

PU M Sc Food Science and Technology

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Protein that helps to maintain the body's fluid balance:-

- Globulins
- Glutaelins
- Prolamines
- Albumins

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Susceptibility of bacteria to antibiotics depends on:-

- Nucleoplasm
- Protoplasm
- Cytoplasm
- Cell wall

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What is GILSP?

- Guidelines in Laboratory Sampling Procedure
- Good Industrial Laboratory Scale Practice
- Good Industrial Large Scale Practice
- Good Industrial Laboratory Scale Protocol

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Which organism act as the potent reducers of dye Methylene blue reductase?

- Streptococcus lactis*
- Saccharomyces cerevisiae*
- Staphylococcus lactis*
- Listeria monocytogenes*

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Meat has _____ amino acids.

- All essential
- Limited
- All

None

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Chief carotenoid present in chilly is:-

- Lycopene
- Xanthophyll
- Capsanthin
- All of the above

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Sliminess or souring is due to:-

- Osmophilic yeast
- Mould
- Saprophytic bacteria
- Saccharophilicmould

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Dye used for screening Poly Hydroxy Alkanoates (PHA):-

- Nile red
- Nile blue
- All of these
- Sudan Black

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Myoglobin is:-

- Protein
- Lipid
- Carbohydrate
- Vitamin

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During contraction , the lenth of _____ shorten.

- a) A band
- b) I band
- c) H-zone

- d) Both (b) and (c)

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A lipoprotein is born as a:-

- Fat
 Chloesterol
 Lipid
 Chylomicron

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Which of the following is the correct sequence of the given plastic material used in packaging in decreasing order of their tensile properties?

- PVC, LDPE, HDPE and PET
 PET, HDPE, LDPE and PVC
 PVC, HDPE, LDPE and PET
 PET, LDPE, HDPE and PVC

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Enveloped viruses carry surface receptors called:-

- Spikes
 Buds
 Sheath
 Fibres

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Respiratory Quotient RQ is a measure of:-

- Amount of O₂ formed / gram of substrate feed
 Amount of CO₂ formed / gram of substrate feed
 Amount of CO₂ formed/ gram of O₂ feed
 None of the above

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C- enamel cans are used for:-

- Low acid foods
 High acid foods

- Medium acid foods
- Non acid foods

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Major stimulus for spore formation in bacteria is:-

- Heat stress
- Nutrition limitation
- pH
- Cold stress

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The dark bands of muscle is known as:-

- H- zone
- Anisotropic bands
- Z- line
- Isotropic bands

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pH of honey is:-

- 2.3 - 2.9
- 7.0 - 8.0
- 3.2 - 4.2
- 5.6 - 6.9

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Major offending organism in food handlers is:-

- Salmonella typhi*
- Escherichia coli*
- Staphylococcus*
- Streptococcus*

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Zero emission is related in:-

- Air pollution
- Noise pollution

- Water pollution
- Land pollution

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The concept which asserts the existence of a specified level of emissions into the environment which does not lead to unacceptable environmental or human health effects:-

- Pollution control concept
- Wichman-Fievig concept
- Assimilative capacity concept
- Principle of control concept

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Coconut extract agar detects:-

- Ochratoxin
- Aflatoxin
- Penicillin
- Calcitonin

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The first commercial aseptic filling plant was brought by:-

- DHL company
- DXN company
- Dole company
- DRL company

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Frankfurter sausages are:-

- Fresh, cooked and smoked
- Cured, Uncooked and smoked
- Cured, cooked and smoked
- Cures, cooked and unsmoked

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The process of crushed or pressed to express the juice from grapes in wine production is called:-

- Must

- Malt
- Mast
- Juicing

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Which of the following is sulphur containing spice?

- Clove
- Asfoetida
- Dill
- Vanilla

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Among the following which does not belongs to POPs:-

- Furanes
- Dioxins
- DTT
- PCP

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Bloats in pickles is due to:-

- Lactobacillus brevis*
- Lactobacillus plantarum*
- Lactobacillus lactis*
- All of the above

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What is cellophane?

- It has no relation with cellulose
- A cellobiose combined with ethane
- Cellulose combined with methane
- Regenerated cellulose

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Protein that soluble only in dilute acids and alkalines:-

- Globulins

- Prolamines
- Albumins
- Glutaelins

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Fruit juice can be concentrated in a:-

- Long tube evaporator
- High pressure evaporator
- Falling film evaporator
- None of these

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The technique first described to determine the incipient spoilage in meat was:-

- Agar plate count (APC)
- Homogenate extract volume (HEV)
- Extract release volume (ERV)
- None of the above

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The *Bacillus cereus* causes gastroenteritis by the production of an exoenterotoxin which is released in food as a result of:-

- Cell permeation
- Cell growth
- Cell damage
- Cell autolysis

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Which acts as the sites of oxidative metabolism?

- Ribosome
- Lysozyme
- Mitochondria
- Chloroplast

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Cured meats are called:-

- Beef
- Bacon
- Ham
- Marinades

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True garlic colour is due to the presence of:-

- Trimethylsulphoxide
- Diallylsulphide
- Tetramethylsulphonate
- Mixture of above

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Up on thawing of meat, the liquid that comes out from meat is called:-

- Blot
- Drip
- Drop
- None

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Cocoa butter has:-

- Very high melting point
- Long range of melting point
- Sharp melting point
- None of the above

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Ageing /ripening of meat is done at _____ °C.

- 25
- 2
- 10
- 7

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Which fills cell interior like sugars , aminoacids and protein?

- Cytoplasm
- Endoplamic reticulum
- Plasma menbrane
- Nucleus

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Test used to determine most probable number of colliform bacteria:-

- Presumptive test
- Primitive test
- Methylene blue reductase test
- Most probable number test

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For an ideal gas, the compressibility factor:-

- Is unity at all temperature
- Decreases with pressure rise
- Is unity at Boyle's temperature
- Zero

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In which microscope electrons are transmitted through specimen:-

- Scanning Electron Microscope
- Fluroscnt microscope
- Electron transmit microscope
- Transmission Electron Microscope

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Lliipie butter is:-

- Equivalent fat
- Oil obtained from ground nut
- Cocoa butter substitute
- Butter obtained from cow milk

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If the mash in the brewhouse is held too long it may undergo:-

- a) Butyric acid fermentation
- b) Lactic acid fermentation
- c) Both (a) and (b)
- d) Citric acid fermentation

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Bacteria present during maturation of nector to honey:-

- a) *Glucanobacter*
- b) *Lactobacillus*
- c) *Penicillium*
- d) Both (a) & (b)

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Volatile oils can be obtained from spices by using:-

- Microwave
- Supercritical fluid extraction
- Solvent extraction
- All of the above

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Deposition of fat within lean meat is called:-

- Homogenization
- Curing
- Marbling
- None

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The colour of spores in Wirtz method is:-

- Pink
- Green
- Blue
- Red

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If milk is left open lactose is fermented first to produce acid. This is followed by proteolytic bacterial activity which increases the pH. Ultimately milk fats are degraded to produce rancidity. This is an example of:-

- Microbial antagonism
- Micro evaluation
- Interference competition
- Ecological succession

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Fishy flavor is due to:-

- Oleic acids
- Linoleic acids
- Linolenic acids
- Palmitic acids

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Liver is a rich source of vitamin:-

- Vitamin D
- Vitamin A
- Vitamin K
- Vitamin C

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Fat and alcohol with no calories:-

- Stanols
- Steroids
- Sterols
- Sterone

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Lipolysis of fat is mostly observed during:-

- Hydrogenation
- Deep fat frying
- Fat bloom
- All of the above

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Aluminium foil acts:-

- As a good barrier for light
- As a good barrier for oxygen
- As a good barrier for vapor
- All of the above

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Turbidostat and Chemostat are:-

- Continuous culture system
- Types of fermentor
- Type of sterilizer
- Instruments to enumerate the microbial cells

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Unit of mass velocity is:-

- Kg/hr
- Kg/m²hr
- Kg/m²
- Kg/m hr

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M line occurs in the centre of:-

- H-zone
- Z-line
- H-line
- B-zone

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Instant coffee is packed in flexible laminates of:-

- a) LDPE/Al foil/PET
- b) PET/Al foil/LDPE
- c) Metallized PET/LDPE
- d) Both (b) and (c)

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Aluminium foil act as:-

- As a good barrier for light
- As a good barrier for oxygen
- As a good barrier to vapour
- All of the above

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Starch used in frozen food should contain:-

- Amylose content does not make any difference
- Less amylose
- High amylose
- Less amylopectin

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Xanthan gum is a type of:-

- Exudate gum
- Sea weed gum
- Microbial gum
- Seed gum

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Eugenol is the principal component of:-

- coriander
- cassia
- cardamom
- clove

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Cellulose generally having a degree of polymerization of:-

- 20000
- 10000
- 2000
- 1000

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_____ catalyse oxidation/ reduction reactions which involve the transfer of electrons.

- Isomerase
- Lyases
- Oxido reductases
- Hydrolase

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Chemically caffeine is:-

- Carbohydrate
- Aminoacid
- Fatty acid
- Nucleotide

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Which of the following amino acids is considered as both ketogenic and glucogenic?

- Lysine
- Valine
- Tryptophan
- None of these

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Which of the following have carbohydrate as prosthetic group?

- Nucleoprotein
- Glycoprotein
- Chromoprotein
- Lipoprotein

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Which of the following processes changes liquid oils into semisolids and makes the oil less susceptible to oxidation and rancidity?

- hydrogenation
- fermentation
- oxidization
- rehydration

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DHA is:-

- ω -6 fatty acid
- ω - fatty acid
- ω -4 fatty acid
- ω -3 fatty acid

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The number of double bonds in Arachidonic acid:-

- 1
- 2
- 3
- 4

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An example of a transamination process is:-

- aspartate + α ketoglutarate = glutamate + oxaloacetate
- aspartate + hexanoic acid = glutamate + oxaloacetate
- glutamate = α -ketoglutarate + NH_3
- glutamate = hexanoic acid + NH_3

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Enzymes, vitamins and hormone can be classified into a single category of biological chemicals, because all of these:-

- Help in regulating metabolism
- Care conjugated proteins
- Enhance oxidative metabolism
- Are exclusively synthesized in body of a living organism

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Vegetable oils are rich in:-

- ω -5 fatty acids
- ω -4 fatty acids
- ω -3 fatty acids

- ω -6 fatty acids

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Nigerose is a:-

- Disaccharide
 Trisaccharide
 Polysaccharide
 Monosaccharide

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Which of the following is/are unsaturated fatty acids?

- Palmitoleic acid
 Oleic acid
 Linoleic acid
 All of these

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_____ is a non-protein organic substance which is dialyzable, thermo stable and loosely attached to the protein part which helps in enzyme activity.

- Coenzyme
 Activator
 Enzyme
 Prosthetic group

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The fats and oils are respectively rich in:-

- Saturated and unsaturated fatty acids
 Unsaturated fatty acids
 Saturated fatty acids
 None of these

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A glucogenic amino acid is one which is degraded to:-

- either acetyl CoA or acetoacetyl CoA
 pyruvate or citric acid cycle intermediates

- keto-sugars
- none of the above

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Which of the following is the best described glucogenic amino acid?

- Valine
- Lysine
- Tryptophan
- None of these

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Enzymes having slightly different molecular structure but performing identical activity are:-

- Holoenzymes
- Apoenzymes
- Isoenzymes
- Coenzymes

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Which of the following is a non-thermal method of food processing?

- Sterilization
- Pasterurization
- Pulse electric filed
- Canning

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The glycosidic bond:-

- a) in maltose is not hydrolyzed in lactose intolerant humans
- b) in sucrose is hydrolyzed by bees
- c) joins glucose and fructose to form sucrose
- d) both (b) and (c)

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With respect to the product life cycle, the _____ begins when the Company finds and develops a new-product idea.

- product development stage

- growth stage
- introduction stage
- maturity stage

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Which of the following best describes the first stage of the new-product development Process?

- Idea generation
- Business analysis
- Idea screening
- Concept development and testing

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Which of the following is not a disaccharide?

- Maltose
- Lactose
- Sucrose
- Mannose

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An example of phosphoprotein present in egg yolk is:-

- Avidin
- Ovovitellin
- Ovoalbumin
- Ovoglobulin

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Which one of the following is a group of proteolytic enzyme?

- Bromelin and Papain
- Callulase and myrosinase
- Phsophatase and chlorophyllase
- Maltase and Diastase

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A _____ is a detailed version of the idea stated in meaningful Consumer terms.

- product feature

- product image
- product idea
- product concept

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In which of the following all are polysaccharides:-

- Glycogen, sucrose and maltose
- Maltose, lactose and fructose
- Glycogen, cellulose and starch
- Sucrose, glucose and fructose

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The process of getting a group to think of unlimited ways to vary a product or solve a problem is:-

- concept test
- brainstorming
- screening
- focus group

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The course of a product's sales and profits over its lifetime is called:-

- the dynamic growth curve
- the product life cycle
- the adoption cycle
- the sales chart

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Dry heat brings changes to starch granules through a process known as:-

- Retrogradation
- Dextrinisation
- Crystallisation
- Gelatinization

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Products purchased frequently, immediately, and with a minimum of comparison and Buying effort are called:-

- consumer products
- shopping products
- convenience products
- specialty products

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In which one of the following enzymes, is copper necessarily associated as an activator:-

- Carbonic anhydrase
- Tyrosinase
- Trypsinase
- Lactic dehydrogenase

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Some enzymes require the presence of a non-protein substance if they are to catalyse a reaction. Which of the following terms is the best general term for such a substance?

- prosthetic group
- cofactor
- modulator
- co-enzyme

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Designing an initial marketing strategy for a new product based on the product Concept is called:-

- screening
- marketing strategy development
- product development
- business analysis

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Which of the following is not used as a fumigation agent?

- Potassium phosphides
- Methyl bromide
- EDB
- Aluminium phosphides

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ATP is:-

- Vitamin
- Nucleotide
- Enzyme
- Nucleic acid

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the most basic level of a product is called the:-

- fundamental product
- central product
- augmented product
- core product