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National Testing Agency

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Food Chemistry

Group Number :	1
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Is this Group for Examiner? :	No

Food Chemistry-1

Section Id :	512452805
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	100

Number of Questions to be attempted :	100
Section Marks :	100
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	512452845
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 51245213626 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The process of removal of sulfur dioxide with the limestone slurry injection directly in to flue gas is called as

1. Desulphurization
2. Sulphurization
3. Ammonification
4. All of the above

Options :

- 51245242501. 1
- 51245242502. 2
- 51245242503. 3
- 51245242504. 4

Question Number : 2 Question Id : 51245213627 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Shelf life of a food substance can be increased by

1. Increasing the amount of water
2. Decreasing the amount of water
3. Maintaining the water level of that food substance
4. None of the above

Options :

- 51245242505. 1
- 51245242506. 2
- 51245242507. 3
- 51245242508. 4

Question Number : 3 Question Id : 51245213628 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The average BMI of an healthy individual is _____.

- 1. 19.5 kg/m²
- 2. 21 kg/m²
- 3. 16 kg/m²
- 4. 27 kg/m²

Options :

- 51245242509. 1
- 51245242510. 2
- 51245242511. 3
- 51245242512. 4

Question Number : 4 Question Id : 51245213629 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Chromatography was invented by _____.

- 1. Tswett
- 2. Watson
- 3. AJP martin
- 4. Kary mullis

Options :

51245242513. 1

51245242514. 2

51245242515. 3

51245242516. 4

Question Number : 5 Question Id : 51245213630 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following biomolecules can replace fats for the source of energy?

1. Nucleic acids
2. Vitamins
3. Carbohydrates
4. Minerals

Options :

51245242517. 1

51245242518. 2

51245242519. 3

51245242520. 4

Question Number : 6 Question Id : 51245213631 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Proteins are the polymers of _____.

1. Purines
2. Fatty acids
3. Sugars
4. Amino acids

Options :

51245242521. 1

51245242522. 2

51245242523. 3

51245242524. 4

Question Number : 7 Question Id : 51245213632 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

All the essential amino acids are found in

1. Rice
2. Wheat
3. Ragi
4. Egg

Options :

51245242525. 1

51245242526. 2

51245242527. 3

51245242528. 4

Question Number : 8 Question Id : 51245213633 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Progel refers to _____ phase.

1. Solid
2. Liquid
3. Gel
4. Viscous liquid

Options :

51245242529. 1

51245242530. 2

51245242531. 3

51245242532. 4

Question Number : 9 Question Id : 51245213634 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The speed of migration of ions in an electric field depends on

1. Magnitude of charge and mass of molecules
2. Magnitude of charge and shape of molecules
3. Shape and size of the molecule
4. Magnitude of charge, shape and mass of molecules

Options :

- 51245242533. 1
- 51245242534. 2
- 51245242535. 3
- 51245242536. 4

Question Number : 10 Question Id : 51245213635 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which is the technique suited for the separation of large DNA fragments?

1. AGE
2. PAGE
3. PFGE
4. SDS-PAGE

Options :

- 51245242537. 1
- 51245242538. 2
- 51245242539. 3
- 51245242540. 4

Question Number : 11 Question Id : 51245213636 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The electrophoresis technique that used isoelectric focusing is

1. AGE
2. PFGE
3. 2D-PAGE
4. SDS-PAGE

Options :

- 51245242541. 1
- 51245242542. 2
- 51245242543. 3
- 51245242544. 4

Question Number : 12 Question Id : 51245213637 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Arachidic acid has ___ carbon atoms in its chain.

1. 18
2. 20
3. 21
4. 16

Options :

- 51245242545. 1
- 51245242546. 2
- 51245242547. 3
- 51245242548. 4

Question Number : 13 Question Id : 51245213638 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Structural polysaccharides include

1. Cellulose, hemicellulose and chitin
2. Cellulose, starch and chitin
3. Cellulose, starch and glycogen
4. Cellulose, glycogen and chitin

Options :

- 51245242549. 1
- 51245242550. 2
- 51245242551. 3
- 51245242552. 4

Question Number : 14 Question Id : 51245213639 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Starch consists of

1. Unbranched amylose and branched amylopectin
2. Branched amylose and branched amylopectin
3. Unbranched amylose and unbranched amylopectin
4. None of the above

Options :

- 51245242553. 1
- 51245242554. 2
- 51245242555. 3
- 51245242556. 4

Question Number : 15 Question Id : 51245213640 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which one among the four is known as mushroom sugar?

1. Cellulose
2. Hemicellulose
3. Trehalose
4. Pectin

Options :

- 51245242557. 1
- 51245242558. 2
- 51245242559. 3
- 51245242560. 4

Question Number : 16 Question Id : 51245213641 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Browning reaction in sugar is known as _____.

1. Hydrogenation
2. Acetylation
3. Vernalization
4. Caramelization

Options :

- 51245242561. 1
- 51245242562. 2
- 51245242563. 3
- 51245242564. 4

Question Number : 17 Question Id : 51245213642 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Incineration method of waste disposal is best for _____.

1. Vegetable waste
2. Plastic
3. Household waste
4. Medical waste

Options :

- 51245242565. 1
- 51245242566. 2
- 51245242567. 3
- 51245242568. 4

Question Number : 18 Question Id : 51245213643 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Concentrated fuel reserve of the body is _____.

1. Lipid
2. Carbohydrates
3. Protein
4. Minerals

Options :

- 51245242569. 1
- 51245242570. 2
- 51245242571. 3
- 51245242572. 4

Question Number : 19 Question Id : 51245213644 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Docosahexaenoic acid is a _____ fatty acid.

1. ω -3
2. ω -5
3. ω -6
4. ω -9

Options :

51245242573. 1
51245242574. 2
51245242575. 3
51245242576. 4

Question Number : 20 Question Id : 51245213645 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The most abundant form of fat in food is _____.

1. Diglycerides
2. Monoglycerides
3. Triglycerides
4. Cholestrol

Options :

51245242577. 1
51245242578. 2
51245242579. 3
51245242580. 4

Question Number : 21 Question Id : 51245213646 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Lecithin was found in _____.

1. Milk
2. Plants
3. Rice
4. Egg yolk

Options :

- 51245242581. 1
- 51245242582. 2
- 51245242583. 3
- 51245242584. 4

Question Number : 22 Question Id : 51245213647 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

1 gm of fat gives _____ kcal.

1. 4
2. 6
3. 9
4. 12

Options :

- 51245242585. 1
- 51245242586. 2
- 51245242587. 3
- 51245242588. 4

Question Number : 23 Question Id : 51245213648 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following has the highest melting point?

1. Butyric acid
2. Myristic acid
3. Oleic acid
4. Linolenic acid

Options :

51245242589. 1
51245242590. 2
51245242591. 3
51245242592. 4

Question Number : 24 Question Id : 51245213649 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The specific gravity of fat is _____.

1. 1.0
2. 0.86
3. 0.1
4. 0.68

Options :

51245242593. 1
51245242594. 2
51245242595. 3
51245242596. 4

Question Number : 25 Question Id : 51245213650 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The colour of smoke observed during determining the smoke point is

1. Red
2. Green
3. Blue
4. Black

Options :

51245242597. 1

51245242598. 2

51245242599. 3

51245242600. 4

Question Number : 26 Question Id : 51245213651 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The major gas released during aerobic degradation is

1. CH₄
2. CO₂
3. CO
4. H₂S

Options :

51245242601. 1

51245242602. 2

51245242603. 3

51245242604. 4

Question Number : 27 Question Id : 51245213652 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Why is it generally preferable to use absorbance as a measure of absorption rather than % transmittance?

1. Because %T cannot be measured as accurately as absorbance.
2. Because %T is dependant on the power of the incident radiation.
3. Because absorbance is proportional to all concentration of the analyte whereas %T is not.
4. None of the above.

Options :

- 51245242605. 1
- 51245242606. 2
- 51245242607. 3
- 51245242608. 4

Question Number : 28 Question Id : 51245213653 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The temperature shift during composting process is from

1. Psychotrophic to mesophilic
2. Mesophilic to thermophilic
3. Thermophilic to mesophilic
4. Thermophilic to psychotrophic

Options :

- 51245242609. 1
- 51245242610. 2
- 51245242611. 3
- 51245242612. 4

Question Number : 29 Question Id : 51245213654 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

For single stage filters in Rankin's equation BOD of waste water should not exceed

1. 2.5 kg BOD₅/day/m³ filter volume
2. 1.2 kg BOD₅/day/m³ filter volume
3. 2 kg BOD₅/day/m³ filter volume
4. None of the above

Options :

- 51245242613. 1
- 51245242614. 2
- 51245242615. 3
- 51245242616. 4

Question Number : 30 Question Id : 51245213655 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

In the traditional method of pickling, the product is cured with

1. Salt
2. Sugar
3. Oil
4. Water

Options :

- 51245242617. 1
- 51245242618. 2
- 51245242619. 3
- 51245242620. 4

Question Number : 31 Question Id : 51245213656 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

In surface vapor flux equation p_v, s

1. Vapor flux
2. Mass transfer coefficient
3. Interfacial vapor concentration
4. None of the above

Options :

- 51245242621. 1
- 51245242622. 2
- 51245242623. 3
- 51245242624. 4

Question Number : 32 Question Id : 51245213657 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Denitrification occurs in

1. High rate filtration
2. Low rate filter
3. Slow sand filter
4. Rapid sand filter

Options :

- 51245242625. 1
- 51245242626. 2
- 51245242627. 3
- 51245242628. 4

Question Number : 33 Question Id : 51245213658 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The recirculation factor in a low rate trickling filter is

1. 0
2. 1
3. 10
4. 100

Options :

- 51245242629. 1
- 51245242630. 2
- 51245242631. 3
- 51245242632. 4

Question Number : 34 Question Id : 51245213659 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following can be recycled multiple times?

1. Plastic
2. Wood
3. Organic materials
4. Aluminium

Options :

- 51245242633. 1
- 51245242634. 2
- 51245242635. 3
- 51245242636. 4

Question Number : 35 Question Id : 51245213660 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which chemical is used for Fruity flavor?

1. Allylpyrazine
2. Acetyl-I-pyrazine
3. Alehydes
4. 2-Isobutyl-3-methoxypyrazine

Options :

51245242637. 1
51245242638. 2
51245242639. 3
51245242640. 4

Question Number : 36 Question Id : 51245213661 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Quinones is the essential pigment used to convert light into

1. Chemical energy
2. Electrical energy
3. Hydrolytic energy
4. None of the above

Options :

51245242641. 1
51245242642. 2
51245242643. 3
51245242644. 4

Question Number : 37 Question Id : 51245213662 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Pick out the Benzopyran derivatives.

1. Anthocyanins
2. Purines
3. Phenoxazines
4. Phenazines

Options :

- 51245242645. 1
- 51245242646. 2
- 51245242647. 3
- 51245242648. 4

Question Number : 38 Question Id : 51245213663 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Betalains belong to which group of chemical compounds?

1. Tetrapyrroles
2. Tetraterpenoids
3. Quinones
4. N-heterocyclic compounds

Options :

- 51245242649. 1
- 51245242650. 2
- 51245242651. 3
- 51245242652. 4

Question Number : 39 Question Id : 51245213664 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Non nutrient compounds found in plant derived foods that have biological activity in the body are _____.

1. Phytochemicals
2. Vitamins
3. Carbohydrates
4. Fatty acids

Options :

- 51245242653. 1
- 51245242654. 2
- 51245242655. 3
- 51245242656. 4

Question Number : 40 Question Id : 51245213665 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Name the method which is rapidly being adopted to reduce cost and to enable increased mechanical harvesting.

1. Sorting method
2. Selection method
3. Bulk handling method
4. Slicing

Options :

- 51245242657. 1
- 51245242658. 2
- 51245242659. 3
- 51245242660. 4

Question Number : 41 Question Id : 51245213666 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Non protein substance of protein is called _____.

1. Cofactor
2. co-enzyme
3. Prosthetic group
4. Apoprotein

Options :

- 51245242661. 1
- 51245242662. 2
- 51245242663. 3
- 51245242664. 4

Question Number : 42 Question Id : 51245213667 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Mayonnaise is an example of _____functional property of proteins.

1. Foaming
2. Adhesive
3. Emulsifying
4. Thickening

Options :

- 51245242665. 1
- 51245242666. 2
- 51245242667. 3
- 51245242668. 4

Question Number : 43 Question Id : 51245213668 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Phenylalanine is a/an _____.

1. Basic amino acid
2. Acidic amino acid
3. Aromatic amino acid
4. Neutral amino acid

Options :

- 51245242669. 1
- 51245242670. 2
- 51245242671. 3
- 51245242672. 4

Question Number : 44 Question Id : 51245213669 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

High pressure liquid chromatography is _____ technique.

1. Separation
2. Novel
3. Vacuum creating
4. Hi-tech

Options :

- 51245242673. 1
- 51245242674. 2
- 51245242675. 3
- 51245242676. 4

Question Number : 45 Question Id : 51245213670 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The uphill movement of a substance, i.e., the movement from lower to higher concentration gradient with the expenditure of energy is referred to as

1. Passive diffusion
2. Facilitated diffusion
3. Active transport
4. Osmosis

Options :

- 51245242677. 1
- 51245242678. 2
- 51245242679. 3
- 51245242680. 4

Question Number : 46 Question Id : 51245213671 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The richest source/(s) of vitamin K is/are

1. Impaired dark adaptation
2. Poor brain growth and development
3. Dark green leafy vegetables
4. Gastrointestinal disorder

Options :

- 51245242681. 1
- 51245242682. 2
- 51245242683. 3
- 51245242684. 4

Question Number : 47 Question Id : 51245213672 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Cakes have a water activity of _____.

1. 1.0
2. 0.3
3. 0.5
4. >1.0

Options :

- 51245242685. 1
- 51245242686. 2
- 51245242687. 3
- 51245242688. 4

Question Number : 48 Question Id : 51245213673 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Strongly bound water in foods is also known as _____ water.

1. Weak
2. Type I
3. Type II
4. Type III

Options :

- 51245242689. 1
- 51245242690. 2
- 51245242691. 3
- 51245242692. 4

Question Number : 49 Question Id : 51245213674 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Ribozymes are

1. Enzymes active near ribosomes units
2. Enzymes which act on ribose as substrates
3. RNAs with catalytic activity
4. Enzyme-RNA complex

Options :

- 51245242693. 1
- 51245242694. 2
- 51245242695. 3
- 51245242696. 4

Question Number : 50 Question Id : 51245213675 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Decreasing oxygen content, _____ the rate of non-enzymatic browning.

1. Increases
2. Decreases
3. Stabilizes
4. Diminishes

Options :

- 51245242697. 1
- 51245242698. 2
- 51245242699. 3
- 51245242700. 4

Question Number : 51 Question Id : 51245213676 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The browning effect of apples can be prevented using _____.

1. Vinegar
2. Baking soda
3. Lime juice
4. Coconut oil

Options :

- 51245242701. 1
- 51245242702. 2
- 51245242703. 3
- 51245242704. 4

Question Number : 52 Question Id : 51245213677 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Fats and oils are normally

1. Tasteless
2. Colorless
3. Odorless
4. All of the above

Options :

- 51245242705. 1
- 51245242706. 2
- 51245242707. 3
- 51245242708. 4

Question Number : 53 Question Id : 51245213678 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Vibrational spectroscopy is

1. A large mass on a weak spring.
2. A flashlight through a prism and shake it.
3. A class of spectroscopic techniques which analyzes molecular motion.
4. An infrared spectroscopy.

Options :

- 51245242709. 1
- 51245242710. 2
- 51245242711. 3
- 51245242712. 4

Question Number : 54 Question Id : 51245213679 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Frying of fats leads to

1. Oxidation
2. Reduction
3. Hydrogenation
4. Rancidity

Options :

- 51245242713. 1
- 51245242714. 2
- 51245242715. 3
- 51245242716. 4

Question Number : 55 Question Id : 51245213680 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Coconut oil is a _____.

1. W-3 fatty acid
2. W-6 fatty acid
3. Saturated fatty acid
4. Unsaturated fatty acid

Options :

51245242717. 1

51245242718. 2

51245242719. 3

51245242720. 4

Question Number : 56 Question Id : 51245213681 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The characteristic bond found in the formation of secondary structure of protein is

1. Amide bond
2. Vanderwalls force
3. Hydrogen bond
4. Phosphodiester bond

Options :

51245242721. 1

51245242722. 2

51245242723. 3

51245242724. 4

Question Number : 57 Question Id : 51245213682 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The stability of the alpha helix is mainly given by _____.

1. Hydrogen bond
2. Covalent bond
3. Imide bond
4. Hydrophobic interaction

Options :

51245242725. 1

51245242726. 2

51245242727. 3

51245242728. 4

Question Number : 58 Question Id : 51245213683 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Vitamin D synthesis is influenced by

1. Water
2. pH
3. Temperature
4. Sunlight

Options :

51245242729. 1

51245242730. 2

51245242731. 3

51245242732. 4

Question Number : 59 Question Id : 51245213684 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Electrophoresis cell or electrophoresis apparatus consists of

1. Power pack and electrophoresis unit.
2. Electrophoresis unit and DNA separator.
3. Buffer chamber and Electrophoresis unit.
4. Gel, buffer chamber and power pack.

Options :

- 51245242733. 1
- 51245242734. 2
- 51245242735. 3
- 51245242736. 4

Question Number : 60 Question Id : 51245213685 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

What is the role of APS in SDS-PAGE?

1. Protein denaturing and imparting net negative charge.
2. Imparting overall negative charge to the protein.
3. Generating free radicals.
4. Protein unfolding and imparting net positive charge.

Options :

- 51245242737. 1
- 51245242738. 2
- 51245242739. 3
- 51245242740. 4

Question Number : 61 Question Id : 51245213686 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Molar extinction coefficient is the measure of the

1. Amount of light adsorbed per unit length.
2. Amount of light reflected and adsorbed per unit concentration.
3. Amount of light absorbed per unit concentration.
4. All of the above.

Options :

- 51245242741. 1
- 51245242742. 2
- 51245242743. 3
- 51245242744. 4

Question Number : 62 Question Id : 51245213687 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

In which region of the infrared spectrum would you expect to find a peak characteristic of a triple bond stretch?

1. $4000 - 3000\text{cm}^{-1}$
2. $2500 - 2000\text{cm}^{-1}$
3. $2000 - 1500\text{cm}^{-1}$
4. $1500 - 750\text{cm}^{-1}$

Options :

- 51245242745. 1
- 51245242746. 2
- 51245242747. 3
- 51245242748. 4

Question Number : 63 Question Id : 51245213688 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Amylopectin has

1. β -1-4 and β -1-6 linkage
2. β -1-2 linkage
3. α -1-4 and α -1-6 linkage
4. α -1-2 linkage

Options :

51245242749. 1
51245242750. 2
51245242751. 3
51245242752. 4

Question Number : 64 Question Id : 51245213689 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

A series of 3 coloured glass plates of equal thickness are placed in a light beam. Each sheet absorbs one quarter of the light incident upon it. What is the intensity of the light transmitted by the third glass plate?

1. 1.56%
2. 42.19%
3. 56.25%
4. 75.00%

Options :

51245242753. 1
51245242754. 2
51245242755. 3
51245242756. 4

Question Number : 65 Question Id : 51245213690 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Carbon, hydrogen and oxygen ratio in carbohydrates is

1. 2:2:1
2. 1:2:2
3. 1:2:1
4. 2:1:2

Options :

51245242757. 1
51245242758. 2
51245242759. 3
51245242760. 4

Question Number : 66 Question Id : 51245213691 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The hydrogenation of D-glucose leads to the formation of _____.

1. Mannitol
2. Galactitol
3. Xylitol
4. Sorbitol

Options :

51245242761. 1
51245242762. 2
51245242763. 3
51245242764. 4

Question Number : 67 Question Id : 51245213692 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

In maillard reaction schiff's base is formed between a sugar and _____ amino acid of proteins.

1. Arginine
2. Lysine
3. Glycine
4. Leucine

Options :

- 51245242765. 1
- 51245242766. 2
- 51245242767. 3
- 51245242768. 4

Question Number : 68 Question Id : 51245213693 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Fat is stored in specialized cells known as _____.

1. Myocytes
2. Neurons
3. Adipocytes
4. Hepatocytes

Options :

- 51245242769. 1
- 51245242770. 2
- 51245242771. 3
- 51245242772. 4

Question Number : 69 Question Id : 51245213694 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Intake of high _____ would lead to the risk of coronary heart disease.

1. EPA
2. DHA
3. Cholestrol
4. α -Linolenic acid

Options :

51245242773. 1
51245242774. 2
51245242775. 3
51245242776. 4

Question Number : 70 Question Id : 51245213695 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Lipids are soluble in _____.

1. Water
2. Saline
3. Benzene
4. Sucrose solution

Options :

51245242777. 1
51245242778. 2
51245242779. 3
51245242780. 4

Question Number : 71 Question Id : 51245213696 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The number of double bonds in arachidonic acid is

1. 3
2. 4
3. 2
4. 5

Options :

- 51245242781. 1
- 51245242782. 2
- 51245242783. 3
- 51245242784. 4

Question Number : 72 Question Id : 51245213697 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Palmitic acid has ___ carbon atoms in its chain.

1. 18
2. 20
3. 21
4. 16

Options :

- 51245242785. 1
- 51245242786. 2
- 51245242787. 3
- 51245242788. 4

Question Number : 73 Question Id : 51245213698 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Melting point is determined by ____ method.

1. Chromatography
2. Electrophoresis
3. Open-tube capillary slip
4. Titration

Options :

- 51245242789. 1
- 51245242790. 2
- 51245242791. 3
- 51245242792. 4

Question Number : 74 Question Id : 51245213699 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

_____ is used in determining the peroxide value.

1. Sodium chloride
2. SDS
3. Potassium iodide
4. Ethanol

Options :

- 51245242793. 1
- 51245242794. 2
- 51245242795. 3
- 51245242796. 4

Question Number : 75 Question Id : 51245213700 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The natural process of solid waste management is

1. Landfill
2. Incineration
3. Dewatering
4. All of the above

Options :

- 51245242797. 1
- 51245242798. 2
- 51245242799. 3
- 51245242800. 4

Question Number : 76 Question Id : 51245213701 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Poikilothermic organisms are referred to as

1. The organism whose internal temperature is constant.
2. The organisms with change in internal temperature.
3. Warm body temperature.
4. Cold body temperature.

Options :

- 51245242801. 1
- 51245242802. 2
- 51245242803. 3
- 51245242804. 4

Question Number : 77 Question Id : 51245213702 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Major factors that affect the rate of decomposition of the organic matter during composting

1. Oxygen
2. Moisture
3. Temperature
4. All of the above

Options :

- 51245242805. 1
- 51245242806. 2
- 51245242807. 3
- 51245242808. 4

Question Number : 78 Question Id : 51245213703 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The E2 in NRC equation represents

1. % efficiency in BOD removal of single stage or first stage of two-stage filter.
2. % efficiency of second stage filter.
3. % efficiency of third stage filter.
4. % efficiency of fourth stage filter.

Options :

- 51245242809. 1
- 51245242810. 2
- 51245242811. 3
- 51245242812. 4

Question Number : 79 Question Id : 51245213704 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The only two chemical preservatives permitted under FPO-1955 in the country are

1. Iodine and Sodium oxide
2. Calcium carbonate and chlorine
3. Hydrochloride and Iodine
4. Sulphur dioxide and Benzoic Acid

Options :

51245242813. 1

51245242814. 2

51245242815. 3

51245242816. 4

Question Number : 80 Question Id : 51245213705 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

_____ is one of the factors which influence the strategy of product development.

1. Size
2. Flavour
3. Colour
4. Market type

Options :

51245242817. 1

51245242818. 2

51245242819. 3

51245242820. 4

Question Number : 81 Question Id : 51245213706 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

When vapour concentration difference is positive

1. Vapor leaves the material and thus drying occurs.
2. Wetting occurs.
3. Humidification occurs.
4. None of the above.

Options :

- 51245242821. 1
- 51245242822. 2
- 51245242823. 3
- 51245242824. 4

Question Number : 82 Question Id : 51245213707 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The BOD after the filtration of sewage from the low rate trickling filter is

1. 40-50%
2. 80-90%
3. 70-80%
4. 90-99%

Options :

- 51245242825. 1
- 51245242826. 2
- 51245242827. 3
- 51245242828. 4

Question Number : 83 Question Id : 51245213708 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

What plan should we make to the disposal of solid waste?

1. Integrated waste management plan
2. Recycling of waste management plan
3. Reducing of waste management plan
4. Use of waste management plan

Options :

51245242829. 1

51245242830. 2

51245242831. 3

51245242832. 4

Question Number : 84 Question Id : 51245213709 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The taste buds are distributed within the _____ of the tongue.

1. Base
2. Top
3. Papillae
4. Surface

Options :

51245242833. 1

51245242834. 2

51245242835. 3

51245242836. 4

Question Number : 85 Question Id : 51245213710 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

The E-numbers of the flavour enhancers mono sodium glutamate

1. E621
2. E636
3. E630
4. E601

Options :

- 51245242837. 1
- 51245242838. 2
- 51245242839. 3
- 51245242840. 4

Question Number : 86 Question Id : 51245213711 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Important components that contribute to flavor

1. carotenoids
2. quinacridone
3. Amino acids and nucleotides
4. Quinones

Options :

- 51245242841. 1
- 51245242842. 2
- 51245242843. 3
- 51245242844. 4

Question Number : 87 Question Id : 51245213712 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Flavonoids have the basic carbon skeleton of

1. $C_6C_3C_6$
2. $C_3C_6C_3$
3. $C_6C_2C_6$
4. $C_5C_3C_6$

Options :

51245242845. 1

51245242846. 2

51245242847. 3

51245242848. 4

Question Number : 88 Question Id : 51245213713 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which of the following is not a macro-nutrient?

1. Carbohydrates
2. Lipids
3. Proteins
4. Vitamins

Options :

51245242849. 1

51245242850. 2

51245242851. 3

51245242852. 4

Question Number : 89 Question Id : 51245213714 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Which vegetable has high post harvest losses in India?

1. Cauliflower
2. Tomato
3. Cabbage
4. Potato

Options :

- 51245242853. 1
- 51245242854. 2
- 51245242855. 3
- 51245242856. 4

Question Number : 90 Question Id : 51245213715 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Partial de watering and direct formulation of fruit/vegetable juice can be obtained by immersing in the concentrated solution of salt or sugar. This process is known as

1. Osmoregulation
2. Osmotic diffusion
3. Osmotic dehydration
4. Osmolysis

Options :

- 51245242857. 1
- 51245242858. 2
- 51245242859. 3
- 51245242860. 4

Question Number : 91 Question Id : 51245213716 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

The hydrogen bonding in a β -sheet is _____.

1. Intra strand
2. well aligned
3. Inter strand
4. disrupted

Options :

- 51245242861. 1
- 51245242862. 2
- 51245242863. 3
- 51245242864. 4

Question Number : 92 Question Id : 51245213717 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Proteins are synthesized by a series of steps called _____.

1. Transcription
2. Translation
3. Transduction
4. 1 and 2 only

Options :

- 51245242865. 1
- 51245242866. 2
- 51245242867. 3
- 51245242868. 4

Question Number : 93 Question Id : 51245213718 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

An ionic reaction in proteins promotes _____ interactions.

1. protein-protein
2. protein-solvent
3. solvent-solvent
4. protein-water

Options :

- 51245242869. 1
- 51245242870. 2
- 51245242871. 3
- 51245242872. 4

Question Number : 94 Question Id : 51245213719 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Scientists Dam, Karrer and co-workers worked towards isolation of which vitamin?

1. Vitamin A
2. Vitamin K
3. Vitamin E
4. Vitamin D

Options :

- 51245242873. 1
- 51245242874. 2
- 51245242875. 3
- 51245242876. 4

Question Number : 95 Question Id : 51245213720 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Muscle weakness is associated with deficiency of

1. Sodium
2. Potassium
3. Magnesium
4. None of the above

Options :

51245242877. 1

51245242878. 2

51245242879. 3

51245242880. 4

Question Number : 96 Question Id : 51245213721 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

_____ food are more sensitive to moisture.

1. Fried
2. Dried
3. Crystalline
4. Hygroscopic

Options :

51245242881. 1

51245242882. 2

51245242883. 3

51245242884. 4

Question Number : 97 Question Id : 51245213722 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

If the substrate concentration in an enzyme catalyzed reaction is $0.5 K_m$, the initial velocity (V_0) of the reaction will be:

1. $0.33 V_{max}$
2. $0.44 V_{max}$
3. $0.24 V_{max}$
4. $0.55 V_{max}$

Options :

51245242885. 1
51245242886. 2
51245242887. 3
51245242888. 4

Question Number : 98 Question Id : 51245213723 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Specific activity of an enzyme is defined as:

1. Unit activity per milligram of protein.
2. Amount of specific enzyme responsible for conversion of $1 \mu\text{mol}$ a specific substrate to a final product per minute.
3. Activity of enzyme per ml of the extract.
4. Unit activity per milligram of the extract.

Options :

51245242889. 1
51245242890. 2
51245242891. 3
51245242892. 4

Question Number : 99 Question Id : 51245213724 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

Co-factors of an enzyme

1. block enzyme activity
2. assist enzyme in catalysis
3. enhance enzyme activity
4. increase the activation energy of the enzymatic reaction

Options :

51245242893. 1

51245242894. 2

51245242895. 3

51245242896. 4

Question Number : 100 Question Id : 51245213725 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0

SWOT analysis includes understanding of Strengths, Weaknesses, Opportunities and _____.

1. Time
2. Temperature
3. Tension
4. Threats

Options :

51245242897. 1

51245242898. 2

51245242899. 3

51245242900. 4