

396 PU M Sc Food Science and Technology

1 of 100

206 PU_2016_396_E

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

- 50%
- 100%
- 0%
- 25%

2 of 100

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

3 of 100

217 PU_2016_396_E

Spinach is rich in:-

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

4 of 100

169 PU_2016_396_E

What are barges?

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

5 of 100

104 PU_2016_396_E

Highest unit of radiation is:-

- Kilo gray
- Megarad
- Rad

- Gray

6 of 100

111 PU_2016_396_E

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

- Water
- Hexane
- Alcohol
- Calcium hydroxide

7 of 100

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

8 of 100

117 PU_2016_396_E

Addition of Hops in beer is done to:-

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

9 of 100

165 PU_2016_396_E

Which of the following fruit is climacteric?

- Lemon
- Apple
- Orange
- Melon

10 of 100

103 PU_2016_396_E

Sedimentation coefficient of bacterial ribosome is:-

- 30
- 60

- 70
- 40

11 of 100

141 PU_2016_396_E

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

- 2100
- 3100
- 5100
- 4100

12 of 100

135 PU_2016_396_E

For the flow of fluid we need difference in:-

- Moisture content
- Force
- Concentration
- Pressure

13 of 100

128 PU_2016_396_E

Hops are used in the manufacture of:-

- Brandy
- Whisky
- Wine
- Beer

14 of 100

153 PU_2016_396_E

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

15 of 100

177 PU_2016_396_E

Pekoe is:-

- Broken grade

- Leaf grade
- Method of rolling
- Unfermented tea

16 of 100

200 PU_2016_396_E

Psychrometric chart is made for:-

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

17 of 100

199 PU_2016_396_E

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%

18 of 100

109 PU_2016_396_E

The color of spores in wirtz method is:-

- Green
- Red
- Blue
- Pink

19 of 100

127 PU_2016_396_E

What is ale?

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

20 of 100

207 PU_2016_396_E

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

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

21 of 100

134 PU_2016_396_E

Operating speed of ball mill must be less than:-

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

22 of 100

183 PU_2016_396_E

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 crispness 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
- Hemagglutinins

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