

389 PU M Sc Food Science and Nutrition

1 of 100

198 PU_2016_389_E

Which of the following is an alpha lactone?

- Vit.D
- Vit.A
- Vit. K
- Vit. C

2 of 100

110 PU_2016_389_E

Gliadin is soluble in:-

- Alcohol
- Sugar
- Dilute acid and alkali
- Salt

3 of 100

191 PU_2016_389_E

Which of the following is a keto triose?

- Erythrose
- Ribulose
- Glyceraldehyde
- Dihydroxyacetone

4 of 100

152 PU_2016_389_E

Which of the following is not an essential amino acid?

- Histidine
- Methionine
- Leucine
- Proline

5 of 100

139 PU_2016_389_E

Saponification number is the number of milligrams of KOH required to saponify 1 g fat. Which of the following statement is true about saponification number?

- The shorter is the chain length of fatty acids the higher is the saponification number
- The shorter is the chain length of fatty acids, the lower will be the saponification number
- The lower is the saturation of fatty acid, the higher will be saponification number

- The higher the chain saturation of fatty acid, the lower will be saponification number

6 of 100

132 PU_2016_389_E

Polenske value of fatty acid indicates _____.

- Level of saturation in the fatty acid
- Indication of branching of fatty acid in the fat
- How much volatile fatty acid can be extracted through saponification
- How much unsaturation is there in the fatty acid

7 of 100

174 PU_2016_389_E

SO₂ content in pure KMS is:-

- 25.5%
- 75.5%
- 57.7%
- 78.2%

8 of 100

215 PU_2016_389_E

A keto pentose will have _____ stereoisomers.

- 8
- 4
- 6
- 10

9 of 100

214 PU_2016_389_E

Which of the following is non-climacteric fruit?

- Grape
- Mango
- Banana
- Apple

10 of 100

149 PU_2016_389_E

Among the 20 standard proteins coding amino acids, which one is least occurs in proteins?

- Glycine
- Alanine
- Methionine

- Tryptophan

11 of 100

133 PU_2016_389_E

For distant marketing, tomato fruits are harvested at:-

- Turning stage
- Red ripe stage
- Immature green stage
- Mature green stage

12 of 100

190 PU_2016_389_E

Maltose is a disaccharide of _____.

- Fructose and lactose
- Glucose and glucose
- Glucose and galactose
- Glucose and lactose

13 of 100

116 PU_2016_389_E

If a product is said to be "Sugar Free" it contains how much sugar?

- Less than 0.5 grams of sugar per serving
- Less than 10.0 grams
- None
- Not more than 40 kcal per serving

14 of 100

136 PU_2016_389_E

Goat and sheep milk contains _____% MF and _____% MSNF.

- 3.5-4.0, 8.5
- 3.0-3.5, 9.0
- 4.5, 8.5
- 5.0-6.0, 9.0

15 of 100

158 PU_2016_389_E

Which of the following is an example for a bio-plastic?

- Poly-L-lysine
- Polyglutamate
- Polyaspartate

- All of the above

16 of 100

170 PU_2016_389_E

Carnosine is a dipeptide of histidine and _____.

- β -alanine
- α -lysine
- β -histidine
- β -lysine

17 of 100

113 PU_2016_389_E

Which of the following is a rapid precooling method:-

- Vacuum Cooling
- Hydro Cooling
- Evaporative Cooling
- Forced air Cooling

18 of 100

192 PU_2016_389_E

Moisture content in dried vegetable is:-

- 6%
- 5%
- 2%
- 3%

19 of 100

178 PU_2016_389_E

Storage temperature for Asparagus is:-

- 0 - 5°C
- 5 - 7°C
- 10 - 15°C
- 7 - 11°C

20 of 100

117 PU_2016_389_E

Which chemical is used for controlling sprouting of onions in storage?

- Ethylene (C_2H_4)
- Ascorbic acid
- Maleic Hydrazide (MH)

- Gallic acid

21 of 100

153 PU_2016_389_E

The Limiting Amino acid in green vegetables is:-

- Methionine
- Arginine
- Tryptophan
- Lysine

22 of 100

114 PU_2016_389_E

Greater the number of carbon atom in chain of fatty acid _____.

- The melting point will be lower
- The boiling point will be lesser
- The boiling point will be higher
- The melting point will be higher

23 of 100

179 PU_2016_389_E

Minimum number of carbon required for a ketose sugar to have cyclic structure is:-

- 4
- 3
- 5
- 6

24 of 100

118 PU_2016_389_E

Carnauba wax is an example for _____.

- Soft wax
- Liquid wax
- Hard wax
- Archaeobacterial wax

25 of 100

157 PU_2016_389_E

Histones are rich in _____.

- Lysine
- Histidine
- Arginine

- Lysine and Arginine

26 of 100

173 PU_2016_389_E

Which of the following amino acid is sweet in taste?

- Alanine
- Glycine
- Glutamic acid
- None of the above

27 of 100

134 PU_2016_389_E

Which of the following statement is true?

- Oxidative rancidity is observed more frequently in vegetable fats than animal fats
- Plants fats do not undergo oxidative rancidity
- Oxidative rancidity is observed more frequently in animal fats than vegetable fats
- Oxidative rancidity can be effectively checked by dehydrogenation of fatty acids

28 of 100

197 PU_2016_389_E

Storage of fruits and vegetables, where the gas composition is changed from that of normal atmosphere and a precise control is maintained over the atmospheric composition during storage period is known as:-

- Cold storage
- Hypobaric storage
- Controlled Atmospheric (CA) storage
- Modified Atmospheric (MA) storage

29 of 100

177 PU_2016_389_E

Lectins are_____.

- Enzymes specific to carbohydrates
- Carbohydrates specific to enzymes
- Proteins specific to sugars
- Sugars specific to proteins

30 of 100

196 PU_2016_389_E

A sweetener used in sugar less gums and candies:-

- Ribitol
- Xylitol

- Inositol
- Mannitol

31 of 100

210 PU_2016_389_E

Toddy from coconut is prepared by:-

- Bacteria
- Fungi
- Yeast
- Fermentation

32 of 100

199 PU_2016_389_E

Vitamin which is not found in Fruits and Vegetables is:-

- Vitamin A
- Vitamin B₁₂
- Vitamin B₆
- Vitamin B₁

33 of 100

213 PU_2016_389_E

Fungus which mostly grown on grapes:-

- Colletotrichum*
- Penicillium*
- Botrytis*
- Geotrichum*

34 of 100

216 PU_2016_389_E

Ghee is adulterated with:-

- Oil
- Artificial fat
- Vanaspathi
- Rancid fat

35 of 100

112 PU_2016_389_E

Cauliflower curds can be stored for a month at:-

- 15°C with 60-80% RH
- 20°C with 50-70% RH

- 0°C with 85-90% RH
- 15°C with 60-65% RH

36 of 100

131 PU_2016_389_E

Number of milligrams of KOH required to neutralize fatty acid present in 1 g of fat is called:-

- Saponification number
- Acid number
- Potassium number
- Iodine number

37 of 100

195 PU_2016_389_E

Bitterness in peach is due to:-

- Sugar
- Prunasin acid
- Malic acid
- Hydrocyanin

38 of 100

135 PU_2016_389_E

Specific gravity of lipid is _____.

- 1.0
- 0.8
- 0.2
- 1.5

39 of 100

115 PU_2016_389_E

Nature of Gliadin is:-

- Extensive
- Elastic
- Tough
- Viscous

40 of 100

130 PU_2016_389_E

For curing, sweet potato are kept for 10 days at:-

- 40°C and 70% RH
- 80°C and 30% RH

- 30°C and 80% RH
- 25°C and 85% RH

41 of 100

111a PU_2016_389_E

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

- Colour
- Size
- TSS
- Shape

42 of 100

172 PU_2016_389_E

Concentration of SO₂ in concentrated juice is:-

- 1500 ppm
- 500 ppm
- 350 ppm
- 1000 ppm

43 of 100

151 PU_2016_389_E

What is the molecular weight of Glycine?

- 95 gmol/L
- 75 gmol/L
- 90 gmol/L
- 80 gmol/L

44 of 100

129 PU_2016_389_E

Generally fats with unsaturated fatty acids are _____ at room temperature (25°C)

- Solid
- Liquid in the presence of oxygen
- Liquid in the absence of oxygen
- Liquid

45 of 100

176 PU_2016_389_E

Enzyme responsible for converting pectin into pectic acid is:-

- Poly Galacturonase
- Pectinase

- Proto-peclinase
- Pectic Methyl Esterase (PME)

46 of 100

217 PU_2016_389_E

The reserve food material of green algae is:-

- Floridian starch
- Laminarin
- Starch
- Chrysolaminarin

47 of 100

194 PU_2016_389_E

Bitterness in Citrus juice is due to:-

- Glucosides
- Sugar
- Vitamins
- Acid

48 of 100

137 PU_2016_389_E

Which refrigerant is commonly used is used in cold storage in our country?

- Ethylene
- Carbide
- Ammonia
- Sodium Benzoate

49 of 100

193 PU_2016_389_E

The glycosidic linkage between two glucose molecules in isomaltose is:-

- α 1 - 4
- α 1 - 6
- β 1 - 4
- β 1 - 4

50 of 100

211 PU_2016_389_E

Mostly dry fruit are rich in:-

- Protein
- Carbohydrates

- Vitamins
- Fats

51 of 100

175 PU_2016_389_E

Minimum number of carbon required for a monosaccharide:-

- 1
- 2
- 3
- 4

52 of 100

138 PU_2016_389_E

For Low Sugar content, potato tubers are stored at:-

- 20°C
- 5°C
- 15°C
- 10°C

53 of 100

156 PU_2016_389_E

Gluten is viscous and elastic in nature and is combination of:-

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

54 of 100

171 PU_2016_389_E

Mango fruits can be best stored at a temperature of:-

- 4°C
- 16°C
- 8°C
- 0°C

55 of 100

212 PU_2016_389_E

Formation of abscission layer is maturity index of:-

- Leafy vegetables
- Melons

- Tomato
- Onion

56 of 100

159 PU_2016_389_E

Spinach is rich in:-

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

57 of 100

150 PU_2016_389_E

Double toned milk contains _____% MF and _____% MSNF.

- 3.5, 8.5
- 3.0, 8.5
- 1.5, 9.0
- 4.5, 8.5

58 of 100

154 PU_2016_389_E

Single letter code of pyrrolysine is _____.

- J
- U
- B
- O

59 of 100

111 PU_2016_389_E

Aminolevulinic acid, the first product in porphyrin biosynthesis in eukaryotes, is synthesized from _____ and succinyl-CoA.

- Tryptophan
- Glycine
- Methionine
- Valine

60 of 100

155 PU_2016_389_E

Recombined milk contains _____% MF and _____% MSNF.

- 5.0, 9.0

- 4.5, 8.5
- 3.5, 8.5
- 3.0, 9.0

61 of 100

226 PU_2016_389_M

Hen and Chicken disorder is associated with:-

- Tomato
- Guava
- Mango
- Grapes

62 of 100

245 PU_2016_389_M

Glutenin forms _____ disulfide bond.

- Both above
- Intermolecular
- Intramolecular
- None of the above

63 of 100

249 PU_2016_389_M

Which of these is not a Non-Random type of sampling?

- Haphazard sampling
- Restricted sampling
- Judgment sampling
- Systematic sampling

64 of 100

222 PU_2016_389_M

Which of the following is an aldotriose?

- Ribulose
- Dihydroxyacetone
- Erythrose
- Glyceraldehyde

65 of 100

227 PU_2016_389_M

Saffron is adulterated with:-

- Maize fibres dried

- Cassia bark
- Marigold dried flower
- Wheat fibres dried

66 of 100

221 PU_2016_389_M

Maximum density of water is at a temperature of:-

- 4°C
- 0°C
- 7°C
- 46°C

67 of 100

243 PU_2016_389_M

Organoleptic estimation is a:-

- Microscopic method
- Objective method
- Subjective method
- Chemical method

68 of 100

241 PU_2016_389_M

Common salt is adulterated with:-

- White dried leaves
- Talcum powder
- White powdered stone or chalk
- Cassia bark

69 of 100

229 PU_2016_389_M

Cow milk contains ____% MF and ____% MSNF.

- 3.5-4.0, 8.5
- 5.0-6.0, 9.0
- 3.0-3.5, 9.0
- 4.5, 8.5

70 of 100

220 PU_2016_389_M

The glycosidic linkage between glucose molecule in maltose is:-

- β 1 - 2

- α 1 - 4
- β 1 - 4
- α 1 - 2

71 of 100

246 PU_2016_389_M

Glutenin is soluble in:-

- Sugar
- Dilute acid and alkali
- Alcohol
- Salt

72 of 100

242 PU_2016_389_M

In cucumber, chilling- injury symptoms are occurred at:-

- $>10^{\circ}\text{C}$
- 7°C
- 10°C
- $<7^{\circ}\text{C}$

73 of 100

225 PU_2016_389_M

Redcolour of tomato is due to:-

- Carotene
- Anthocyanin
- Xanthophyll
- Lycopene

74 of 100

228 PU_2016_389_M

A Point which have 5% Low RH than the Critical Point is:-

- Safety Point
- Danger Point
- Critical Point
- Saturated Point

75 of 100

240 PU_2016_389_M

As fruits mature, the specific gravity will:-

- Remains constant

- Increase
- Decrease
- None of the above

76 of 100

248 PU_2016_389_M

Glutenin generally contains _____ numbers disulfide bond.

- No
- Odd
- Even
- Less

77 of 100

247 PU_2016_389_M

Which of the bacteria can grow in alkaline pH?

- Staphylococcus*
- Vibrio cholera*
- Salmonella*
- Lactobacilli*

78 of 100

223 PU_2016_389_M

Guava fruit is botanically known as:-

- Sorosis
- Berry
- Drupe
- Pome

79 of 100

224 PU_2016_389_M

The general chemical formula of carbohydrate is:-

- $(CH_2O)_n$
- $C_nH_{2n}O$
- $(CH_2O)_{2n}$
- $(CHO)_n$

80 of 100

244 PU_2016_389_M

Which of these is not a Random type of sampling?

- Quota sampling

- Composite sampling
- Cluster sampling
- Simple random sampling

81 of 100

281 PU_2016_389_D

The enzymes enterokinase helps in the conversion of:-

- Trypsinogen into trypsin
- Proteins into polypeptides
- Caseinogens into casein
- Pepsinogen in to pepsin

82 of 100

268 PU_2016_389_D

Both cysteine and methionine are chiral L-amino acids that incorporate a single sulfur. The C-2 configuration is S in methionine, but R in cysteine. Why?

- The sulfur atom in cysteine is remote from C-2 and does not influence the sequence rule
- Biosynthesis of cysteine proceeds by inversion at C-2.
- The sulfur in cysteine prevents zwitterion formation
- The sulfur atom in methionine is remote from C-2 and does not influence the sequence rule.

83 of 100

284 PU_2016_389_D

Rich sources of Vitamin B are:-

- Egg yolk
- Fresh liver oils
- Green leafy vegetables
- Liver

84 of 100

280 PU_2016_389_D

Which factor is responsible for inhibition enzymatic process during feed back?

- Enzymes
- End product
- Temperature
- Substrate

85 of 100

289 PU_2016_389_D

Which of the following best describes the polysaccharide amylose?

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

86 of 100

286 PU_2016_389_D

Essential constituent of protoplasm is:-

- Tonoplast
- Water
- Centrioles
- Vacuoles

87 of 100

283 PU_2016_389_D

Desmosine is an unusual amino acids found in:-

- Troponin
- Elastin
- Myosin
- Actin

88 of 100

288 PU_2016_389_D

Vitamin A is not found in:-

- Citrus fruits
- Green leafy vegetables
- Fresh liver oils
- Egg yolk

89 of 100

264 PU_2016_389_D

SMBT:-

- Simultaneous Moving Bed Technology
- Simulated Moving Bed Technology
- Simultaneous Moving Bead Technology
- Simulated Moving Bead Technology

90 of 100

285 PU_2016_389_D

Lack of vitamin B may result in:-

- Poor cellular respiration
- Poor eye sight
- Dull skin
- Tooth decay

91 of 100

282 PU_2016_389_D

The formation of cystine occurs at:-

- Endoplasmic Reticulum
- Cytosol
- Mitochondria
- Golgi apparatus

92 of 100

265 PU_2016_389_D

Which is a not a factor of butanol?

- Complete soluble in water
- It is C₄ solvent
- Partially soluble in water
- Used as solvent in TPP process

93 of 100

287 PU_2016_389_D

Light-sensitive pigment in retina is created by:-

- Vitamin D
- Vitamin B complex
- Vitamin E
- Vitamin A

94 of 100

269 PU_2016_389_D

How many nucleotides are needed to code for a specific amino acid?

- Three
- Four
- Two
- One

95 of 100

261 PU_2016_389_D

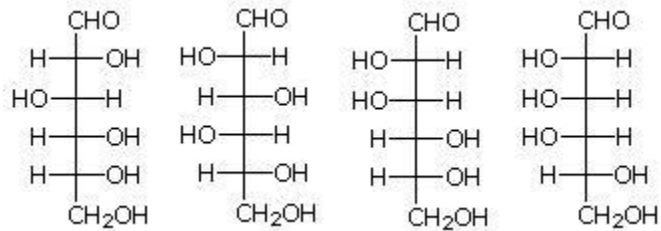
Which of the following best describes the polysaccharide cellulose?

- 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

96 of 100

260 PU_2016_389_D

Which two of the following aldohexoses give the same osazone derivative?



- 1 & 3
- 3 & 4
- 1 & 4
- 2 & 3

97 of 100

263 PU_2016_389_D

Which is not a function of sodium dodecyl sulfate in SDS-PAGE?

- Disturb the complex structure of protein
- Negative charge within wide range pH
- Cationic detergent
- Anionic detergent

98 of 100

267 PU_2016_389_D

Which of the following methods selectively cleaves a peptide at methionine residues?

- Cyanogen bromide
- Chymotrypsin digestion
- Trypsin digestion
- Edman degradation

99 of 100

262 PU_2016_389_D

If two isomers have been classified correctly as anomers, they may also be called:-

- Tautomers

- Diastereomers
- Enantiomers
- Conformers

100 of 100

266 PU_2016_389_D

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

- An enzyme provides a reaction surface and a hydrophilic environment for the reaction to take place
- An enzyme allows the reaction to go through a more stable transition state than would normally be the case
- An enzyme binds reactants such that they are positioned correctly and can attain their transition-state configurations
- An enzyme can weaken bonds in reactants through the binding process