

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
- ☐ Saccharophilic mould

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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 length 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 O_2 formed / gram of substrate feed
- ☐ Amount of CO_2 formed / gram of substrate feed
- ☐ Amount of CO_2 formed/ gram of O_2 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
- ☐ Endoplasmic reticulum
- ☐ Plasma membrane
- ☐ Nucleus

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Test used to determine most probable number of coliform 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
- ☐ Fluorescent microscope
- ☐ Electron transmit microscope
- ☐ Transmission Electron Microscope

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Llipie 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

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Wet bulb temperature is same as dew point temperature, the RH of air will be:-

- ☐ 50%
- ☐ 100%
- ☐ 0%
- ☐ 25%

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152 PU_2016_396_E

In CA storage, the ethylene scrubber uses which of the following oxidizing compound?

- ☐ Potassium permanganate
- ☐ Hydrogen chloride
- ☐ Hydrogen peroxide
- ☐ Nitric acid

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Spinach is rich in:-

- ☐ Vitamin E
- ☐ Vitamin A
- ☐ Vitamin B
- ☐ Vitamin C

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What are barges?

- ☐ A method of cocoa processing
- ☐ A method of cocoa shipment
- ☐ A variety of cocoa
- ☐ A by product of cocoa processing

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Highest unit of radiation is:-

- ☐ Kilo gray
- ☐ Megarad
- ☐ Rad

- ☐ Gray

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The decolorizer used in the case of flagella staining is:-

- ☐ Water
- ☐ Hexane
- ☐ Alcohol
- ☐ Calcium hydroxide

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188 PU_2016_396_E

In how many ways can 21 books on English and 19 books on Hindi be placed in a row on a shelf so that two books on Hindi may not be together?

- ☐ 1995
- ☐ 3990
- ☐ 1540
- ☐ 3672

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Addition of Hops in beer is done to:-

- ☐ Speedy maturation
- ☐ Enhance fermentation
- ☐ Impart the bitter taste
- ☐ Settle the yeast

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Which of the following fruit is climacteric?

- ☐ Lemon
- ☐ Apple
- ☐ Orange
- ☐ Melon

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Sedimentation coefficient of bacterial ribosome is:-

- ☐ 30
- ☐ 60

- ☐ 70
- ☐ 40

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For the laminar flow, the Reynolds number should be less than:-

- ☐ 2100
- ☐ 3100
- ☐ 5100
- ☐ 4100

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For the flow of fluid we need difference in:-

- ☐ Moisture content
- ☐ Force
- ☐ Concentration
- ☐ Pressure

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Hops are used in the manufacture of:-

- ☐ Brandy
- ☐ Whisky
- ☐ Wine
- ☐ Beer

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In canning industry, it is found that initial microbial load of mango pulp is 10^2 and it is to be decreased to 10^{-6} . If the decimal reduction time of microorganism at 121.1°C is 0.5 min. What should be the F°Value?

- ☐ 4 min
- ☐ 2 min
- ☐ 8 min
- ☐ 16 min

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Pekoe is:-

- ☐ Broken grade

- ☐ Leaf grade
- ☐ Method of rolling
- ☐ Unfermented tea

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Psychrometric chart is made for:-

- ☐ Any pressure
- ☐ One atmosphere
- ☐ Above one atmosphere
- ☐ Below one atmosphere

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

- ☐ 5%
- ☐ 10%
- ☐ 7.5%
- ☐ 0%

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The color of spores in wirtz method is:-

- ☐ Green
- ☐ Red
- ☐ Blue
- ☐ Pink

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What is ale?

- ☐ Fermented barley
- ☐ Type of beer
- ☐ Fermented corn
- ☐ Fermented carrot

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The temperature of milk droplets in spray drying is kept at:-

- ☐ 49-54 °C
- ☐ 65-70 °C
- ☐ 60-65 °C
- ☐ 54-60 °C

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Operating speed of ball mill must be less than:-

- ☐ Critical speed
- ☐ Normal speed
- ☐ Centrifugal speed
- ☐ Operating speed

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On planet korba, a solar blast has melted the ice caps on its equator. 9 years after the ice melts, tiny planetoids called echina start growing on the rocks. Echina grows in the form of circle, and the relationship between the diameter of this circle and the age of echina is given by the formula:-

$$d = 4\sqrt{t-9} \text{ for } t \geq 9$$

where d represents the diameter in mm and t the number of years since the solar blast. Jagan recorded the radius of some echina at a particular spot as 7mm. How many years back did the solar blast occur?

- ☐ 12.06
- ☐ 21.25
- ☐ 17
- ☐ 12.25

23 of 100

121 PU_2016_396_E

Green patches on the surface of meat is due to:-

- ☐ *Pseudomonas syncynea*
- ☐ *Chromobacterium lividum*
- ☐ *Cladosporium herbarum*
- ☐ *Pencillium expansum*

24 of 100

110 PU_2016_396_E

Method most suitable for sterilizing carbohydrate is:-

- ☐ Filtration
- ☐ Autoclave

- ☐ Arnold method
- ☐ Chemical method

25 of 100

187 PU_2016_396_E

Father is aged three times more than his son Ronit. After 8 years, he would be two and a half times of Ronit's age. After further 8 years, how many times would he be of Ronit's age?

- ☐ 2 3/4 times
- ☐ 2 times
- ☐ 2 3 times
- ☐ 1/2 times

26 of 100

163 PU_2016_396_E

Water content of apple and _____ are similar.

- ☐ Wheat
- ☐ Milk
- ☐ Cucumber
- ☐ Khoa

27 of 100

181 PU_2016_396_E

A number when divided by D leaves a remainder of 8 and when divided by 3D leaves a remainder of 21. What is the remainder left, when twice the number is divided by 3D?

- ☐ 42
- ☐ 3
- ☐ 13
- ☐ Cannot be determined

28 of 100

211 PU_2016_396_E

In freeze-drying the liquid phase occurs at a pressure above:-

- ☐ 1.7 mm
- ☐ 3.7mm
- ☐ 4.7mm
- ☐ 2.7mm

29 of 100

194 PU_2016_396_E

A hall is 15 m long and 12 m broad. If the sum of the areas of the floor and the ceiling is equal to the sum of the areas of four walls, the volume of the hall is:-

- ☐ 1200
- ☐ 900
- ☐ 1800
- ☐ 720

30 of 100

218 PU_2016_396_E

Bacteria prefer to use the codon CGA instead of AGA to code for Arginine. This is an example for _____.

- ☐ Second genetic code
- ☐ Allomers
- ☐ Nullomers
- ☐ Transcriptional decoding

31 of 100

170 PU_2016_396_E

HLB scale has the range of:-

- ☐ 0-20
- ☐ 0-56
- ☐ 0-100
- ☐ 0-14

32 of 100

115 PU_2016_396_E

Ropiness in bread is caused by:-

- ☐ *Geotrichum auranticum*
- ☐ *Serratia marcescens*
- ☐ *Saccharomyces cerevisiae*
- ☐ *Bacillus licheniformis*

33 of 100

195 PU_2016_396_E

A hollow iron pipe is 21 cm long and its external diameter is 8 cm. If the thickness of the pipe is 1 cm and iron weighs 8 g/cm^3 , then the weight of the pipe is:-

- ☐ 3.696 Kg
- ☐ 3.6 Kg
- ☐ 36 Kg
- ☐ 36.9 Kg

34 of 100

175 PU_2016_396_E

Natural toxicant in Potato:-

- ☐ Haemagglutennin
- ☐ Sulphurcontaing alkaloid
- ☐ Solanine
- ☐ Cyanide generating compound

35 of 100

189 PU_2016_396_E

In how many different ways can the letters of the word 'CORPORATION' be arranged so that the vowels always come together?

- ☐ 1440
- ☐ 5760
- ☐ 2880
- ☐ 5040

36 of 100

105 PU_2016_396_E

A chemical with sporicidal property is:-

- ☐ Alcohol
- ☐ Glutaraldehyde
- ☐ Quaternary ammonium compound
- ☐ Phenol

37 of 100

213 PU_2016_396_E

Rancidity will develop earliest in fat containing product prepared by:-

- ☐ Tray dryer
- ☐ Freeze-drying
- ☐ Fluidized bed dryer
- ☐ Spray drying

38 of 100

145 PU_2016_396_E

Canning also sometimes called as:-

- ☐ Sterilization
- ☐ Pasteurization
- ☐ Appertization
- ☐ Cold sterilization

39 of 100

147 PU_2016_396_E

Pressurized packed foods are called:-

- ☐ Aceituno
- ☐ Barges
- ☐ Aerosols
- ☐ Barofoods

40 of 100

122 PU_2016_396_E

The fishy flavor of fish is due to:-

- ☐ Methyl urea
- ☐ Diacetyl
- ☐ Trimethylamine oxide
- ☐ Trimethyl amine

41 of 100

116 PU_2016_396_E

pH of honey is:-

- ☐ 2.3 - 2.9
- ☐ 5.6 - 6.9
- ☐ 3.2 - 4.2
- ☐ 7.0 - 8.1

42 of 100

219 PU_2016_396_E

Which bean is used for extraction of gum?

- ☐ Cluster bean
- ☐ Hyacinth bean
- ☐ French bean
- ☐ Broad bean

43 of 100

123 PU_2016_396_E

The milk is pasteurized at 62.8° C for 30 min to eliminate:-

- ☐ *Mycobacterium tuberculosis*
- ☐ *Coxiella burnetti*
- ☐ *Listeria monocytogenes*
- ☐ *Callus cereus*

44 of 100

176 PU_2016_396_E

Creaming property of tea is attributed to the presence of:-

- ☐ Lactose
- ☐ Triglyceride
- ☐ Caffeine
- ☐ Theanine

45 of 100

193 PU_2016_396_E

The compound interest on Rs. 30,000 at 7% per annum is Rs. 4347. The period (in years) is:-

- ☐ 2
- ☐ 3
- ☐ 2.5
- ☐ 4

46 of 100

159 PU_2016_396_E

For crispiness RTE breakfast cereals are dried to:-

- ☐ 5-6%
- ☐ 2-4%
- ☐ 3-5%
- ☐ 1-2%

47 of 100

157 PU_2016_396_E

Calcium chloride can be used as:-

- ☐ Firing agent
- ☐ Firming agent
- ☐ Foaming agent
- ☐ Antiseptic

48 of 100

129 PU_2016_396_E

In coffee fermentation microorganism involved is:-

- ☐ *Leuconostoc mesenteroids*
- ☐ *Saccharomyces ceruvisiae*
- ☐ *Staphylococcus aureus*
- ☐ *Lactobacillus brevis*

49 of 100

139 PU_2016_396_E

Predominant antinutritional factor in raw soyabean:-

- ☐ Saponine
- ☐ Trypsin inhibitor
- ☐ Goitrogen
- ☐ Hemagglutenins

50 of 100

151 PU_2016_396_E

In canned fruit, major function of syrup is:-

- ☐ Preserve fruit
- ☐ Provide taste
- ☐ Conduction of heat
- ☐ Kill microorganism

51 of 100

212 PU_2016_396_E

Advantages of fluidized bed drying are:-

- ☐ Fast and uniform drying
- ☐ Can be used for dense and heavy products
- ☐ Complete removal of moisture
- ☐ Simple and can be done even by unskilled labor

52 of 100

182 PU_2016_396_E

One day Alice meets pal and byte in fairyland. She knows that pal lies on Mondays, Tuesdays and Wednesdays and tells the truth on the other days of the week byte, on the other hand, lies on Thursdays, Fridays and Saturdays, but tells the truth on the other days of the week. Now they make the following statements to Alice - pal. Yesterday was one of those days when I lie byte. Yesterday was one of those days when I lie too. What day is it?

- ☐ Tuesday
- ☐ Thursday
- ☐ Sunday
- ☐ Monday

53 of 100

140 PU_2016_396_E

The ribbon blender mix solids by:-

- ☐ Sedimentation
- ☐ Electrical shuffling
- ☐ Mechanical shuffling

- ☐ Centrifugation

54 of 100

171 PU_2016_396_E

Baume is the term used to express the strength of:-

- ☐ Sodium chloride
☐ Fat
☐ Alcohol
☐ Sugar

55 of 100

158 PU_2016_396_E

What is the moisture percentage to which wheat is soaked to give it optimum milling properties?

- ☐ 19%
☐ 16%
☐ 17%
☐ 18%

56 of 100

146 PU_2016_396_E

The lethal rate is reciprocal of:-

- ☐ Thermal death Time
☐ M-value
☐ Z- value
☐ F-Value

57 of 100

201 PU_2016_396_E

A room heater will cause the room air:-

- ☐ A decrease in absolute humidity
☐ An increase in absolute humidity
☐ A decrease in relative humidity
☐ No difference in relative humidity

58 of 100

133 PU_2016_396_E

Screening method depends primarily on:-

- ☐ Specific gravity of the particles
☐ Surface area of the particle
☐ Size of the particles

- ☐ Magnetic property of the particles

59 of 100

164 PU_2016_396_E

Tomato ketchups TSS should not be less than:-

- ☐ 25%
- ☐ 35%
- ☐ 39%
- ☐ 40%

60 of 100

205 PU_2016_396_E

A mixture of air and water is sensibly cooled. The specific humidity of the mixture will:-

- ☐ Decrease
- ☐ Increase
- ☐ Remain constant
- ☐ Require additional information for determination

61 of 100

249 PU_2016_396_M

Asbestos sheets of bag storage godown is applied _____ to prevent mould growth.

- ☐ Zinc sulphate
- ☐ Copper sulphate
- ☐ Sodium sulphate
- ☐ Magnesium sulphate

62 of 100

257 PU_2016_396_M

A basket centrifuge of 0.5 m diameter rotating with an rpm of 2000 develops a centrifugal constant of:-

- ☐ 203.87
- ☐ 1117.86
- ☐ 28.32
- ☐ 50.97

63 of 100

239 PU_2016_396_M

The purpose addition of edible oil and water to dhal during milling process is to improve:-

- ☐ Hardness
- ☐ Softness
- ☐ Increase shelf life

- ☐ Shine and color

64 of 100

248 PU_2016_396_M

Pressure drop in fluid flow through granular materials is best estimated by:-

- ☐ Burke-Plummer equation
- ☐ Ergun equation
- ☐ Fourier equation
- ☐ Blake-Kozney equation

65 of 100

237 PU_2016_396_M

In CFTRI process of pre-treatment to pulse milling, the dry heat treatment to pulses is given at:-

- ☐ 170 °C
- ☐ 90 °C
- ☐ 65 °C
- ☐ 120 °C

66 of 100

229 PU_2016_396_M

Communion means:-

- ☐ Leaching
- ☐ Distillation
- ☐ Extraction
- ☐ Size reduction

67 of 100

226 PU_2016_396_M

The Tyler-standard screen is based on standard opening of:-

- ☐ 48 mesh (0.2295 mm)
- ☐ 100 mesh (0.147 mm)
- ☐ 28 mesh (0.589 mm)
- ☐ 200 mesh (0.074 mm)

68 of 100

238 PU_2016_396_M

Modern flour mills for wheat milling are:-

- ☐ Roller type
- ☐ Under Runner type
- ☐ Attrition Type

- ☐ Disc Type

69 of 100

235 PU_2016_396_M

Oil content (Whole mass basis) in rice bran ranges between:-

- ☐ 8-10%
- ☐ 17-22 %
- ☐ 11-16 %
- ☐ 25-35 %

70 of 100

258 PU_2016_396_M

Trolley conveyors consist of an overhead _____ track with trolleys that are fastened together by chain.

- ☐ U-beam
- ☐ L-beam
- ☐ T-beam
- ☐ I-beam

71 of 100

246 PU_2016_396_M

Airy's theory is used to calculate lateral pressure exerted by grain in a:-

- ☐ Deep bin
- ☐ Shallow bin
- ☐ Medium bin
- ☐ Deep and shallow bin

72 of 100

245 PU_2016_396_M

In which regions of India, Morai type storage structures are used?

- ☐ Southern and Northern
- ☐ Western and Northern
- ☐ Eastern and Western
- ☐ Eastern and Southern

73 of 100

256 PU_2016_396_M

If D is the screw diameter and A is coefficient, the highest allowable rotational speed of a screw conveyor can be:-

- ☐ A/D
- ☐ A/D²

- ☐ D/A
- ☐ AD

74 of 100

236 PU_2016_396_M

Parboiling is _____ treatment.

- ☐ Hydrothermal
- ☐ Physical
- ☐ Chemical
- ☐ Thermal

75 of 100

225 PU_2016_396_M

Separation on the basis of roundness is accomplished by:-

- ☐ Indented cylinder separator
- ☐ Aspiration separator
- ☐ Roll separator
- ☐ Spiral separator

76 of 100

259 PU_2016_396_M

Centrifugal discharge is used in:-

- ☐ Screw (auger) conveyor
- ☐ Belt conveyor
- ☐ Chain conveyor
- ☐ Bucket elevator

77 of 100

228 PU_2016_396_M

Match the items under Group I with items under Group II in relation to pre-treatments.

Group I

- P. Ascorbic acid dip
- Q. Heat blanching
- R. Deaeration
- S. Rendering

Group II

1. Sogginess in fruits
2. Minimizes fruit oxidation
3. Melting of fat in meat
4. Removal of odours
5. Minimizes destruction of vitamin C

- ☐ P-1, Q-2, R-3, S-4
- ☐ P-3, Q-4, R-5, S-2
- ☐ P-2, Q1, R-5, S-3

- ☐ P-1, Q-3, R-4, S-5

78 of 100

227 PU_2016_396_M

Match the items under Group I with items under Group II.

Group I

- P. Threonine
- Q. Pyridoxine phosphate
- R. Xylose
- S. Oleic acid

Group II

- 1. Fatty acid
- 2. Sugar
- 3. Amino acid
- 4. Co-enzyme

- ☐ P-2, Q-1, R-4, S-3
- ☐ P-3, Q-4, R-2, S-1
- ☐ P-1, Q-2, R-3, S-4
- ☐ P-4, Q-3, R-1, S-2

79 of 100

255 PU_2016_396_M

Maximum inclination to carry food material with the belt conveyor is:-

- ☐ 400
- ☐ 100
- ☐ 300
- ☐ 200

80 of 100

247 PU_2016_396_M

Jensenn equation is related to:-

- ☐ Storage silo design
- ☐ Grain transportation system
- ☐ Size separation of grains
- ☐ Size reduction of particle

81 of 100

276 PU_2016_396_D

Oleic acid can be transferred into its trans form upon:-

- ☐ Hydrogenation
- ☐ Cooling
- ☐ Solidification
- ☐ Heating

82 of 100

267 PU_2016_396_D

Lemon is an example of:-

- ☐ Right circular cone
- ☐ Sphere
- ☐ Prolate spheroid
- ☐ Oblate spheroid

83 of 100

265 PU_2016_396_D

The specific gravity of skim milk is:-

- ☐ Higher than water
- ☐ Lower than water
- ☐ Same as whole milk
- ☐ Same as water

84 of 100

297 PU_2016_396_D

Turkey X disease is due to:-

- ☐ Aflatoxin
- ☐ Moniliformin
- ☐ Islanditoxin
- ☐ Citrinin

85 of 100

299 PU_2016_396_D

Adulteration of edible oil by mineral oil can be identified by:-

- ☐ Halman's test
- ☐ Holde's test
- ☐ Boudin's test
- ☐ Carl's test

86 of 100

298 PU_2016_396_D

Argemone oil is toxic due to presence of:-

- ☐ Argimorine
- ☐ Methyl cyanate
- ☐ Sanguinarine
- ☐ Eugenol

87 of 100

268 PU_2016_396_D

Which is not a part of plant layout?

- ☐ Process layout
- ☐ Location economics
- ☐ Product lay out
- ☐ Combination layout

88 of 100

286 PU_2016_396_D

Cereals are deficient in:-

- ☐ Methionine
- ☐ Lysine
- ☐ Valine
- ☐ Phenylalanine

89 of 100

278 PU_2016_396_D

The development of hydrogenation process is credited to French chemist:-

- ☐ Lohman
- ☐ Appart
- ☐ Sabatier
- ☐ Oldman

90 of 100

296 PU_2016_396_D

Which one is the final electron acceptor?

- ☐ Pyruvate
- ☐ NADP
- ☐ Cytochrome
- ☐ OAA

91 of 100

285 PU_2016_396_D

Calorimetric value of protein is:-

- ☐ 6.2 kcal/g
- ☐ 4 kcal/g
- ☐ 5.7 kcal/g
- ☐ 4.7 kcal/g

92 of 100

295 PU_2016_396_D

Hexokinase is inhibited by:-

- ☐ Glucose-6-phosphate
- ☐ ATP
- ☐ GTP
- ☐ Pyruvate

93 of 100

289 PU_2016_396_D

Bactomatic is a method to determine the bacterial:-

- ☐ Activity
- ☐ Size
- ☐ Reproduction
- ☐ Decimal point value

94 of 100

277 PU_2016_396_D

Rancidity is progressed through the formation of:-

- ☐ Carbenes
- ☐ Carboanions
- ☐ Free radicals
- ☐ Carbocations

95 of 100

266 PU_2016_396_D

The ratio of diameter of the largest inscribing circle to the diameter of the smallest circumscribing circle is called:-

- ☐ Roundness
- ☐ Trigonometry
- ☐ Sphericity
- ☐ Shape factor

96 of 100

275 PU_2016_396_D

In strecker degradation, during maillard reaction, the aminoacids usually react with:-

- ☐ Fat
- ☐ Schiffs base
- ☐ Glucose
- ☐ α - dicarbonyl compound

97 of 100

279 PU_2016_396_D

Rocky candy aroma is obtained when glucose reacts with:-

- ☐ Sulphuric acid
- ☐ Aspartic acid
- ☐ Lauric acid
- ☐ Citric acid

98 of 100

269 PU_2016_396_D

An industry having more than 10 regular workers is covered in:-

- ☐ Company act
- ☐ Factories act
- ☐ Wages act
- ☐ Labour laws

99 of 100

287 PU_2016_396_D

Chromanol ring is basic structure of:-

- ☐ Vitamin A
- ☐ Vitamin D
- ☐ Vitamin E
- ☐ Vitamin C

100 of 100

288 PU_2016_396_D

Wilson's disease is related to:-

- ☐ Calcium metabolism
- ☐ Fructose metabolism
- ☐ Iron metabolism
- ☐ Fat metabolism

Sr No.	MSc Food Science and Technology
1	Find the next term in the series: BMO, EOQ, HQS, ?
Alt1	KSU
Alt2	LMN
Alt3	SOV
Alt4	SOW

2	Choose word from the given options which bears the same relationship to the third word, as the first two bears: Misogamy: Marriage:: Misogyny:?
Alt1	Children
Alt2	Husband
Alt3	Relations
Alt4	Women

3	Select the lettered pair that has the same relationship as the original pair of words: Indolence : Beaver
Alt1	Elegance: Peacock
Alt2	Ferocity: Lamb
Alt3	Passivity: Cow
Alt4	Joviality: Hyena

4	Select the lettered pair that has the same relationship as the original pair of words: Man : Humanity
Alt1	Frame: Picture
Alt2	Scholar: Books
Alt3	Flowers: Fragrance
Alt4	Drop: Ocean

5	Choose the set that has the same relationship as in the original: Horse : Foal : Mare
Alt1	Sheep: lamb: Goat
Alt2	Lion: Cub: Den
Alt3	Man: Child: Woman
Alt4	Cat: Kitten: Puppy

6	Spot the defective segment from the following:
Alt1	I didn't expect
Alt2	this kind of treatment
Alt3	from your hands
Alt4	this morning

7	Many rural children go to school -----.
Alt1	by foot
Alt2	by walk
Alt3	on foot
Alt4	on their feet

8	----- is facing the threat of extinction.
Alt1	Tigers
Alt2	Tiger
Alt3	The tiger
Alt4	A tiger

9	Choose the option closest in meaning to the given word: TERSE
Alt1	concise
Alt2	curt
Alt3	rude
Alt4	poetic

10	Choose the antonymous option you consider the best: RETICENT
Alt1	communicative
Alt2	clamorous
Alt3	reserved
Alt4	dormant

11	In each of the following questions some statements are followed by two conclusions (i) and (ii). Read the statements carefully and then decide which of the conclusions follow beyond a reasonable doubt. Mark your answer as Statement: I am a Kashmiri Pandit and feel proud that Indira Gandhi belonged to the same community Conclusions: (i) Indira Gandhi is proud of being a Kashmiri Pandit (ii) All Kashmiri Pandits feel proud of Indira Gandhi
Alt1	If only conclusion (i) follows
Alt2	If only conclusion (ii) follows
Alt3	If neither conclusion (i) nor (ii) follows
Alt4	If both the conclusions follow

12	What value should come in place of question mark (?) in the following number series? 48, ?, 94, 123, 156, 193
Alt1	74
Alt2	65
Alt3	69
Alt4	77

13	If in a certain language CARROM is coded as BZQQNL, which word will be coded as HOUSE ?
Alt1	IPVTF
Alt2	GNTRD
Alt3	INVRF

Alt4	GPTID
------	-------

14	Teeth : Chew in the same way as
Alt1	Mind : Think
Alt2	Food : Taste
Alt3	Sweater : Heat
Alt4	Eyes : Flicker

15	The following information is given: Eight persons P, Q, R, S, T, U, V and W are sitting around a rectangular table in such a way that two persons sit on each of the four sides of the table facing the centre. Persons sitting on opposite sides are exactly opposite to each other. S faces North and sits exactly opposite W. T is on the immediate left to W. P and V sit on the same side. V is exactly opposite Q, who is on the immediate right of R. U is next to the left of S. Who is sitting opposite to P ?
Alt1	V
Alt2	S
Alt3	T
Alt4	R

16	There are 4 prime numbers written in ascending order. The product of the first three is 385, and that of the last three is 1001, Find the first number
Alt1	5
Alt2	11
Alt3	29
Alt4	19

17	Mean of the first 10 even numbers is
Alt1	12
Alt2	11
Alt3	14
Alt4	9

18	If you were to spell out the numbers, how far would you have to go before encountering the letter 'A'?
Alt1	91
Alt2	21
Alt3	51
Alt4	101

19	A man starts from his office and goes 5 Kms east, Then he turn to the left and again walks for 3 Kms, he turns left and walks 5 kms. At what distance is he from the starting point?
Alt1	3
Alt2	4
Alt3	6
Alt4	7

20	The first person is 100cm tall. Each subsequent person is 20% taller than the previous person. What is the Median height of 5 persons.
Alt1	173
Alt2	120
Alt3	144
Alt4	207

21	SI unit for is kelvin
Alt1	Luminous intensity
Alt2	Electric current
Alt3	Energy
Alt4	Temperature

22	Force required to slide one layer from another measures the
Alt1	Viscosity
Alt2	friction
Alt3	gravity
Alt4	surface tension

23	An object moving through liquid facing retarding force is called as
Alt1	viscosity
Alt2	friction
Alt3	drag force
Alt4	surface tension

24	Which of the following is not a method of heat transfer?
Alt1	Conduction
Alt2	Convection
Alt3	Condensation
Alt4	Radiation

25	Group of salt loving microbes are called
Alt1	Mesophiles
Alt2	Halophiles
Alt3	Psychrophiles
Alt4	Heterophiles

26	Fish hydrolysates are rich in
Alt1	Proteins
Alt2	Lipids
Alt3	Vitamins
Alt4	Minerals

27	Endospores are produced by only
Alt1	Gram positive bacteria
Alt2	Gram negative bacteria
Alt3	both of these

Alt4	none of these
------	---------------

28	Production of bacteriocin in food is considered as
Alt1	implicit factor
Alt2	intrinsic factor
Alt3	processing factor
Alt4	explicit factor

29	India is a largest producer of meat in the world.
Alt1	Sheep
Alt2	Goat
Alt3	Pig
Alt4	Buffalo

30	For the production of hygienic and safe meat, India primarily needs.....
Alt1	Modern abattoirs
Alt2	Proper animal breeding practices
Alt3	Proper feeding practices for animals
Alt4	Good systems for marketing of animals

31	The storage polysaccharide is
Alt1	Glucose
Alt2	Glycogen
Alt3	Glucagon
Alt4	Glycated Hb

32	Vitamin K is essential for
Alt1	Skin health
Alt2	Blood coagulation
Alt3	Normal metabolism
Alt4	Heart function

33	The major active ingredients in turmeric is
Alt1	Piperine
Alt2	Curcumin
Alt3	Capsaicin
Alt4	Gingerol

34	Co-factors of an enzyme :
Alt1	Block enzyme activity
Alt2	Assist enzyme in catalysis
Alt3	Enhance enzyme activity
Alt4	Increase the activation energy of the enzymatic reaction

35	Fats are _____ at room temperature
Alt1	Liquid
Alt2	Gaseous

Alt3	Solid
Alt4	Semi liquid

36	The principal buffering compounds in milk are
Alt1	Fat
Alt2	Lactose
Alt3	Salts and proteins
Alt4	Water

37	Casein in fresh raw milk is present in ----- form
Alt1	micellar
Alt2	globular
Alt3	solution
Alt4	insoluble

38	The enzyme used to detect hydrogen peroxide in milk is
Alt1	Lipase
Alt2	Proteinases
Alt3	Catalase
Alt4	Lactoperoxidase

39	Quantitative PCR (qPCR) is also called as
Alt1	Multiplex PCR
Alt2	Nested PCR
Alt3	Real-time PCR
Alt4	Touchdown PCR

40	Which fat soluble vitamin plays a major role in absorption of calcium and phosphorus?
Alt1	Vitamin A
Alt2	Vitamin D
Alt3	Vitamin E
Alt4	Vitamin K

41	Lipid oxidation during early stage is due to
Alt1	Free radicals
Alt2	Browning
Alt3	Lipoxygenase
Alt4	Processing

42	High pressure liquid chromatography is _____ technique.
Alt1	Separation
Alt2	novel
Alt3	Vacuum creating
Alt4	hi-tech

43	Cobalt – 60 and Cesium – 137 produce useful for food irradiation
Alt1	Gamma rays

Alt2	X rays
Alt3	Ultraviolet rays
Alt4	Infra red rays

44	Damage caused to proteins by irradiation of food includes
Alt1	Formation of nitrogen oxides
Alt2	Formation of actomyosin complex from actin and myosin
Alt3	Breakage of peptide bonds
Alt4	Formation of lipoprotein

45	Ecosapentaenoic acid (EPA) is
Alt1	Saturated fatty acid
Alt2	Omega-6 fatty acid
Alt3	Omega-3 fatty acid
Alt4	Essential amino acid

46	Fat provides _____ kcal of energy per gram.
Alt1	9 kcal
Alt2	7 kcal
Alt3	4 kcal
Alt4	5 kcal

47	Marmalades are made from
Alt1	Citrus
Alt2	Apples
Alt3	Strawberry
Alt4	Papaya

48	The term specific gravity is used to denote the ratio between the weight of a substance and the weight of an equal volume of
Alt1	Water
Alt2	Alcohol
Alt3	Chloroform

49	The efficiency of pasteurization of milk is tested by
Alt1	Plating for pathogens
Alt2	Alkaline phosphatase test
Alt3	Lipase test
Alt4	Organoleptic test

50	The chemical name for Vitamin C is _____
Alt1	Carotene
Alt2	Tocopherol
Alt3	Ascorbic acid
Alt4	Biotin

51	Vanaspathi is a _____ fat
----	---------------------------

Alt1	Monounsaturated
Alt2	Polyunsaturated
Alt3	Essential
Alt4	Trans

52	Fats/ lipids are transported in blood in combination with proteins in the form of _____.
Alt1	Lipoproteins
Alt2	Cholesterol
Alt3	Phytosterol
Alt4	Lecithin

53	Negative nutritional quality of meat includes
Alt1	High level of saturated fatty acids
Alt2	Low level of cholesterol
Alt3	Low level of sodium
Alt4	Poor supply of vitamins

54	Viscosity of ethanol at 30 °C is
Alt1	0.801
Alt2	1
Alt3	6
Alt4	6.29

55	The conversion factor for nitrogen to muscle protein is
Alt1	5.5
Alt2	5.8
Alt3	6.25
Alt4	6.75

56	Exposure of meat to high temperatures in canning imparts in meat.
Alt1	Rancid flavor
Alt2	Peasant flavor
Alt3	Sulphydryl flavor
Alt4	Meaty flavor

57	Lecithin is the most common _____
Alt1	Glycolipid
Alt2	Sulpholipid
Alt3	Phospholipid
Alt4	Aminolipids

58	Tetrahydrofolate is a co-enzyme of:
Alt1	Pyruvate dehydrogenase
Alt2	Acetyl CoA carboxylase
Alt3	Thymidylate synthase
Alt4	Cytochrome oxidase

59	The intake of PUFA should be _____ of energy intake.
Alt1	0-5%
Alt2	5-10%
Alt3	8-10%
Alt4	>20%

60	_____ is the only selenoprotein enzyme well studied for the biological role of selenium
Alt1	Xanthine oxidase
Alt2	Aldehyde oxidase
Alt3	Sulfite oxidase
Alt4	Glutathione peroxidase

61	Di sulfide bonds are formed between _____
Alt1	Side chain amino & carboxyl group
Alt2	two carboxylic groups
Alt3	Two amino groups
Alt4	two sulfur amino acids

62	Retinal is converted to retinol by
Alt1	Retinal dehydrogenase
Alt2	Retinol dehydrogenase
Alt3	Lipase
Alt4	Retinol esters

63	For the laminar flow, the Reynolds number should be less than
Alt1	2100
Alt2	3100
Alt3	5100
Alt4	4100

64	For the flow of fluid we need difference in
Alt1	moisture content
Alt2	force
Alt3	concentration
Alt4	pressure

65	Hops are used in the manufacture of
Alt1	brandy
Alt2	whisky
Alt3	wine
Alt4	beer

66	Operating speed of ball mill must be less than
Alt1	critical speed
Alt2	normal speed
Alt3	centrifugal speed
Alt4	operating speed

67	pH of honey is
Alt1	2.9
Alt2	5.6 - 6.9
Alt3	3.2 - 4.2
Alt4	7.0 - 8.1

68	Which bean is used for extraction of gum?
Alt1	cluster bean
Alt2	hyacinth bean
Alt3	french bean
Alt4	broad bean

69	Calcium chloride can be used as
Alt1	firing agent
Alt2	firring agent
Alt3	foaming agent
Alt4	antiseptic

70	Canning also sometimes called as
Alt1	sterilization
Alt2	pasteurization
Alt3	appertization
Alt4	cold sterilization

71	The ribbon blender mix solids by
Alt1	sedimentation
Alt2	electrical shuffling
Alt3	mechanical shuffling
Alt4	centrifugation

72	TSS for tomato ketchup should not be less than
Alt1	0.25
Alt2	0.35
Alt3	0.39
Alt4	0.4

73	Oil content (Whole mass basis) in rice bran ranges between
Alt1	8-10%
Alt2	17-22 %
Alt3	11-16 %
Alt4	25-35 %

74	Parboiling is a _____ treatment.
Alt1	hydrothermal
Alt2	physical
Alt3	chemical

Alt4	thermal
------	---------

75	Separation on the basis of roundness is accomplished by
Alt1	indented cylinder separator
Alt2	aspiration separator
Alt3	roll separator
Alt4	spiral separator

76	Jensenn equation is related to
Alt1	storage silo design
Alt2	grain transportation system
Alt3	size separation of grains
Alt4	size reduction of particle

77	Oleic acid can be transferred into its trans form upon:-
Alt1	hydrogenation
Alt2	cooling
Alt3	solidification
Alt4	heating

78	Spinach is rich in
Alt1	Vitamin E
Alt2	Vitamin A
Alt3	Vitamin B
Alt4	Vitamin C

79	Stokes law is used to find the following of a particle moving through a fluid.
Alt1	drag coefficient
Alt2	terminal velocity
Alt3	friction coefficient
Alt4	settling velocity

80	The removal of water from a food material by sublimation from the frozen state to the vapour state is known as
Alt1	cryogenic freezing
Alt2	freeze concentration
Alt3	freeze drying
Alt4	heat pump drying

81	The product derived out of milk after removal of cream is known as
Alt1	butter milk
Alt2	whey
Alt3	skimmed milk
Alt4	curd

82	In thermal processing of food destruction of microorganism is governed by an equation having the following order.
----	---

Alt1	zero
Alt2	first
Alt3	second
Alt4	third

83	The specific gravity of milk will increase with the
Alt1	removal of cream and water
Alt2	addition of cream
Alt3	addition of water
Alt4	removal of water

84	A cyclone separator is used
Alt1	for separating dust particles from air
Alt2	for mixing solid in air
Alt3	for controlling air flow rate
Alt4	for mixing gas with air

85	Separation of dissolved solids from by application of pressure is
Alt1	filtration
Alt2	vacuum filtration
Alt3	membrane separation
Alt4	pressing

86	Heat removing capacity of one tonne refrigerator is _____ kcal /min.
Alt1	300
Alt2	50
Alt3	3000
Alt4	600

87	COP is always _____ unity in vapour compression refrigerators.
Alt1	less than
Alt2	equal to
Alt3	more than
Alt4	none of the above

88	In sieve analysis the screen openings are maintained _____ times of the previous screen opening.
Alt1	square
Alt2	square root
Alt3	cube
Alt4	cube root

89	Hammer mill works on the principle of
Alt1	centrifugal
Alt2	impact
Alt3	abrasive
Alt4	gravitational

90	_____ is a mechanical separation method
Alt1	distillation
Alt2	evaporation
Alt3	centrifugal separation
Alt4	crystallization

91	Temperature of boiling of a solution is _____ under reduced pressure
Alt1	increased
Alt2	decreased
Alt3	equal
Alt4	unpredictable

92	Water activity for ice at 0oC is
Alt1	0
Alt2	0.5
Alt3	0.75
Alt4	1.0

93	In spray drier particles are separated by
Alt1	cyclone
Alt2	hydro cyclone
Alt3	centrifuge
Alt4	none of these

94	The rate of respiration of paddy increases with increase in
Alt1	moisture content
Alt2	volume
Alt3	mass
Alt4	place of storage

95	Fats are insoluble in
Alt1	solvent
Alt2	preservatives
Alt3	enzymes
Alt4	water

96	The angle of repose of food grains is in the range of
Alt1	10-20°
Alt2	25-35°
Alt3	50-70°
Alt4	above 75°

97	The thermal properties of food grains are
Alt1	specific heat
Alt2	thermal conductivity
Alt3	both

Alt4	none
------	------

98	This is the heat required to raise the temperature of the grain by one degree
Alt1	specific heat
Alt2	thermal conductivity
Alt3	thermal diffusivity
Alt4	None

99	Size reduction increases the
Alt1	surface area
Alt2	particle size
Alt3	reduces particle size
Alt4	increases volume

100	For the Black body the reflectivity and absorptivity are _____
Alt1	same
Alt2	different
Alt3	none
Alt4	higher

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Examination: M.Sc. Food Science and Technology

Section 1 - Section 1

Question No.1

4.00

Bookmark ☐

The conjugated tetrapyrroles are known as

- ☐ Xanthophyll
- ☐ Polyols
- ☐ Porphyrins
- ☐ Pheophytin

Question No.2

4.00

Bookmark ☐

A man complete a journey in 10 hours. He travels first half of the journey at the rate of 21 km/hr and second half at the rate of 24 km/hr. Find the total journey in km.

- ☐ 250
- ☐ 220
- ☐ 230
- ☐ 224

Question No.3

4.00

Bookmark ☐

The semi-fluid material within the muscle cell is called

- ☐ Sarcoplasm
- ☐ Haemoglobin
- ☐ Myoglobin
- ☐ Blood

Question No.4

4.00

Bookmark ☐

Disruption of fat globules into much smaller fat globules is defined as?

- ☐ Centrifugation
- ☐ Standardization
- ☐ Homogenization
- ☐ Chilling

Question No.5

4.00

Bookmark ☐

Which of the following is not an essential amino acid?

- ☐ Phenylalanine
- ☐ Alanine
- ☐ Threonine
- ☐ Valine

Question No.6

4.00

Bookmark ☐

Milk is an _____

- ☐ Oil in water emulsion
- ☐ Oil in water suspension
- ☐ Water in oil emulsion
- ☐ Water in oil suspension

Question No.7

4.00

Bookmark ☐

Vacuum packaging is also called as

- ☐ Sous-vide packaging
- ☐ Clear film packaging
- ☐ High pressure packaging
- ☐ Shrink packaging

Question No.8

4.00

Bookmark ☐

Which of the following in foods serve as fuel molecules?

- ☐ Protein
- ☐ Lipids
- ☐ Oil
- ☐ Salt

Question No.9

4.00

Bookmark ☐

White or creamish color of milk is due to which of the following pigment?

- ☐ Xanthophyll
- ☐ Carotenoids
- ☐ Tannins
- ☐ Flavonoids

Question No.10

4.00

Bookmark ☐

“AGMARK Act 1937” comes under

- ☐ Directorate of Marketing and Inspection
- ☐ Department of Legal Metrology
- ☐ Department of Consumer Affairs, Govt. of India
- ☐ Department of Agriculture & Cooperation

Question No.11

4.00

Bookmark ☐

Salmonella and *Shigella* cause disease to the consumers by:

- ☐ Neither infection nor intoxication
- ☐ Either infection or intoxication
- ☐ Intoxication
- ☐ Infection

Question No.12

4.00

Bookmark ☐

Which of the following protein contributes elasticity to dough?

- ☐ Albumin
- ☐ Globulin
- ☐ Gliadin
- ☐ Glutenin

Question No.13

4.00

Bookmark ☐

The Queen of spices is _____

- ☐ Chilly
- ☐ Cardamom
- ☐ Pepper
- ☐ Ginger

Question No.14

4.00

Bookmark ☐

Which acid is pectin made from?

- ☐ Polygalacturonic acid
- ☐ Gluconic acid
- ☐ Uronic acid
- ☐ Pectic acid

Question No.15

4.00

Bookmark ☐

Rickets in children is caused due to deficiency of

- ☐ Vitamin D
- ☐ Vitamin A
- ☐ Vitamin K
- ☐ Vitamin E

Question No.16

4.00

Bookmark ☐

Statements: All dogs are tall, All cats are tall.

Conclusion:

I.All dogs are cat

II. All cats are dogs

- ☐ If neither I nor II follows
- ☐ If either I or II follows
- ☐ If only conclusion II follows
- ☐ If only conclusion I follows

Question No.17

4.00

Bookmark ☐

The method of preventing or reducing pathogens in food products by combining many methods like high temperature during processing, low temperature during storage, increasing acidity etc is called

- ☐ Stumbling technology
- ☐ Mixed preservation approach
- ☐ High pressure food preservation
- ☐ Hurdle technology

Question No.18

4.00

Bookmark ☐

Browning of cut surfaces of fruits and vegetables is caused by _____ enzyme

- ☐ Catalase
- ☐ Polyphenol oxidase
- ☐ Phenolase
- ☐ Phenol oxidase

Question No.19

4.00

Bookmark ☐

13, 35, 57, 79, 911, ?

- ☐ 1113
- ☐ 1311
- ☐ 1315
- ☐ 1112

Question No.20

4.00

Bookmark ☐

An Oil Press is called _____

- ☐ Expresser
- ☐ Boiler
- ☐ Expeller
- ☐ None of the mentioned

Question No.21

4.00

Bookmark ☐

Which of the following international standards deal with food safety management?

- ☐ ISO 31000
- ☐ ISO 18000
- ☐ ISO 22000
- ☐ ISO19000

Question No.22

4.00

Bookmark ☐

The process of raising or lowering the percent of fat in milk or cream to a desired standard is called?

- ☐ Standardization
- ☐ Fortification
- ☐ Addition
- ☐ Enrichment

Question No.23

4.00

Bookmark ☐

Which of the following amino acid is absent in cereals?

- ☐ Phenylalanine
- ☐ Valine
- ☐ Leucine
- ☐ Methionine

Question No.24

4.00

Bookmark ☐

Choose the correct meaning of the italicized idiom.

The father was right in giving a *piece of his mind* to the son.

- ☐ Speaking cheerfully
- ☐ Speaking sharply
- ☐ Speaking sadly
- ☐ Speaking kindly

Question No.25

4.00

Bookmark ☐

Oil/Lemon/Vinegar + Spices applied to meat is called _____

- ☐ Coating
- ☐ Fermenting
- ☐ Emulsifying
- ☐ Marinating

Question No.26

4.00

Bookmark ☐

Study the following information carefully and answer the question below it

In a family, Isha is the granddaughter of Asha. Deepa is the mother of Hansa. Charan is the son of Anand. Radha is the mother of Isha. Deepa is the sister of Vinod and Charan. Nagesh has two children, Gita and Hansa. Emesh is the only grandson in the family. Charan is not married. Radha is the daughter-in-law of Anand.

Who is the daughter of Anand?

- ☐ Hansa
- ☐ Deepa
- ☐ Isha
- ☐ Gita

Question No.27

4.00

Bookmark ☐

A substance intentionally added that affects the nature and quality of food is called:

- ☐ Food poison
- ☐ Food adulterant
- ☐ Food contaminant
- ☐ Food material

Question No.28

4.00

Bookmark ☐

The principle source of the cultivated grapes throughout the world is

- ☐ *Vitisrotundifolia*
- ☐ Sushruta
- ☐ *Vitisvinifera*
- ☐ *Vitislabrusca*

Question No.29

4.00

Bookmark ☐

At isoelectric pH, an amino acid will exist as

- ☐ Anion
- ☐ Cation
- ☐ Zwitter ion
- ☐ Polyatomic ion

Question No.30

4.00

Bookmark ☐

Which of the following is not a Rabi crop?

- ☐ Paddy
- ☐ Wheat
- ☐ Gram
- ☐ Mustard

Question No.31

4.00

Bookmark ☐

Which of the following is essential fatty acid?

- ☐ Palmitic acid
- ☐ Oleic acid
- ☐ Stearic acid
- ☐ Arachidonic acid

Question No.32

4.00

Bookmark ☐

Legumes are deficient in which of the following amino acid?

- ☐ Glycine
- ☐ Leucine
- ☐ Lysine
- ☐ Methionine

Question No.33

4.00

Bookmark ☐

Ovomucoid (which cannot be coagulated by heat and is glycoprotein) is present in:

- ☐ Egg-white
- ☐ Egg yolk
- ☐ Soya bean
- ☐ Meat

Question No.34

4.00

Bookmark ☐

Statement: Among all the articles, Prices of laptops show the highest decline from June 2017 to December 2017.

Assumptions:

I. Comparative prices of all articles were available from June 2017 to December 2017.

II. The prices laptops were higher in the first 6 months than the last 6 months.

- ☐ If both I and II are implicit
- ☐ If neither I nor II is implicit
- ☐ If only assumption II is implicit
- ☐ If only assumption I is implicit

Question No.35

4.00

Bookmark ☐

Based on the information given, answer the below question.

1. A,B,C,D,E and F are travelling in a bus.
2. There are two reporters, two mechanics, one photographer and one writer in the group.
3. Photographer A is married to D who is a reporter.
4. The writer is married to B who is of the same profession as that of F.
5. A,B,C,D are two married couples and no one in this belong to the same profession.
6. F is the brother of C.

Which of the following is the pair of mechanics?

- ☐ AF
- ☐ Cannot be determined
- ☐ CE
- ☐ BF

Question No.36

4.00

Bookmark ☐

AR enamel coated cans are used for

- ☐ Carbonated beverages
- ☐ Meat products
- ☐ Peas
- ☐ Citrus fruits

Question No.37

4.00

Bookmark ☐

UHT processing of milk is carried out at _____

- ☐ 140°C for 5sec
- ☐ 145°C for 4sec
- ☐ 140°C for 4sec
- ☐ 145°C for 5sec

Question No.38

4.00

Bookmark ☐

Chillies are pungent due to the presence of the compound _____

- ☐ Eugenol
- ☐ Capsicum
- ☐ Capsaicin
- ☐ Chlorophyll

Question No.39

4.00

Bookmark ☐

Which of the following in a jelly/ jam is responsible for the formation of gel?

- ☐ Pectin
- ☐ Acid
- ☐ Sugar
- ☐ Water

Question No.40

4.00

Bookmark ☐

Choose the best antonym of the italicized word.

Keerthi did not like her husband being *obsequious* to his boss.

- ☐ defiant
- ☐ gentle
- ☐ indifferent
- ☐ courteous

Question No.41

4.00

Bookmark ☐

Which of these is not a Medium Acid Foods (pH 5.3-4.5)

- ☐ Spinach
- ☐ Asparagus
- ☐ Tomato
- ☐ Pumpkin

Question No.42

4.00

Bookmark ☐

Which of the following is being used as oxidizing agent to improve the baking quality of flour?

- ☐ Ethyl bromide
- ☐ Bromate
- ☐ Calcium propionate
- ☐ Tricalcium phosphate

Question No.43

4.00

Bookmark ☐

Which protein is present in corn?

- ☐ Gluten
- ☐ Oryzenin
- ☐ Albumin
- ☐ Zein

Question No.44

4.00

Bookmark ☐

Which of the following has the lowest glycaemic content?

- ☐ Banana
- ☐ Bread
- ☐ Ice cream
- ☐ Milk

Question No.45

4.00

Bookmark ☐

Which of the following vitamin is abundantly found in animal materials like meat, milk and fish?

- ☐ Riboflavin
- ☐ Vitamin C
- ☐ Vitamin A
- ☐ Vitamin E

Question No.46

4.00

Bookmark ☐

Tests for proper pasteurization are based on the activity of which enzyme?

- ☐ Lactase
- ☐ Diastase
- ☐ Catalase
- ☐ Phosphatase

Question No.47

4.00

Bookmark ☐

Study the following information carefully and answer the question below it

- (i) There is a group of five persons- A, B, C, D and E
- (ii) One of them is manual scavenger, one is sweeper, one is watchman, one is human scarecrow and one is grave-digger
- (iii) Three of them – A, C and grave-digger prefer tea to coffee and two of them – B and the watchman prefer coffee to tea
- (iv) The human scarecrow and D and A are friends to one another but two of these prefer coffee to tea.
- (v) The manual scavenger is C's brother

Who is a sweeper?

- ☐ A
- ☐ C
- ☐ E
- ☐ D

Question No.48

4.00

Bookmark ☐

If BAT= 40, AT= 20 then CAT= ?

- ☐ 43
- ☐ 60
- ☐ 50
- ☐ 80

Question No.49

4.00

Bookmark ☐

Lyophilization is also known as:

- ☐ Quick freezing
- ☐ Vacuum drying
- ☐ Freeze drying
- ☐ Sublimation

Question No.50

4.00

Bookmark ☐

Anthocyanins are stable at which of the following pH?

- ☐ Independent of pH
- ☐ Acidic pH
- ☐ Neutral pH
- ☐ Basic pH

Question No.51

4.00

Bookmark ☐

Oleic acid is

- ☐ Oligosaturated fatty acid
- ☐ Saturated fatty acid
- ☐ Polyunsaturated fatty acid
- ☐ Monounsaturated fatty acid

Question No.52

4.00

Bookmark ☐

FAO/WHO recommends an intake of _____mg of calcium per day for an adult.

- ☐ 900 mg
- ☐ 600-800 mg
- ☐ 400-500 mg
- ☐ 130-300 mg

Question No.53

4.00

Bookmark ☐

Bajra is also called as

- ☐ Pearl millet
- ☐ Finger millet
- ☐ Little millet
- ☐ Foxtail millet

Question No.54

4.00

Bookmark ☐

The aromatic volatile components of spices are called _____

- ☐ Spice Fat
- ☐ Spice Gel
- ☐ Spice Paste
- ☐ Spice Oil

Question No.55

4.00

Bookmark ☐

Marshmallow is which of the following product

- ☐ Confectionary
- ☐ Dairy
- ☐ Meat
- ☐ Bakery

Question No.56

4.00

Bookmark ☐

Yoghurt is made using which strain of bacteria:

- ☐ *Lactobacillus bulgaricus*
- ☐ *Lactobacillus plantarum*
- ☐ *Lactobacillus acidophilus*
- ☐ *Lactobacillus casei*

Question No.57

4.00

Bookmark ☐

If Priya was selected, she _____a good surgeon.

- ☐ can make
- ☐ will make
- ☐ would have made
- ☐ would make

Question No.58

4.00

Bookmark ☐

Protein content of cow milk is

- ☐ 3.50%
- ☐ 5%
- ☐ 6%
- ☐ 2.50%

Question No.59

4.00

Bookmark ☐

AGMARK was established in

- ☐ 1997
- ☐ 1967
- ☐ 1957
- ☐ 1937

Question No.60

4.00

Bookmark ☐

Which of the following statement is false?

- ☐ Biological Value of plant sources is more than animal sources
- ☐ Food energy is the amount of energy available from food through respiration
- ☐ Fats have the maximum amount of food energy
- ☐ Biological Value of egg white is 100 that means almost the entire amount of nitrogen in egg white can be absorbed and used by the body

Question No.61

4.00

Bookmark ☐

In sugarcane, sugar is stored in:

- ☐ Leaves
- ☐ Roots
- ☐ Fruit
- ☐ Stem

Question No.62

4.00

Bookmark ☐

The following tests are used to check the efficiency of pasteurization of milk, except for _____

- ☐ Methylene blue reduction test
- ☐ Phosphatase test
- ☐ Coliform count
- ☐ Standard plate count

Question No.63

4.00

Bookmark ☐

Which vitamin is the example of sugar acids?

- ☐ Vitamin E
- ☐ Vitamin C
- ☐ Vitamin D
- ☐ Vitamin A

Question No.64

4.00

Bookmark ☐

Choose the missing term:FLP, INS,LPV, ?

- ☐ VXZ
- ☐ UXZ
- ☐ ORY
- ☐ SYZ

Question No.65

4.00

Bookmark ☐

Which of the following is the most economic source of food carbohydrates?

- ☐ Fruits
- ☐ Cereal grains
- ☐ Vegetables
- ☐ Soya bean

Question No.66

4.00

Bookmark ☐

Bitterness in beer is due to the presence of _____

- ☐ Betalins
- ☐ Phenolic compounds
- ☐ Tannins
- ☐ Hops

Question No.67

4.00

Bookmark ☐

Which of the following is a non-reducing sugar?

- ☐ Lactose
- ☐ Maltose
- ☐ Sucrose
- ☐ Glucose

Question No.68

4.00

Bookmark ☐

Protein content of egg is

- ☐ 40-50%
- ☐ 11-12 %
- ☐ 20-25 %
- ☐ 5-10 %

Question No.69

4.00

Bookmark ☐

Identify the adverb in the following sentence:

We started early in order to see the sunrise.

- ☐ to see
- ☐ early
- ☐ in order
- ☐ started

Question No.70

4.00

Bookmark ☐

Apsychrophilic halophile would be amicrobe that prefers

- ☐ Cold temperature and increased pressure
- ☐ Cold temperature and increased amounts of salt
- ☐ Warm temperature and increased amounts of acid
- ☐ Cold temperature and the absence of oxygen

Question No.71

4.00

Bookmark ☐

Fruits and vegetables contain around _____ % of water.

- ☐ 40
- ☐ 82
- ☐ 65
- ☐ 90

Question No.72

4.00

Bookmark ☐

Bitterness in oranges is due to

- ☐ Naringinase
- ☐ Limonoids
- ☐ Naringin
- ☐ Limonene

Question No.73

4.00

Bookmark ☐

Only after food has been dried _____

- ☐ that is should be stored for later consumption
- ☐ should be stored for later consumption
- ☐ should it be stored for later consumption
- ☐ it should be stored for later consumption

Question No.74

4.00

Bookmark ☐

Fenny is made from

- ☐ Custard apple
- ☐ Pineapple
- ☐ Apple
- ☐ Cashew apple

Question No.75

4.00

Bookmark ☐

What are Sequestrants?

- ☐ Added for colour
- ☐ They are added to keep the food stable
- ☐ They keep the food oxidized
- ☐ Form a complex ion with metals like copper, iron etc

Question No.76

4.00

Bookmark ☐

Iodine value measures

- ☐ Amount of carbon present
- ☐ Degree of unsaturation
- ☐ Number of iodine present
- ☐ Degree of saturation

Question No.77

4.00

Bookmark ☐

Microorganism associated with the preparation of sauerkraut?

- ☐ *Lactobacillus acidophilus*
- ☐ *Lactobacillus bulgaricus*
- ☐ *Lactobacillus plantarum*
- ☐ *Saccharomyces cerevisiae*

Question No.78

4.00

Bookmark ☐

Fish is rich in which fatty acid?

- ☐ Omega-6 fatty acid
- ☐ Linoleic acid
- ☐ Omega-3 fatty acid
- ☐ Linolenic acid

Question No.79

4.00

Bookmark ☐

Which of the following is/ class-I preservative?

- ☐ Calcium propionate
- ☐ Bromate
- ☐ Sorbic acid
- ☐ Sugar

Question No.80

4.00

Bookmark ☐

For inhibition of sprouting _____ kGy dose of irradiation is used

- ☐ 0.1-0.2
- ☐ 0.5-5
- ☐ 0.001-0.002
- ☐ 0.3-0.9

Question No.81

4.00

Bookmark ☐

Minimum total soluble solids of jam is

- ☐ 65%
- ☐ 70%
- ☐ 55%
- ☐ 60%

Question No.82

4.00

Bookmark ☐

During one's first few months in a new culture, one should learn the manners that are customary and _____.

- ☐ the language that is spoken there
- ☐ to be speaking language
- ☐ the spoken there language
- ☐ the language that is speaking

Question No.83

4.00

Bookmark ☐

Gluten is viscous and elastic in nature and is combination of

- ☐ Albumin and globulin
- ☐ Globulin and gliadin
- ☐ Gliadin and glutenin
- ☐ Glutenin and starch

Question No.84

4.00

Bookmark ☐

Cabbage, cauliflower, knol-knol, brussel sprouts, broccoli are:

- ☐ Root crops
- ☐ Cole crops
- ☐ Leafy vegetables
- ☐ Fruit vegetables

Question No.85

4.00

Bookmark ☐

Study the following information carefully and answer the question below it:

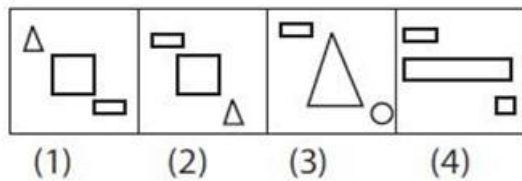
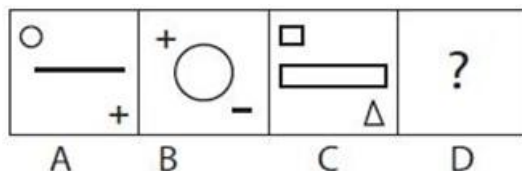
Aasha, Bhuvnesh, Charan, Danesh, Ekta, Farhan, Ganesh and Himesh are sitting around a circle, facing the centre. Aasha sits fourth to the right of Himesh while second to the left of Farhan. Charan is not the neighbour of Farhan and Bhuvnesh. Danesh sits third to the right of Charan. Himesh never sits next to Ganesh.

Three of the following are alike in a certain way based on their positions in the seating arrangement and so form a group. Which is the one that does not belong to that group?

- ☐ DaneshCharan
- ☐ Himesh Farhan
- ☐ BhuvneshDanesh
- ☐ Ganesh Ekta

Question No.86

4.00

Bookmark ☐

- ☐ 3
☐ 2
☐ 4
☐ 1

Question No.87

4.00

Bookmark ☐

Prolamins are a class of proteins that are soluble in

- ☐ Water
☐ Dilute alkali soluble
☐ Salt solution
☐ Dilute alcohol soluble

Question No.88

4.00

Bookmark ☐

Which of the following is added to fats and fat-containing substances to retard oxidation?

- ☐ Antioxidant
☐ Preservative
☐ Emulsifier
☐ Curing agent

Question No.89

4.00

Bookmark ☐

Milk solids without fat are known as?

- ☐ Solid not fat
☐ Solids none fat
☐ Solid never fat
☐ Solidified neutral fat

Question No.90

4.00

Bookmark ☐

Chicory is obtained from which of the following part of the plant?

- ☐ Petals
☐ Root
☐ Leaf
☐ Stem

Question No.91

4.00

Bookmark ☐

Choose the best synonym of the italicized word.

The security arrangements made for the visiting dignitary were *impeccable*.

- ☐ grand
- ☐ elaborate
- ☐ flawless
- ☐ tight

Question No.92

4.00

Bookmark ☐

Pasta products are prepared from

- ☐ Hard wheat
- ☐ Buckwheat flour
- ☐ Durum wheat
- ☐ Soft wheat

Question No.93

4.00

Bookmark ☐

Which of the following is the most sweetest sugar?

- ☐ fructose
- ☐ lactose
- ☐ sucrose
- ☐ maltose

Question No.94

4.00

Bookmark ☐

Which of the following methods pertaining to wheat milling refers to reduction of moisture content in the wheat?

- ☐ Separation of endosperms
- ☐ Wheat Conditioning
- ☐ Cleaning
- ☐ Flour formation

Question No.95

4.00

Bookmark ☐

Which of the following is a climacteric fruit?

- ☐ Strawberries
- ☐ Grapes
- ☐ Apple
- ☐ Oranges

Question No.96

4.00

Bookmark ☐

Choose the correct meaning to the italicized idiom.

Vijay does not see *eye to eye* with me in this matter.

- ☐ To obtain suitable punishment
- ☐ To have same opinion
- ☐ To give a correct decision
- ☐ To have the same eyesight

Question No.97

4.00

Bookmark ☐

Oxytocin and Vasopressin are examples of:

- ☐ Alkaline
- ☐ Peptide hormones
- ☐ Glutathione
- ☐ Anserine

Question No.98

4.00

Bookmark ☐

Which of the following is the general formula for carbohydrates?

- ☐ $C_{m-1}(H_2O)_n$
- ☐ $C_m(H_2O)_{n+1}$
- ☐ $C_{m+1}(H_2O)_n$
- ☐ $C_m(H_2O)_n$

Question No.99

4.00

Bookmark ☐

In the following question, the first two words (given in italics) have a definite relationship. Choose one word out of the given four alternatives which will fill the blank space and show the same relationship with the third word as between the first two.

Orange is to *Peel* as *Tooth* is to?.....

- ☐ Joints
- ☐ Gums
- ☐ Brush
- ☐ Enamel

Question No.100

4.00

Bookmark ☐

Which of the following terms refers to the amount of protein absorbed by the body from a food source?

- ☐ Reference pattern
- ☐ Limiting Value
- ☐ None of the mentioned
- ☐ Biological Value