processed
- (b) Site at which elongation factors are recruited
- (c) The site where tRNA exits in the prokaryotic ribosome
- (d) The entry point of aminoacyl tRNA

Options :

- 12820651627. A
- 12820651628. B
- 12820651629. C
- 12820651630. D

Which of the following are similar between transcription in prokaryotes and eukaryotes?

- (a) RNA polymerase binds to ribosomes to initiate transcription
- (b) RNA polymerase produces mRNA which grows in the 5' to 3' direction
- (c) polyA tail is added to the 3' end of the transcript
- (d) Introns are spliced out after transcription

Options :

- 12820651631. A
- 12820651632. B
- 12820651633. C
- 12820651634. D

Question Number : 86 Question Id : 12820613090 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

One of the following is not an omega 3 fatty acid

- (a) Alpha linolenic acid
- (b) Docosahexaenoic acid
- (c) Eicosapentaenoic acid
- (d) Gamma linolenic acid

Options :

- 12820651635. A
- 12820651636. B
- 12820651637. C
- 12820651638. D

Question Number : 87 Question Id : 12820613091 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Beta-pleated sheets are the examples of

- (a) Primary structure of protein
- (b) Secondary structure of protein
- (c) Tertiary structure of protein
- (d) Quaternary structure of protein

Options :

- 12820651639. A
- 12820651640. B
- 12820651641. C
- 12820651642. D

Which of the following is true about phosphodiester bond?

- (a) 5' phosphate group of one nucleotide is joined to 3' hydroxyl group of the next nucleotide
- (b) 5' phosphate group of one nucleotide is joined to 5' hydroxyl group of the next nucleotide
- (c) 3' phosphate group of one nucleotide is joined to 3' hydroxyl group of the next nucleotide
- (d) 3' phosphate group of one nucleotide is joined to 5' hydroxyl group of the next nucleotide

Options :

- 12820651643. A
- 12820651644. B
- 12820651645. C
- 12820651646. D

Question Number : 89 Question Id : 12820613093 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The light reaction of photosynthesis takes place in

- (a) matrix
- (b) stroma
- (c) inner membrane of chloroplast
- (d) outer membrane of chloroplast

Options :

- 12820651647. A
- 12820651648. B
- 12820651649. C
- 12820651650. D

Question Number : 90 Question Id : 12820613094 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Enzymes catalyze reactions by

- (a) Increasing activation energy
- (b) Reducing activation energy
- (c) Producing energy for activation
- (d) Absorbing activation energy

Options :

- 12820651651. A
- 12820651652. B
- 12820651653. C
- 12820651654. D

Question Number : 91 Question Id : 12820613095 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
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Which of the following would be a valid application of a karyotyping?

- (a) Microscopic analysis could allow identification of unusual cellular structures
- (b) An individual could be matched to a forensic sample based on identical karyotypes
- (c) Specific gene which causes a genetic disorder could be identified
- (d) Genetic disorders caused by chromosomal rearrangements could be diagnosed

Options :

- 12820651655. A
- 12820651656. B
- 12820651657. C
- 12820651658. D

Question Number : 92 Question Id : 12820613096 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

In plant cells, the intercellular transport of solutes through plasmodesmata is known as

- (a) Active transport
- (b) Symplastic transport
- (c) Membrane transport
- (d) Osmosis

Options :

- 12820651659. A
- 12820651660. B
- 12820651661. C
- 12820651662. D

Question Number : 93 Question Id : 12820613097 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Which organelle is responsible for destroying worn-out cell parts?

- (a) Lysosomes
- (b) Chloroplast
- (c) Mitochondrion
- (d) Ribosome

Options :

- 12820651663. A
- 12820651664. B
- 12820651665. C
- 12820651666. D

Question Number : 94 Question Id : 12820613098 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

- (a) Lysosome
- (b) Golgi bodies
- (c) Ribosome
- (d) Chromatin

Options :

- 12820651667. A
- 12820651668. B
- 12820651669. C
- 12820651670. D

Question Number : 95 Question Id : 12820613099 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Oxidative metabolism is carried out _____ of mitochondria.

- (a) in the intermembrane space
- (b) on the surface of the inner membrane
- (c) in the inside of the outer membrane
- (d) in the matrix

Options :

- 12820651671. A
- 12820651672. B
- 12820651673. C
- 12820651674. D

Question Number : 96 Question Id : 12820613100 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

How large is a typical chloroplast genome?

- (a) 1.5 kbp
- (b) 10 kbp
- (c) 150 kbp
- (d) 1500 kbp

Options :

- 12820651675. A
- 12820651676. B
- 12820651677. C
- 12820651678. D

Which is NOT a characteristic of mitochondria?

- (a) A mitochondrion has two membranes
- (b) Mitochondria are the site of cellular respiration
- (c) Mitochondria are found in prokaryotic and eukaryotic cells
- (d) Mitochondria contains DNA and ribosomes

Options :

- 12820651679. A
- 12820651680. B
- 12820651681. C
- 12820651682. D

Question Number : 98 Question Id : 12820613102 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Histone NOT found in nucleosome core is

- (a) H1
- (b) H2A
- (c) H2B
- (d) H3

Options :

- 12820651683. A
- 12820651684. B
- 12820651685. C
- 12820651686. D

Question Number : 99 Question Id : 12820613103 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The ratio of purines and pyrimidines in mRNA is not 1:1, because the nitrogenous bases are

- (a) Unpaired
- (b) Paired
- (c) Paired only in loops
- (d) Paired noncanonically

Options :

- 12820651687. A
- 12820651688. B
- 12820651689. C
- 12820651690. D

Telomerase is a

- (a) DNA dependant RNA polymerase
- (b) DNA dependant DNA polymerase
- (c) RNA dependant RNA polymerase
- (d) RNA dependant DNA polymerase

Options :

12820651691. A

12820651692. B

12820651693. C

12820651694. D

Question Number : 101 Question Id : 12820613105 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The infection process in which a bacterial cell remain undestroyed and unaffected even in the presence of phage is called as

- (a) Plaques
- (b) Virion
- (c) Viroid
- (d) Lysogeny

Options :

12820651695. A

12820651696. B

12820651697. C

12820651698. D

Question Number : 102 Question Id : 12820613106 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Penicillin inhibits bacterial pathogen multiplication by

- (a) Inhibiting protein synthesis
- (b) Inhibiting cell wall synthesis
- (c) Inhibiting amino acid synthesis
- (d) Destroying chromatin

Options :

12820651699. A

12820651700. B

12820651701. C

12820651702. D

Question Number : 103 Question Id : 12820613107 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

the _____ portion(s) of the visible spectrum

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- (a) red
- (b) green
- (c) red and blue
- (d) green and ultraviolet

Options :

- 12820651703. A
- 12820651704. B
- 12820651705. C
- 12820651706. D

Question Number : 104 Question Id : 12820613108 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The bacteria can be purified by _____ method

- (a) Single hyphal tip
- (b) Streak plate
- (c) Single spore isolation
- (d) Buried slide

Options :

- 12820651707. A
- 12820651708. B
- 12820651709. C
- 12820651710. D

Question Number : 105 Question Id : 12820613109 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The process in which bacterial DNA is transferred from one cell to another with the help of virus is called _____.

- (a) Conjugation
- (b) Mutation
- (c) Transduction
- (d) Transformation

Options :

- 12820651711. A
- 12820651712. B
- 12820651713. C
- 12820651714. D

Question Number : 106 Question Id : 12820613110 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- (a) *Cytophaga*
(b) *Vibrio*
(c) *Bdellovibrio*
(d) *Clostridium*

Options :

12820651715. A
12820651716. B
12820651717. C
12820651718. D

Question Number : 107 Question Id : 12820613111 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Anaerobic nitrogen fixing bacteria present in rice field

- (a) *Pseudomonas*
(b) *Nostoc*
(c) *Clostridium*
(d) *Enterobacter*

Options :

12820651719. A
12820651720. B
12820651721. C
12820651722. D

Question Number : 108 Question Id : 12820613112 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

This enzyme best represents the soil microbial activities

- (a) Dehydrogenase
(b) Urease
(c) Beta-Glucosidase
(d) Phosphatase

Options :

12820651723. A
12820651724. B
12820651725. C
12820651726. D

Question Number : 109 Question Id : 12820613113 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(a) Siderophores

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(b) Metallothionine

(c) Flavanoids

(d) Extra cellular polysaccharide

Options :

12820651727. A

12820651728. B

12820651729. C

12820651730. D

Question Number : 110 Question Id : 12820613114 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Extensive sequential nucleotide analysis and analysis of rRNA has divided the living world into three domains called

(a) bacteria, archaea and eukarya

(b) fungi, plants and animals

(c) procarya, eukarya and animals

(d) archaea, eukarya and viruses

Options :

12820651731. A

12820651732. B

12820651733. C

12820651734. D

Question Number : 111 Question Id : 12820613115 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Plant cells release one of the following chemicals after wounding, which attracts *Agrobacterium*

(a) Lipids

(b) Protein

(c) Hormones

(d) Phenolics

Options :

12820651735. A

12820651736. B

12820651737. C

12820651738. D

Question Number : 112 Question Id : 12820613116 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

(a) Synteny

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(b) C value paradox

(c) Colinearity

(d) Genome complexity

Options :

12820651739. A

12820651740. B

12820651741. C

12820651742. D

Question Number : 113 Question Id : 12820613117 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Taq polymerase usually adds _____ to the end of the polymerized strand of DNA

(a) dCTP

(b) dGTP

(c) dATP

(d) dTTP

Options :

12820651743. A

12820651744. B

12820651745. C

12820651746. D

Question Number : 114 Question Id : 12820613118 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of these enzymes produces blunt ended DNA fragments?

(a) *EcoRI*

(b) *BamHI*

(c) *EcoRV*

(d) *HindIII*

Options :

12820651747. A

12820651748. B

12820651749. C

12820651750. D

Question Number : 115 Question Id : 12820613119 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- (a) the genes in the operon are always expressed
(b) the genes in the operon are expressed when lactose is present
(c) the genes in the operon are expressed when lactose is absent
(d) the genes are expressed in presence of tryptophan

Options :

12820651751. A
12820651752. B
12820651753. C
12820651754. D

Question Number : 116 Question Id : 12820613120 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Due to which of the following DNA repair mechanisms, one is able to distinguish newly synthesized DNA strands from older one?

- (a) New strands do not contain cytosine bases
(b) New strands are lower in molecular size
(c) Old strands are methylated while new strands are not
(d) New strands are methylated while old strands are not

Options :

12820651755. A
12820651756. B
12820651757. C
12820651758. D

Question Number : 117 Question Id : 12820613121 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In bacterial promoters, which of the following describes 'Pribnow Box'?

- (a) 5' untranslated region
(b) -10 sequence
(c) -35 sequence
(d) termination sequence

Options :

12820651759. A
12820651760. B
12820651761. C
12820651762. D

Question Number : 118 Question Id : 12820613122 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

technique used to locate specific genes in chromosome is

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- (a) Colony hybridization
- (b) *In situ* hybridization
- (c) Dot blot technique
- (d) Southern blot hybridization

Options :

12820651763. A

12820651764. B

12820651765. C

12820651766. D

Question Number : 119 Question Id : 12820613123 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If the gene to be cloned is in the size range between 28 and 45 Kb, what will be the ideal vector of choice ?

- (a) Plasmid
- (b) Cosmid
- (c) lamda Phage
- (d) BAC vector

Options :

12820651767. A

12820651768. B

12820651769. C

12820651770. D

Question Number : 120 Question Id : 12820613124 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If a double stranded DNA has 20% of cytosine, calculate the percentage of adenine in the DNA

- (a) 30
- (b) 60
- (c) 20
- (d) 80

Options :

12820651771. A

12820651772. B

12820651773. C

12820651774. D

Question Number : 121 Question Id : 12820613125 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Highly repetitive DNA found near centromeres is called

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- (a) Genic DNA
- (b) Intragenic DNA
- (c) Satellite DNA
- (d) Selfish DNA

Options :

- 12820651775. A
- 12820651776. B
- 12820651777. C
- 12820651778. D

Question Number : 122 Question Id : 12820613126 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

ColE1 origin of replication is

- (a) *E. coli* plasmid origin of replication
- (b) *E. coli* chromosome origin of replication
- (c) *B. subtilis* origin of replication
- (d) Yeast origin of replication

Options :

- 12820651779. A
- 12820651780. B
- 12820651781. C
- 12820651782. D

Question Number : 123 Question Id : 12820613127 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

One of the following is a tissue specific promoter

- (a) Nos promoter
- (b) Rice actin promoter
- (c) Rice glutelin promoter
- (d) Maize ubiquitin promoter

Options :

- 12820651783. A
- 12820651784. B
- 12820651785. C
- 12820651786. D

Question Number : 124 Question Id : 12820613128 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

getted suppression of gene expression or gene silencing is achieved by

- (a) T-DNA insertion
- (b) EMS
- (c) Gamma rays
- (d) RNA interference

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Options :

- 12820651787. A
- 12820651788. B
- 12820651789. C
- 12820651790. D

Question Number : 125 Question Id : 12820613129 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A section of a sequence that begins with an initiation codon and ends with a stop codon is _____

- (a) Untranslated Region (UTR)
- (b) Open Reading Frame (ORF)
- (c) Exon
- (d) Intron

Options :

- 12820651791. A
- 12820651792. B
- 12820651793. C
- 12820651794. D

Question Number : 126 Question Id : 12820613130 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

_____ is a gene based marker.

- (a) RAPD
- (b) ISSR
- (c) SNP
- (d) SSR

Options :

- 12820651795. A
- 12820651796. B
- 12820651797. C
- 12820651798. D

Question Number : 127 Question Id : 12820613131 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

- (a) NILs
- (b) RILs
- (c) F2s
- (d) DH lines

Options :

- 12820651799. A
- 12820651800. B
- 12820651801. C
- 12820651802. D

Question Number : 128 Question Id : 12820613132 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The distance between two markers in a eukaryotic genetic map is usually represented by

- (a) kb
- (b) kDa
- (c) kb
- (d) cM

Options :

- 12820651803. A
- 12820651804. B
- 12820651805. C
- 12820651806. D

Question Number : 129 Question Id : 12820613133 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which genetically modified trait occupies the largest area in the world?

- (a) Insect resistance
- (b) Virus resistance
- (c) Herbicide tolerance
- (d) Drought tolerance

Options :

- 12820651807. A
- 12820651808. B
- 12820651809. C
- 12820651810. D

Question Number : 130 Question Id : 12820613134 Question Type : MCQ Option Shuffling : No Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

ment of sugarcane phytoalexins in red-rot resistance has been observed. The phytoalexin compound is reported to be

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- (a) 3-deoxyanthocyanidin
- (b) Luteolinidin
- (c) Apigeninidin
- (d) 5-O apigeninidin

Options :

- 12820651811. A
- 12820651812. B
- 12820651813. C
- 12820651814. D

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