

PU Ph D Food Science and Nutrition

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161 PU_2015_152

Among the following, which is best maturity index for Grape?

- ☐ Colour
- ☐ TSS
- ☐ Shape
- ☐ Size

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The first crop plant genome sequenced:-

- ☐ Cotton
- ☐ Rice
- ☐ Tobacco
- ☐ Maize

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165 PU_2015_152

Which is the richest dietary source of n-3 long chain polyunsaturated fatty acids?

- ☐ salmon
- ☐ soyabean
- ☐ flax seed
- ☐ beef

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185 PU_2015_152

Foods that have a pH>5.3 are considered to be _____.

- ☐ high-acid foods
- ☐ acid foods
- ☐ low-acid foods
- ☐ medium-acid foods

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_____ is the ingredient that imparts a unique color and flavor to cured meat products.

- ☐ Sodium chloride
- ☐ Sodium citrate
- ☐ Sodium nitrite

- ☐ Sodium nitrate

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Which of the following enzyme(s) is/are required for lactose fermentation?

- ☐ Transacetylase
- ☐ β -galactosidase
- ☐ Galactosidepermease
- ☐ All of these

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Which of the following statements about ATP-binding cassette (ABC) proteins is incorrect?

- ☐ ATP-binding cassette (ABC) proteins have ATP-binding transmembrane domains
- ☐ ATP-binding cassette (ABC) proteins have ATP-binding cytoplasmic domains
- ☐ The multidrug resistance protein (MDR protein) is an ATP-binding cassette (ABC) protein
- ☐ A number of genetic diseases are associated with deficiencies in ATP-binding cassette (ABC) proteins

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Which of the following best describes the polysaccharide amylose?

- ☐ α 1,4-O- α -linked poly-D-mannose
- ☐ α 1,4-O- β -linked poly-D-glucose
- ☐ α 1,4-O- α -linked poly-D-glucose
- ☐ an alternating 1,4-O- α/β -linked poly-D-glucose

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Why cannot fatty acids be converted into glucose in starvation?

- ☐ Acetyl CoA cannot be converted into pyruvate
- ☐ Fatty acids are esterified to triacylglycerols
- ☐ Fatty acids are transported on albumin which interferes with their metabolism
- ☐ Fatty acids are oxidised in mitochondria and glucose is synthesised in the cytosol

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Where do precursor T-lymphocytes develop into fully competent but not yet activated T- cells?

- ☐ The spleen
- ☐ The thymus gland

- ☐ The lymph nodes
- ☐ The bone marrow

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101 PU_2015_152

The effectiveness of many chemical preservative depends primarily on the food:-

- ☐ Water content
- ☐ pH
- ☐ Temperature
- ☐ Acidity

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133 PU_2015_152

Liver is the largest gland associated with several functions. Which one of the following is stated incorrect?

- ☐ Makes all the cholesterol that human body needs
- ☐ Secrete hormone called gastrin
- ☐ Stores glucose as glycogen
- ☐ Manufactures bile, converts the amino group to urea

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111 PU_2015_152

Syntrophism is a type of:-

- ☐ Mutalism
- ☐ Parasitism
- ☐ Synergism
- ☐ Commensalism

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Which of the following is not a function of folate:-

- ☐ Purine synthesis
- ☐ Conversion of tryptophan into niacin
- ☐ Conversion of serine into glycine
- ☐ Pyrimidine synthesis

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201 PU_2015_152

Which of the following statements is false with respect to an enzyme's ability to catalyse a reaction?

- ☐ An enzyme binds reactants such that they are positioned correctly and can attain their transition-state configurations

- ☐ An enzyme allows the reaction to go through a less stable transition state than would normally be the case
- ☐ An enzyme provides a reaction surface and a suitable environment for the reaction to take place
- ☐ An enzyme can weaken bonds in reactants through the binding process

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Fats of fish are readily digestible because they are:-

- ☐ Rich in unsaturated fats
- ☐ Rich in saturated fats
- ☐ Digestibility has no relation with saturation of fat
- ☐ Lipoxidase enzymes

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The chief spoilage organisms on smoked fish are:-

- ☐ (a) Molds
- ☐ (b) Bacteria
- ☐ (c) Both (a) and (b)
- ☐ (d) Fungi

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Of the estimated 10,000 products introduced each year approximately_____ percent will survive in the marketplace.

- ☐ 1
- ☐ 50
- ☐ 75
- ☐ 26

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By using _____ the microbial species introduced for fermentation can be controlled.

- ☐ a mother culture
- ☐ natural contamination
- ☐ a starter culture
- ☐ back slopping

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143 PU_2015_152

Which of the following cell types or systems is not part of an innate immune response to a pathogen?

- ☐ The inflammatory response
- ☐ Natural killer cells
- ☐ Cytotoxic T-lymphocytes
- ☐ Phagocytes

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Which of the following statements about SDS polyacrylamide gel electrophoresis is correct?

- ☐ Proteins are solubilized but not denatured when separated by SDS polyacrylamide gel electrophoresis
- ☐ SDS polyacrylamide gel electrophoresis separates proteins on the basis of charge
- ☐ SDS polyacrylamide gel electrophoresis separates proteins on the basis of size
- ☐ Wanted proteins can be tested for their biological activity after separation by SDS polyacrylamide gel electrophoresis

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Regarding gastro-intestinal function:-

- ☐ Distension of the ileum stimulates gastric motility
- ☐ Total gastrectomy leads to malabsorption of vitamin B₁₂
- ☐ The presence of large amounts of fat in the chyme will accelerate gastric emptying
- ☐ Aldosterone inhibits the absorption of sodium and water by the large intestine

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Lecithins are composed of:-

- ☐ Glycerol + Fatty acids + Phosphoric acid + Choline
- ☐ Glycerol + Fatty acids + Phosphoric acid + Betaine
- ☐ Glycerol + Fatty acids + Phosphoric acid + Serine
- ☐ Glycerol + Fatty acids + Phosphoric acid + Ethanolamine

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Identify the strongest form of intermolecular bonding that could be formed involving the residue of the amino acid serine.

- ☐ ionic bond
- ☐ hydrogen bond
- ☐ van der Waals interactions
- ☐ none of the above

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The red or pink color of the fish is generally caused from the growth of:-

- ☐ *Sarcina*
- ☐ *Micrococcus* or *Bacillus species*
- ☐ *Molds* or *yeasts*
- ☐ All of these

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A food that can be stored at room temperature for a prolonged or indefinite time period with minimal quality deterioration is said to be _____.

- ☐ room stable
- ☐ shelf superior
- ☐ shelf stable
- ☐ room superior

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Process lethality at a specified temperature is a multiple of:-

- ☐ Z-value
- ☐ Final concentration of microbes
- ☐ Decimal reduction time
- ☐ Initial concentration of microbes

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HACCP is an acronym that stands for _____.

- ☐ Have A Cup of Coffee and Pray
- ☐ Hazard Analysis and Critical Control Point
- ☐ Hazard Analysis and Critical Command Program
- ☐ Hazard Analysis and Critical Control Program

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Milk undergoes a process called _____ that is intended to break down fat globules so they are smaller and more uniform in size.

- ☐ emulsification
- ☐ encapsulation
- ☐ homogenization

- ☐ pasteurization

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Which of the following reactions constitutes an 'oxidative decarboxylation'?

- ☐ The conversion of pyruvate into lactate
- ☐ The conversion of pyruvate into acetyl CoA
- ☐ The conversion of lactate into pyruvate
- ☐ The conversion of pyruvate into oxaloacetate

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The water content (as a percentage of total body mass) of an adult human male is:-

- ☐ Slightly less than that of an adult female
- ☐ Around 60% total body weight
- ☐ The same as that of a newborn baby
- ☐ Is mainly due to the volume of the blood

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E. coli O157:H7 is thought to have acquired enterohemorrhagic genes from:-

- ☐ *Bacillus*
- ☐ *Shigella*
- ☐ *Campylobacter*
- ☐ *Clostridium*

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The first transgenic plant to be produced:-

- ☐ Cotton
- ☐ Maize
- ☐ Tobacco
- ☐ Rice

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116 PU_2015_152

Curacin A is a potent anti-tumour agent obtained from a marine:-

- ☐ *Aspergillus*
- ☐ Cyanobacterium
- ☐ *Actinomyces*

☐ Corol reef

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Mostly dry fruit are rich in:-

☐ Carbohydrates

☐ Fats

☐ Vitamins

☐ Protein

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_____ is a fructosan.

☐ Cellulose

☐ Inulin

☐ Glycogen

☐ Agar

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Bovine group A rotavirus contain:-

☐ ds DNA

☐ ss DNA

☐ ss RNA

☐ ds RNA

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146 PU_2015_152

Which is an important function of cholesterol in cell membranes

☐ It allows polar substances to pass through the membrane

☐ It stabilises the structure of mammalian membranes

☐ It increases the fluidity of the membrane at 37°C

☐ It acts as a fluidity barrier in bacterial membranes

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Which factor is responsible for inhibition enzymatic process during feedback?

☐ Substrate

☐ Enzymes

☐ Temperature

- ☐ End product

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To determine the amount of free water available for microorganisms to grow in a food product, _____ is measured.

- ☐ water concentration
- ☐ water activity
- ☐ moisture content
- ☐ relative humidity

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Which of the following statements is incorrect regarding transport proteins?

- ☐ They serve to carry polar molecules across the hydrophobic cell membrane
- ☐ They are required to transport hydrophobic steroids across cell membranes
- ☐ They are present in cell membranes
- ☐ They are required to transport amino acids across cell membranes

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Chemically leavened dough uses _____ as a leavening agent.

- ☐ steam
- ☐ baking powder
- ☐ yeast
- ☐ air

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In a normal healthy individual with a total lung capacity of 6 litres:-

- ☐ The functional residual capacity would be about 2 litres
- ☐ The FE_{V1} would be equivalent to about 1.5 litres
- ☐ The tidal volume at rest is about 1 litre
- ☐ The expiratory reserve volume at rest would be about 2 litres

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Vitamin B₁ is stable in acid, unstable in aqueous solutions of PH more than:-

- ☐ 4.5
- ☐ 5.0

- ☐ 4.0
- ☐ 3.5

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Which of the following foods cannot be effectively frozen?

- ☐ lettuce
- ☐ carrots
- ☐ broccoli
- ☐ cabbage

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209 PU_2015_152

A subject with a body weight of 65 kg was injected with 10 ml of a 1% (w/v) solution of Evans Blue. After 10 min, the blood was sampled and found to contain 0.037 mg/ml of the dye. What is the plasma volume?

- ☐ 5 litres
- ☐ 0.27 litres
- ☐ 2.70 litres
- ☐ 27 litres

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Pantothenic acid has a molecule of pantoic acid that is linked with:-

- ☐ b-cysteine
- ☐ phosphate
- ☐ b-alanine
- ☐ b-methionine

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Which of the following terms describes organism that derives in cold?

- ☐ Psychrophiles
- ☐ Thermophiles
- ☐ Mesophiles
- ☐ Aerophiles

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Which of the following is NOT a type of food processing?

- ☐ Cold processing

- ☐ Irradiation
- ☐ Rehydration
- ☐ Fermentation

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The best source of salt tolerant gene:-

- ☐ Sea anemones
- ☐ Mangroves
- ☐ Mussels
- ☐ Fishes

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_____ is responsible for the bright cherry red color of ground beef.

- ☐ Metmyoglobin
- ☐ Oxymyoglobin
- ☐ Myoglobin
- ☐ Dinitrosohemochromogen

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_____ is a structural homopolysaccharide.

- ☐ Hyaluronic acid
- ☐ Inulin
- ☐ Starch
- ☐ Chitin

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Histidine is degraded to to α -ketoglutarate and is described as a:-

- ☐ Gluco amino acid
- ☐ Glucogenic amino acid
- ☐ Keto-gluco acid
- ☐ Ketogenic amino acid

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Bitterness in peach is due to:-

- ☐ Sugar

- ☐ Hydrocyanin
- ☐ Prunasin acid
- ☐ Malic acid

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Primary step in protein purification includes:-

- ☐ Homogenization
- ☐ Differential centrifugation
- ☐ Solubilisation
- ☐ All of these

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_____ percent of the iodine in the body is present in the thyroid gland where it is used in the synthesis of several thyroid hormones.

- ☐ 50
- ☐ 80
- ☐ 60
- ☐ 70

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Which of the following statements about nicotinamide adenine dinucleotide (NAD⁺) is correct?

- ☐ NAD⁺ is a prosthetic group for several dehydrogenases
- ☐ NAD⁺ is the initial electron donor in many metabolic oxidation reactions
- ☐ NAD⁺ is the initial electron acceptor in many metabolic oxidation reactions
- ☐ NADH is the initial electron acceptor in many metabolic oxidation reactions

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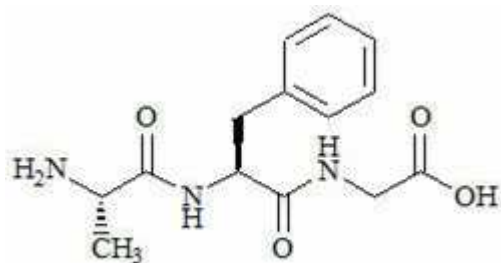
Maximum density of water is at a temperature of:-

- ☐ 7°C
- ☐ -7°C
- ☐ 0°C
- ☐ 4°C

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205 PU_2015_152

Identify the correct name for the following peptide:-



- ☐ L-alanyl-glycyl-L-phenylalanine
- ☐ L-alanyl-L-phenylalanyl-glycine
- ☐ glycyl-L-phenylalanyl-L-alanine
- ☐ L-phenylalanyl-L-alanyl-glycine

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Desmosine is an unusual amino acids found in:-

- ☐ Actin
- ☐ Elastin
- ☐ Myosin
- ☐ Troponin

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232 PU_2015_152

What mechanism is responsible for movements of eukaryotic cilia and flagella:-

- ☐ Dynein moving on microtubules
- ☐ Kinesin moving on microfilaments
- ☐ Myosin moving on microfilaments
- ☐ Dynein moving on microfilaments

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244 PU_2015_152

Sodium or potassium meta bi sulphate is added to crushed grapes to:-

- ☐ enhance the flavouring compound
- ☐ check the undesirable organisms
- ☐ maintain pH
- ☐ all of the above

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245 PU_2015_152

Which of the following is not the immunomagnetic particle?

- ☐ Polyacrolein/ iron sulphate particles
- ☐ Polystyrene paramagnetic microparticle
- ☐ Polyesterene/divenyl- benzene
- ☐ Dynabeads

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231 PU_2015_152

Fluorescent microscope is based on the ability of certain molecules to:-

- ☐ Observe light of a constant wavelength
- ☐ Observe light of a given wavelength & then emit light of short wavelength
- ☐ Observe light of a given wavelength & then emit light of longer wavelength
- ☐ Observe light of many different wavelength

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230 PU_2015_152

Cyanobacteria differ from purple and green photosynthetic bacteria because:-

- ☐ They use H_2S as an electron donor
- ☐ They produce oxygen during photosynthesis
- ☐ They have a membrane enclosed nucleus
- ☐ They do not require light

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233 PU_2015_152

Three dimensional images of the surface of the cells could be visualized through:-

- ☐ Scanning Electron Microscope
- ☐ Compound Microscope
- ☐ Transmission Electron Microscope
- ☐ Fluorescent Microscope

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243 PU_2015_152

Which substrate is used in the fermentation of citric acid?

- ☐ Beet molasses
- ☐ Sucrose
- ☐ Starch hydrolysate
- ☐ All of these

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241 PU_2015_152

Maximum size of foreign DNA that can be inserted into an insertion vector is:-

- ☐ 18 kb
- ☐ 50 kb
- ☐ 35 kb
- ☐ 27 kb

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248 PU_2015_152

Most viral capsids have:-

- ☐ 16 faces
- ☐ 08 faces
- ☐ 20 faces
- ☐ 12 faces

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249 PU_2015_152

NaCl can acts as:-

- ☐ (a) antagonist at optimal concentrations
- ☐ (b) synergistically if added in excess of optimum level
- ☐ (c) Both (a) and (b)
- ☐ (d) None of the above

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Hemicelluloses are:-

- ☐ Polymer of cellulose
- ☐ Isomers of cellulose
- ☐ Polymer of Talose
- ☐ Derivatives of cellulose

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242 PU_2015_152

Cosmids lack:-

- ☐ origin of replication
- ☐ genes coding for viral proteins
- ☐ marker genes coding for replication
- ☐ cleavage site for the insertion of foreign DNA

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Which statement is true of glucokinase?

- ☐ It has a lower K_m for glucose than does hexokinase
- ☐ It catalyses the phosphorylation of fructose
- ☐ It is inhibited by glucose 6 phosphate
- ☐ It is found in the liver

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228 PU_2015_152

Which of the following contributes nitrogen atoms to both purine and pyrimidine:-

- ☐ Aspartate
- ☐ Carbomoyl phosphate
- ☐ Glutamine
- ☐ Carbon di oxide

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240 PU_2015_152

Which of the following is not true for the thermal resistance of the bacterial cells?

- ☐ Higher optimal and maximal temperatures for growth, higher the resistance
- ☐ Bacteria that clump considerably or form capsules are difficult to kill
- ☐ Cocci are usually more resistant than rods
- ☐ Cells low in lipid content are harder to kill than other cells

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The spindle forms in the:-

- ☐ S phase
- ☐ G_2 phase
- ☐ M phase
- ☐ G_1 phase

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225 PU_2015_152

Heterotrophic Enzymes are:-

- ☐ Have same V_{max} but different K_m values
- ☐ Modified by their substrate concentration
- ☐ Different Isoenzymes
- ☐ Stimulated or inhibited by an effector or modulator molecule

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247 PU_2015_152

The major protein in corn is:-

- ☐ Zein
- ☐ Hordenin
- ☐ Glutenin
- ☐ Oryzenin

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226 PU_2015_152

In pentose phosphate pathway:-

- ☐ Only the C1 carbon of glucose is oxidized to CO_2
- ☐ All the carbons of glucose are oxidized to CO_2
- ☐ C_4 and C_5 of glucose are oxidized to CO_2
- ☐ No decarboxylation occurs

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229 PU_2015_152

Plastocyanin is a mobile electron carrier between:-

- ☐ Oxygen evolving complex and PS11
- ☐ Cytochrome bf complex and PS1
- ☐ PS1 and ferridoxin
- ☐ PS11 and Cytochrome bf complex

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291 PU_2015_152

The % Daily Value is based on a _____ calorie diet.

- ☐ 2000
- ☐ 2500
- ☐ 3000
- ☐ 3500

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270 PU_2015_152

Allosteric enzymes have modulators for:-

- ☐ Activation only
- ☐ Inhibition only
- ☐ Both activation and inhibition
- ☐ Reduction in activation energy

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296 PU_2015_152

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

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

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273 PU_2015_152

ELISA test is used for:-

- ☐ Protein testing
- ☐ Purity testing
- ☐ Separate viral RNA
- ☐ Isolate DNA sequence

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263 PU_2015_152

Which of the following enzyme is not protein in nature?

- ☐ Trypsin
- ☐ Hexokinase
- ☐ Ribozyme
- ☐ None of the above

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278 PU_2015_152

Which of the following is called as the Anthony's fire?

- ☐ Aflatoxin infection
- ☐ Botulism
- ☐ Fumonisin infection
- ☐ Ergotism

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271 PU_2015_152

At temperature near freezing point, the enzymes are:-

- ☐ Inactivated
- ☐ Activated
- ☐ Slightly activated
- ☐ Denatures

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262 PU_2015_152

The net yield of ATPs in complete oxidation of glucose in aerobic respiration is:-

- ☐ 8
- ☐ 40
- ☐ 38
- ☐ 6

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294 PU_2015_152

Aflatoxin M is found in:-

- ☐ Milk
- ☐ Groundnut
- ☐ Wheat
- ☐ Soybean

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260 PU_2015_152

Fiske and Rao method is used for the estimation of:-

- ☐ Pectin
- ☐ Phosphorous
- ☐ Pentathonic acid
- ☐ Phytates

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274 PU_2015_152

Which one yield maximum energy?

- ☐ Anaerobic respiration
- ☐ Glycolysis
- ☐ Aerobic respiration
- ☐ Krebs Cycle

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292 PU_2015_152

Water functions in the body to:-

- ☐ Serve as a medium for chemical reactions
- ☐ Dissolve oxygen
- ☐ Induce glycogen
- ☐ Moderate metabolism

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295 PU_2015_152

Roquefortine is:-

- ☐ Bacterial toxin
- ☐ Antinutritional factor
- ☐ A fermented product
- ☐ Mycotoxin

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277 PU_2015_152

End product of β -oxidation of fatty acids is:-

- ☐ Acetyl co A
- ☐ CO_2 and H_2O
- ☐ Acetone
- ☐ ATP

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Salivary pH is:-

- ☐ 3.5
- ☐ 9.4
- ☐ 7.1
- ☐ 5.6

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293 PU_2015_152

A calorie is the amount of energy required to raise _____ of water one degree _____.

- ☐ 1 pound, Centigrade
- ☐ 1 ounce, Fahrenheit
- ☐ 1 gram, Centigrade
- ☐ 1 kilo, Fahrenheit

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Palatinose is isomer of sucrose and differ from it having:-

- ☐ β -1,6-glycosidic bond
- ☐ α -1,6-glycosidic bond
- ☐ β -1,2-glycosidic bond
- ☐ α -1,4-glycosidic bond

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Enzymes functional in cells are called:-

- ☐ Apoenzymes
- ☐ Isoenzymes
- ☐ Endoenzymes
- ☐ Exoenzymes

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Blocking enzyme action through blocking its active site is:-

- ☐ Competitive inhibition
- ☐ Allosteric inhibition
- ☐ Feedback inhibition
- ☐ Non competitive inhibition

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A reduced compound is:-

- ☐ NADH
- ☐ ADP
- ☐ NAD
- ☐ FAD

Examination: **Ph.D. Food Science and Nutrition****Section 1 - Section 1****Question No.1**

4.00

Bookmark ☐

According to WHO the cut off point for anemia in adults is

- ☐ 10mg/dl
- ☐ 11mg/dl
- ☐ 13mg/dl
- ☐ 12mg/dl

Question No.2

4.00

Bookmark ☐

Edema is seen in _____ deficiency

- ☐ Fat
- ☐ Energy
- ☐ Carbohydrates
- ☐ Protein

Question No.3

4.00

Bookmark ☐

Mold species involved in flavor characteristics of surface ripened cheeses

- ☐ Penicillium camembertii
- ☐ Geotrichum candidum
- ☐ Aspergillus oryzae
- ☐ Debaryomyces hansenii

Question No.4

4.00

Bookmark ☐

An example for proteolytic enzyme is

- ☐ Lipase
- ☐ Pepsin
- ☐ Insulin
- ☐ Amylase

Question No.5

4.00

Bookmark ☐

Acid base balance is maintained by

- ☐ Stomach
- ☐ Gall bladder
- ☐ Brain
- ☐ Kidney

Question No.6

4.00

Bookmark ☐

The temperature found in cellar storage is about _____ °C

- ☐ 5
- ☐ 0
- ☐ 10
- ☐ 15

Question No.7

4.00

Bookmark ☐

Nephritis is caused due to repeated infections of

- ☐ Streptococcus
- ☐ Yeasts
- ☐ E coli
- ☐ Salmonella

Question No.8

4.00

Bookmark ☐

Food borne illness due to a neurotoxin produced in the food:

- ☐ Salmonellosis
- ☐ Listeriosis
- ☐ Shigellosis
- ☐ Botulism

Question No.9

4.00

Bookmark ☐

Insulin is secreted by

- ☐ α -cells of pancreas
- ☐ δ -cells of pancreas
- ☐ β -cells of pancreas
- ☐ γ -cells of pancreas

Question No.10

4.00

Bookmark ☐

An example of simple protein is

- ☐ Albumin
- ☐ Lecithin
- ☐ Glycoprotein
- ☐ Peptides

Question No.11

4.00

Bookmark ☐

Approximately _____ % of fruits and vegetables are wasted annually

- ☐ 30-40
- ☐ 20-30
- ☐ 10-20
- ☐ 40-50

Question No.12

4.00

Bookmark ☐

Mixed vegetable puree is an example of _____ diet

- ☐ Normal
- ☐ Clear fluid
- ☐ Soft
- ☐ Full liquid

Question No.13

4.00

Bookmark ☐

Species in this genus tend to be radiation resistant:

- ☐ *Micrococcus*
- ☐ *Staphylococcus*
- ☐ *Deinococcus*
- ☐ *Listeria*

Question No.14

4.00

Bookmark ☐

The deficiency of _____ causes pernicious anaemia.

- ☐ Pyridoxine
- ☐ Riboflavin
- ☐ Cyanocobalamin
- ☐ Thiamine

Question No.15

4.00

Bookmark ☐

12 men can complete a piece of work in 4 days, while 15 women can complete the same work in 4 days. 6 men start working on the job and after working for 2 days, all of them stopped working. How many women should be put on the job to complete the remaining work, if it is to be completed in 3 days?

- ☐ 13
- ☐ 15
- ☐ 14
- ☐ 10

Question No.16

4.00

Bookmark ☐

An example of invisible fat is

- ☐ Butter
- ☐ Ghee
- ☐ Dry coconut
- ☐ Vanaspathi

Question No.17

4.00

Bookmark ☐

During winter, the poor children _____ around a makeshift fire to keep themselves warm.

- ☐ tucked
- ☐ elbowed
- ☐ huddled
- ☐ grouped

Question No.18

4.00

Bookmark ☐

Ozone depletion in the stratosphere will cause

- ☐ Increased incidence of skin cancer
- ☐ Forest fires
- ☐ Global warming
- ☐ None

Question No.19

4.00

Bookmark ☐

Only source of galactose is

- ☐ Milk
- ☐ Grapes
- ☐ Apple
- ☐ Malted Ragi

Question No.20

4.00

Bookmark ☐

Protein calories in a balanced diet should be _____ % of total calories

- ☐ 40-50
- ☐ 50-60
- ☐ 20-25
- ☐ 10-12

Question No.21

4.00

Bookmark ☐

How long would it take to reduce 10^9 *Bacillus stearothermophilus* to 1 at 121°C, (Dr = 5.8 min):

- ☐ 23.8 min
- ☐ 20.4 min
- ☐ 13.6 min
- ☐ 46.4 min

Question No.22

4.00

Bookmark ☐

Gram-positive cocci used in the manufacture of yogurt

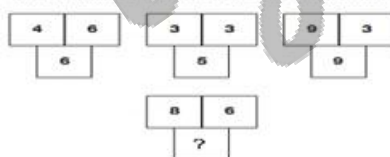
- ☐ *Leuconostoc mesenteroides* subsp. *Cremoris*
- ☐ *Brevibacterium linens*
- ☐ *Streptococcus salivarius* subsp. *Thermophilus*
- ☐ *Lactobacillus acidophilus*

Question No.23

4.00

Bookmark ☐

Which number replaces the question mark?



- ☐ 9
- ☐ 8
- ☐ 11
- ☐ 10

Question No.24

4.00

Bookmark ☐**Statement:** Difficult questions need diagram for solving.**Assumptions:**

- I. The students are not intelligent.
- II. Such questions cannot be solved.
 - ☐ If neither I nor II is implicit
 - ☐ If only assumption I is implicit
 - ☐ If only assumption II is implicit
 - ☐ If both I and II are implicit

Question No.25

4.00

Bookmark ☐

Protein deficiency leads to

- ☐ Undernutrition
- ☐ Overnutrition
- ☐ Kwashiorkar
- ☐ Marasmus

Question No.26

4.00

Bookmark ☐

Nissl granules are found in

- ☐ Nerve cell
- ☐ Brain
- ☐ Hepatic cells
- ☐ Nephron

Question No.27

4.00

Bookmark ☐

World food day is celebrated on

- ☐ 16th October
- ☐ 16th August
- ☐ 16th November
- ☐ 16th September

Question No.28

4.00

Bookmark ☐

Bile juice is essential for digestion of

- ☐ Protein
- ☐ Fat
- ☐ Carbohydrate
- ☐ Calcium

Question No.29

4.00

Bookmark ☐

Ribosome is center (site) for

- ☐ Glucose synthesis
- ☐ Protein synthesis
- ☐ Lipid synthesis
- ☐ Respiration

Question No.30

4.00

Bookmark ☐**Statement:** Vitamin E tablets improve the blood circulation and keep the complexion glowing.**Assumptions :**

- I. People like glowing complexion
 II. Complexion becomes dull in the absence of circulation
- ☐ If only assumption I is implicit
 - ☐ If neither I nor II is implicit
 - ☐ If both I and II are implicit
 - ☐ If only assumption II is implicit

Question No.31

4.00

Bookmark ☐

Type of diet to be prescribed for uric acid and cysteine stone is

- ☐ Low oxalate diet
- ☐ High fat diet
- ☐ Acid ash diet
- ☐ Alkali ash diet

Question No.32

4.00

Bookmark ☐

Metabolic rate increases in

- ☐ Obesity
- ☐ Diabetes
- ☐ Liver diseases
- ☐ Fever

Question No.33

4.00

Bookmark ☐

Prevalence of Bitot Spot to call it a public health problem is

- ☐ >0.10 %
- ☐ >0.05 %
- ☐ >0.01 %
- ☐ >0.50 %

Question No.34

4.00

Bookmark ☐

Essential amino acid limiting in cereals is

- ☐ Lysine
- ☐ Methionine
- ☐ Tyrosine
- ☐ Glycine

Question No.35

4.00

Bookmark ☐

Protein present in maize is

- ☐ Albumin
- ☐ Gluten
- ☐ Zein
- ☐ Keratin

Question No.36

4.00

Bookmark ☐

Cholera is caused by

- ☐ Saccharomyces cerevisiae
- ☐ Mycobacterium tuberculosis
- ☐ Staphylococci typhi
- ☐ Vibrio cholera

Question No.37

4.00

Bookmark ☐Choose the synonym of the italicized word. Vanita bore the pain with great *fortitude*.

- ☐ resilience
- ☐ defiance
- ☐ soreness
- ☐ indifference

Question No.38

4.00

Bookmark ☐

Clear fluid diet if planned properly is nutritionally

- ☐ Clear fluid diet should not be planned
- ☐ Inadequate
- ☐ Adequate
- ☐ Grossly inadequate

Question No.39

4.00

Bookmark ☐

Only incomplete animal protein is

- ☐ Gelatin
- ☐ Zein
- ☐ Glycogen
- ☐ Keratin

Question No.40

4.00

Bookmark ☐The D Value for *Staphylococcus aureus* would be higher in:

- ☐ Cream
- ☐ Whole milk
- ☐ Whey
- ☐ Skim milk

Question No.41

4.00

Bookmark ☐

If ROSE is coded as 6821, CHAIR as 73456, and PREACH as 961473, what will be the code for SEARCH?

- ☐ 216437
- ☐ 217364
- ☐ 123746
- ☐ 214673

Question No.42

4.00

Bookmark ☐

Normal blood pressure _____ mmHg

- ☐ 100/80
- ☐ 130/40
- ☐ 120/80
- ☐ 90/120

Question No.43

4.00

Bookmark ☐

I sincerely _____ the inconvenience caused to you because of my delay.

- ☐ regret about
- ☐ regret
- ☐ regret of
- ☐ regret on

Question No.44

4.00

Bookmark ☐

T-Lymphocytes first mature in

- ☐ Spleen
- ☐ Thymus
- ☐ Liver
- ☐ Pancreas

Question No.45

4.00

Bookmark ☐

The unit of measuring radiation is

- ☐ Kcal
- ☐ Gram
- ☐ Liter
- ☐ Rad

Question No.46

4.00

Bookmark ☐

Components of starch are amylose and

- ☐ Amylopectin
- ☐ Cellulose
- ☐ Dextrin
- ☐ Glucose

Question No.47

4.00

Bookmark ☐

The enzyme employed in digestion of fat is

- ☐ Lipase
- ☐ Insulin
- ☐ Pepsin
- ☐ Pancreatin

Question No.48

4.00

Bookmark ☐

Amount of protein present in soyabean is _____%

- ☐ 40
- ☐ 25
- ☐ 35
- ☐ 30

Question No.49

4.00

Bookmark ☐

Permanent hardness of water can be removed by

- ☐ Base exchange process
- ☐ Addition of lime
- ☐ Boiling
- ☐ Addition of tamarind

Question No.50

4.00

Bookmark ☐

One gram of ghee provides _____Kcal of energy

- ☐ 4
- ☐ 5
- ☐ 9
- ☐ 7

Question No.51

4.00

Bookmark ☐

Nisin is a

- ☐ Antibiotic
- ☐ Preservative
- ☐ Flavourant
- ☐ Colourant

Question No.52

4.00

Bookmark ☐

In celiac disease _____ should be excluded from diet

- ☐ Dhals
- ☐ Rice
- ☐ Methi leaves
- ☐ Wheat

Question No.53

4.00

Bookmark ☐

External examination of the body for changes in superficial epithelial tissue is

- ☐ Dietary assessment
- ☐ Clinical examination
- ☐ Anthropometry
- ☐ Chemical analysis

Question No.54

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.

Who sits second to the right of Danesh?

- ☐ Aasha
- ☐ Bhuvnesh
- ☐ Ekta
- ☐ Charan

Question No.55

4.00

Bookmark ☐

Reabsorption of water in the kidney is controlled by

- ☐ Antidiuretic hormone
- ☐ Aldosterone
- ☐ Oxytocin
- ☐ Growth hormone

Question No.56

4.00

Bookmark ☒

In fat spreads mono and diglycerides of stearate function as:

- ☐ Emulsifiers
- ☐ Plasticisers
- ☐ Stabilizers
- ☐ Thickeners

Question No.57

4.00

Bookmark ☐

Psychologists _____ that having a set of cherished companions is crucial to mental well-being.

- ☐ have been knowing for long
- ☐ have been known for long
- ☐ have known long
- ☐ have long known

Question No.58

4.00

Bookmark ☐

Which of the following best describes the polysaccharide cellulose?

- ☐ α 1,4-O- β -linked poly-D-glucose
- ☐ α 1,4-O- α -linked poly-D-glucose
- ☐ α 1,4-O- β -linked poly-D-galactose
- ☐ α 1,4-O- α -linked poly-D-galactose

Question No.59

4.00

Bookmark ☐

Of the following, which one acts as an antibacterial agent?

- ☐ Lysine
- ☐ Lecithin
- ☐ Lysosome
- ☐ Lysozyme

Question No.60

4.00

Bookmark ☐

If in a certain code, RIPPLE is coded as 613382 and LIFE is written as 8192. How is PILLER written in that code?

- ☐ 318286
- ☐ 318826
- ☐ 618826
- ☐ 338816

Question No.61

4.00

Bookmark ☐

Correct the error in the italicized sentence by choosing the most appropriate options. He said firmly that he would rather *starve to stealing* to get what he needed.

- ☐ starve to rather stealing
- ☐ starve to rather steal
- ☐ rather starve than steal
- ☐ rather starving to stealing

Question No.62

4.00

Bookmark ☐

The organ that secretes bile is

- ☐ Gall bladder
- ☐ Kidney
- ☐ Brain
- ☐ Liver

Question No.63

4.00

Bookmark ☐

Constipation caused due to lack of fluid is

- ☐ Spastic
- ☐ Atonic
- ☐ Tonic
- ☐ Obstructive

Question No.64

4.00

Bookmark ☐

Pasteurization is designed to:

- ☐ Make material almost sterile.
- ☐ Kill all living organisms present in the material being treated.
- ☐ Reduce the number of thermophilic organisms
- ☐ Reduce the number of potentially harmful organisms.

Question No.65

4.00

Bookmark ☐

Heart of normal individual weighs

- ☐ 300g
- ☐ 200g
- ☐ 500g
- ☐ 400g

Question No.66

4.00

Bookmark ☐

The functional role of sodium benzoate in fruit jam is as a:

- ☐ Stabilizer
- ☐ Antimicrobial
- ☐ Acidulant
- ☐ Antioxidant

Question No.67

4.00

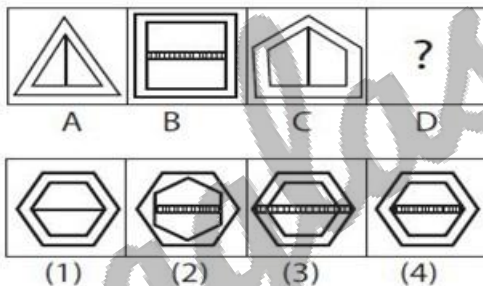
Bookmark ☐

Which of the following is not direct method of assessing nutritional status

- ☐ Diet survey
- ☐ Clinical examination
- ☐ Hemoglobin estimation
- ☐ Anthropometric measurements

Question No.68

4.00

Bookmark ☐

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ 4

Question No.69

4.00

Bookmark ☐

Kupffer's cells are found in

- ☐ Spleen
- ☐ Brain
- ☐ Bones
- ☐ Liver

Question No.70

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 human scarecrow?

- ☐ B
- ☐ E
- ☐ D
- ☐ C

Question No.71

4.00

Bookmark ☐

An example of essential fatty acid

- ☐ Palmitic acid
- ☐ Lauric acid
- ☐ Linoleic acid
- ☐ Stearic acid

Question No.72

4.00

Bookmark ☐

Heart covering is called

- ☐ Pleural membrane
- ☐ Peritoneum
- ☐ Myocardium
- ☐ Pericardium

Question No.73

4.00

Bookmark ☐

Cancer patients should be given diet rich in

- ☐ Calorie
- ☐ Antioxidants
- ☐ Fat
- ☐ Protein

Question No.74

4.00

Bookmark ☐

Power house of a cell is

- ☐ Mitochondria
- ☐ Golgi apparatus
- ☐ Ribosomes
- ☐ Nucleus

Question No.75

4.00

Bookmark ☐

Choose the best antonym of the italicized word. Hob's *flippancy* makes it difficult to have a prolonged conversation with him.

- ☐ vanity
- ☐ pleasant
- ☐ seriousness
- ☐ reticence

Question No.76

4.00

Bookmark ☐

Low methoxy pectins gel in the presence of:

- ☐ Sugar
- ☐ Calcium ions
- ☐ Acid
- ☐ Chloride ions

Question No.77

4.00

Bookmark ☐

Vinegar contains _____ % acetic acid

- ☐ 4
- ☐ 1
- ☐ 2
- ☐ 3

Question No.78

4.00

Bookmark ☐

Food rich in oxalates is

- ☐ Leafy vegetables
- ☐ Banana
- ☐ Fish
- ☐ Milk

Question No.79

4.00

Bookmark ☐

When carrot is dried in the following forms, which will have the highest drying rates?

- ☐ chopped
- ☐ grated
- ☐ diced
- ☐ sliced

Question No.80

4.00

Bookmark ☐

The food that inhibits iron absorption

- ☐ Tea
- ☐ Papaya
- ☐ Amla
- ☐ Lemon

Question No.81

4.00

Bookmark ☐

Enzyme present in saliva is

- ☐ Pancreatin
- ☐ Amylase
- ☐ Lipase
- ☐ Pepsin

Question No.82

4.00

Bookmark ☐

Bacteria that is Gram-positive, Catalase-negative Rod:

- ☐ *Clostridium perfringens*
- ☐ *Staphylococcus aureus*
- ☐ *Listeria monocytogenes*
- ☐ *Lactobacillus delbrueckii*

Question No.83

4.00

Bookmark ☐

Sucrose comprises of glucose and _____

- ☐ Glucose
- ☐ Sucrose
- ☐ Fructose
- ☐ Lactose

Question No.84

4.00

Bookmark ☐

Polyols do not react with amino acids and cause Maillard browning because:

- ☐ They are polymerized
- ☐ They are non-reducing
- ☐ They are reducing
- ☐ They are hydrolysed

Question No.85

4.00

Bookmark ☐

Melatonin is secreted by _____ gland

- ☐ Pituitary
- ☐ Adrenal
- ☐ Pineal
- ☐ Thyroid

Question No.86

4.00

Bookmark ☐

Head quarters of WHO is

- ☐ Chicago
- ☐ Paris
- ☐ Rome
- ☐ Geneva

Question No.87

4.00

Bookmark ☐

Three years ago the average age of A and B was 18 years. If C joins them today, the average becomes 22 years. How old is C now?

- ☐ 26
- ☐ 28
- ☐ 24
- ☐ 32

Question No.88

4.00

Bookmark ☐

Scarcely had I reached the railway station when the New Delhi Express took off.
The underlined words are

- ☐ verbs
- ☐ conjunctions
- ☐ pronouns
- ☐ adverbs

Question No.89

4.00

Bookmark ☐

β -Glucan present in oats is:

- ☐ Neutral detergent fibre
- ☐ resistant fibre
- ☐ soluble fibre
- ☐ insoluble fibre

Question No.90

4.00

Bookmark ☐

The membranes of the psychrophiles will have higher levels of _____ fatty acids than the membranes of the mesophiles.

- ☐ saturated
- ☐ cis unsaturated
- ☐ trans unsaturated
- ☐ both saturated and unsaturated

Question No.91

4.00

Bookmark ☐

Species responsible for "eyes" in Swiss cheese:

- ☐ *Brevibacterium linens*
- ☐ *Pseudomonas fluorescens*
- ☐ *Propionibacterium freudenreichii*
- ☐ *Acinetobacter calcoaceticus*

Question No.92

4.00

Bookmark ☐

Keeping out microorganisms is called

- ☐ Fermentation
- ☐ Canning
- ☐ Blanching
- ☐ Asepsis

Question No.93

4.00

Bookmark ☐

Although there are _____ outbursts of gunfire, the evening news reported that the major rebellion has been suppressed.

- ☐ meagre
- ☐ heinous
- ☐ sporadic
- ☐ bitter

Question No.94

4.00

Bookmark ☐

Moisture retention agents are also called

- ☐ Humectants
- ☐ Flavor enhancers
- ☐ Anticaking agents
- ☐ Preservatives

Question No.95

4.00

Bookmark ☐

Process of bringing frozen food to normal temperature is called

- ☐ Thawing
- ☐ Blanching
- ☐ Syneresis
- ☐ Gelation

Question No.96

4.00

Bookmark ☐

Deficiency of Vitamin D leads to:

- ☐ Xerophthalmia
- ☐ Beriberi
- ☐ Nyctalopia
- ☐ Osteomalacia

Question No.97

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.

Denigrate is to *Devalue* as *Upgrade* is to?

- ☐ Praise
- ☐ Debase
- ☐ Devalue
- ☐ Promote

Question No.98

4.00

Bookmark ☐

Based on the information given answer the following question.

1. In a family of six persons, there are people from three generations. Each has separate professions and they like different colours. There are two couples.
2. Shyam is an Engineer and his wife is not a doctor and she does not like Red colour.
3. Chartered Accountant likes green colour and his wife is a teacher.
4. Manisha is the mother-in-law of Sunita and she likes orange colour.
5. Vimal is the grand father of Tarun and tarun is the Principal and likes black colour.
6. Nyna is the grand daughter of Manisha and she likes blue colour. Nyna's Mother likes white colour.

How many ladies are there in the family?

- ☐ 4
- ☐ 3
- ☐ Cannot be determined
- ☐ 2

Question No.99

4.00

Bookmark ☐

FSSAI stands for

- ☐ Food Security and Standards Authority of India
- ☐ Food Standards and Safety Authority of India
- ☐ Food Standards and Social Authority of India
- ☐ Food Safety and Standards Authority of India

Question No.100

4.00

Bookmark ☐

Species responsible for thermophilic flat-sour defect in canned foods:

- ☐ *Clostridium butyricum*
- ☐ *Bacillus polymyxa*
- ☐ *Bacillus stearotherophilus*
- ☐ *Clostridium thermosaccharolyticum*