

Section 1 - Section 1

Question No.1

4.00

Bookmark

neohesperidinedihydrochalcone from citrus rind is responsible for

- Sourness
- Sweetness
- Bitterness
- Astringency

Question No.2

4.00

Bookmark

The major phytochemical used as nutraceuticals is

- Glucosinolates
- Sphingolipid
- Choline
- Lecithin

Question No.3

4.00

Bookmark

Hydration is a process of

- packing with hydrogen gas
- soaking in water
- drying at high temperatures
- drying at low temperatures

Question No.4

4.00

Bookmark

LDL

- provide the major means of triacylglycerol transport
- are involved in the transport and delivery of cholesteryl esters
- by uncontrolled self-replication are the cause of hypercholesterolemia
- are substrates for hormone sensitive lipase

Question No.5

4.00

Bookmark

Which chemical is used for controlling sprouting of onions in storage

- Gallic Acid
- Maleic Hydrazide
- Gibberellic Acid
- Ethylene (C₂H₄)

Question No.6

4.00

Bookmark

Thickness in thin layer drying is

- more than 35 cm
- 15-25 cm
- 25-35 cm
- less than 15 cm

Question No.7

4.00

Bookmark

Identify the food that contains nitrosamines formed by the reaction of nitrates and nitrites with amino acids?

- Cooked preserved meats
- Bananas artificially ripened in an atmosphere of ethylene
- Cheese aged over 6 months
- Mushrooms cooked in aluminum pots

Question No.8

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.

Latex is to *Rubber* as *Flax* is to?.....

- Linen
- Jute
- Cotton
- Silk

Question No.9

4.00

Bookmark

Common drying technique is used to remove

- equilibrium moisture content
- bound moisture
- total moisture content
- free moisture

Question No.10

4.00

Bookmark

The size of round screen is represented by its

- circumference
- area
- diameter
- radius

Question No.11

4.00

Bookmark

Arachidonic acid is an important fatty acid in human because it

- serves as a precursor to prostanoids
- has all trans double bonds
- imparts surface-active properties to lung surfactant
- is a saturated fatty acid

Question No.12

4.00

Bookmark

Rheology deals with

- flow and deformation
- torque and velocity
- viscosity and density
- stress and strain

Question No.13

4.00

Bookmark

The temperature range for ultra high temperature UHT sterilisation of milk is

- 115 - 125°C
- 90 - 100°C
- 135 - 150°C
- 100 - 125°C

Question No.14

4.00

Bookmark

Glucose is used in human metabolism for the synthesis of all the following except

- Oxaloacetate
- Ribose 5-phosphate
- glycerol 3-phosphate
- Leucine

Question No.15

4.00

Bookmark

The process of reducing fat droplet size in milk to prevent cream separation is known as

- esterification
- pasteurisation
- crystallisation
- Homogenisation

Question No.16

4.00

Bookmark

Fat percentage in butter is

- 80
- 60
- 70
- 50

Question No.17

4.00

Bookmark

Hydrogenated oils are considered to be lower in nutritional quality due to

- decreasing saturation of fatty acids
- formation of trans-fatty acids
- increasing unsaturation of fatty acids
- decreasing level of essential fatty acids

Question No.18

4.00

Bookmark

Select the true statement.

- Citrus fruits are desirable in the diet because they furnish citric acid, a component of the Krebs cycle
- Propionic acid, which is added to bread to retard spoilage, is very toxic because it cannot be utilized in the body
- Cola drinks are often acidified with phosphoric acid
- Properly canned foods should not be kept for longer than 2 months because of oxidation in the container

Question No.19

4.00

Bookmark

The apparatus is used for the moisture determination of spices

- Hydrometer
- Dean and stark
- Soxhlet apparatus
- Clevenger apparatus

Question No.20

4.00

Bookmark

Which of the following analytical methods can be used to distinguish flavour compounds?

- near infrared spectroscopy
- polarimetry
- hydrometry
- gas chromatography

Question No.21

4.00

Bookmark

The moisture content of 20% (w.b) will be equal to

- 25% (d.b)
- 30% (d.b)
- 35% (d.b)
- 20% (d.b)

Question No.22

4.00

Bookmark

The SI unit for specific heat of food grains is

- kcal/kg
- KJ/kgK
- kcal/kg°C
- W/kg°C

Question No.23

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.

Which Colour is liked by the Sunita?

- White
- Black
- Cannot be determined
- Green

Question No.24

4.00

Bookmark

Fluid more frequently used in super critical fluid extraction process is

- chlorofluorocarbon
- hexane
- carbon-di-oxide
- methane

Question No.25

4.00

Bookmark

Fill in the blank with the correct form of the verb.

The International Women's Day _____ with great enthusiasm by our university last month.

- celebrated
- was celebrated
- is celebrated
- has celebrated

Question No.26

4.00

Bookmark

In grain storage system which one has high tolerance limit?

- Bacteria
- Birds
- Fungi
- Insect

Question No.27

4.00

Bookmark

Coenzyme A contains the vitamin

- pantothenic acid
- pyridoxine
- riboflavin
- thiamine

Question No.28

4.00

Bookmark

Thermogravimetric analysis is not concerned with

- Reagent of Precipitation
- Mass
- Time
- Temperature

Question No.29

4.00

Bookmark

You wouldn't tell them what happened, _____

- wouldn't you?
- would you?
- isn't it?
- won't you?

Question No.30

4.00

Bookmark

Decimal reduction time in microbial destruction is inversely proportional to

- Z value
- Universal gas constant
- Reaction rate
- initial concentration

Question No.31

4.00

Bookmark

Choose the most appropriate preposition to fill the blank:

The mathematics exam will be held between 2 ____ 4pm.

- and
- from
- to
- at

Question No.32

4.00

Bookmark

Thiamine pyrophosphate is involved in

- oxidation-reduction reactions
- carboxylation reactions
- aminotransferases
- decarboxylation reactions

Question No.33

4.00

Bookmark

The NPU and BV are reference values for the comparison of the food value of

- proteins
- Carbohydrates
- lipids
- fiber

Question No.34

4.00

Bookmark

Spinach is rich in

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

Question No.35

4.00

Bookmark

Which of the following acid will have higher bacteriostatic effect at a given pH

- Acetic acid
- Citric acid
- Maleic acid
- Tartaric acid

Question No.36

4.00

Bookmark

Preservative having maximum efficiency against rope forming organisms in bread is

- Sulphur dioxide
- Nitrites
- Calcium propionate
- Sodium benzoate

Question No.37

4.00

Bookmark

Which of the following microorganisms cannot tolerate oxygen

- Staphylococcus aureus*
- E. coli*
- Penicillium roquefortii*
- Clostridium botulinum*

Question No.38

4.00

Bookmark

If 9 men working 6 hours a day can do a work in 88 days. Then 6 men working 8 hours a day can do it in how many days?

- 97
- 89
- 99
- 95

Question No.39

4.00

Bookmark

The process of mass transfer in which the water vapors move from the surface of the produce to the surrounding atmosphere is known as

- Transformation
- Transmission
- Transpiration
- Condensation

Question No.40

4.00

Bookmark

The method of mining silver varies from place to place, _____?

- isn't it?
- doesn't it?
- is it?
- does it?

Question No.41

4.00

Bookmark

The iodine number of a fat measures

- its degree of unsaturation
- its amphipathic character
- the number of phosphate groups in the molecule
- the number of hydroxyl groups present

Question No.42

4.00

Bookmark

Substance required in Ca⁺⁺ transport by intestinal mucosa

- etiocholanolone
- 1,25-dihydroxycholecalciferol
- cholic acid
- cholesterol

Question No.43

4.00

Bookmark

What is the operating principle behind oven drying for determining moisture content of foods?

- colour change is measured
- loss of weight represents loss of water
- change in refractive index is measured
- change in light absorbance is measured

Question No.44

4.00

Bookmark

The International Unit (I.U.) for enzyme activity is that amount of enzyme which at 30° C will convert substrate to product at a rate of

- 1 millimole/min
- 1 micromole/sec
- 1 millimole/sec
- 1 micromole/min

Question No.45

4.00

Bookmark

Sunil likes chocolates very much, _____?

- isn't it?
- is it?
- does he
- doesn't he?

Question No.46

4.00

Bookmark

From most of the wheat mills the yield of flour obtained is about

- 65%
- 75%
- 80%
- 60%

Question No.47

4.00

Bookmark

Tomato ketchups TSS (%) should not be less than:-

- 25
- 35
- 39
- 41

Question No.48

4.00

Bookmark

The optimum moisture content of paddy for milling is

- 8-10 % w.b
- 12-14% w.b
- 10-12% w.b
- 14-20% w.b

Question No.49

4.00

Bookmark

Yolk constitute _____ % of the total weight of egg

- 31%
- 41%
- 21%
- 51%

Question No.50

4.00

Bookmark

Red colour in Chillies is mainly due to

- Beta-carotene
- Anthocyanins
- Carotenoid
- Lycopene

Question No.51

4.00

Bookmark

pH of honey is

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

Question No.52

4.00

Bookmark

Statement: Be humble even after being victorious.

Assumptions:

I. Many people are humble after being victorious

II. Generally People are not humble

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

Question No.53

4.00

Bookmark

Parboiling of paddy is a

- soaking process
- hydro thermal process
- heating process
- drying process

Question No.54

4.00

Bookmark

The preservative added for the grape squash is

- citric acid
- sodium benzoate
- sodium chloride
- potassium meta bi sulphite

Question No.55

4.00

Bookmark

The preservative having activity both in acidic as well as alkaline pH is

- Sodium benzoate
- Parabens
- Sorbic acid
- Propionic acid

Question No.56

4.00

Bookmark

If whole the surface of a food material is dried in the absence of radiation using hot air, the surface temperature will be equal to

- dew point of the air
- dry bulb temperature of air
- Wet bulb temperature of air
- boiling point of water

Question No.57

4.00

Bookmark

Calorific value of rice husk is approximately

- 20000 kJ/kg
- 25000 kJ/kg
- 22500 kJ/kg
- 12500 kJ/kg

Question No.58

4.00

Bookmark

Water content of skimmed milk is

- 90
- 80
- 70
- 60

Question No.59

4.00

Bookmark

Glycogen is

- a highly branched heteropolysaccharide with alpha 1>6 glycosidic branch points
- a highly branched glucan with primarily alpha 1>4 glycosidic linkages and alpha 1>6 branch points
- a linear glucan with alpha 1>4 glycosidic linkages
- a relatively low molecular weight polysaccharide with alpha 1>4 and alpha 1>6 glycosidic linkages

Question No.60

4.00

Bookmark

Which of the following is not one of the twenty common amino acids?

- $\text{NH}_2\text{-CO-CH}_2\text{-CHNH}_2\text{-COOH}$
- $\text{HOOC-CH}_2\text{-CHNH}_2\text{-COOH}$
- $\text{CH}_3\text{-CHNH}_2\text{-COOH}$
- $\text{HOCHNH}_2\text{-CH}_2\text{-COOH}$

Question No.61

4.00

Bookmark

Which of the following equations represents a straight line?

- $4y^2+2x^2=0$
- $4x^2+2x+9=0$
- $3x^2+2xy+y^2=9$
- $4y+3x+2=0$

Question No.62

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 married to Radha?

- Vinod
- Nagesh
- Anand
- Charan

Question No.63

4.00

Bookmark

"Freez burn" is an injury observed during frozen storage of poultry meat. It can be prevented by

- By packaging the product with a skin tight, impermeable plastic
- By allowing fluctuations in the storage room
- Circulating dry air in the cold storage
- By maintaining very low temperature

Question No.64

4.00

Bookmark

Folic acid has one of the following FDA approved health claim related to

- Coronary heart disease
- Hypertension
- Cancer
- Neural tube birth defects

Question No.65

4.00

Bookmark

To which of the following does protein tertiary structure refer?

- helical structure in proteins
- the three dimensional structure
- amino acid sequence
- amino acid composition

Question No.66

4.00

Bookmark

Choose the best antonym of the italicized word.

The principal *deprecated* the attitude of some student-leaders.

- tolerated
- ignored
- appreciated
- derided

Question No.67

4.00

Bookmark

The yellow pigment in papaya is

- carotene
- caricaxanthin
- anthocyanin
- xanthophylls

Question No.68

4.00

Bookmark

Which of the following number represents the carbon atoms in Oleic acid?

- 18
- 12
- 10
- 16

Question No.69

4.00

Bookmark

The product derived out of milk after removal of cream is known as

- whey
- butter milk
- curd
- skimmed milk

Question No.70

4.00

Bookmark

Choose the synonym of the italicized word.

Some people are extremely *fastidious* in their choice of dress.

- careless
- fussy
- pompous
- discriminating

Question No.71

4.00

Bookmark

Firmness of fruits is a property related to

- electrical properties
- textural characteristics
- optic properties
- physical properties

Question No.72

4.00

Bookmark

1, 4, 27, 16, ?, 36, 343

- 125
- 25
- 72
- 132

Question No.73

4.00

Bookmark

Three nutritionally essential amino acids which tend to be deficient in plant proteins are

- methionine, lysine and tyrosine
- lysine, arginine and threonine
- tryptophan, methionine and lysine
- tryptophan, lysine and leucine

Question No.74

4.00

Bookmark

The dose of ionizing radiation for destruction of *Clostridium botulinum* is

- 2.5-4 kGy
- 5-6 kGy
- 4-5 kGy
- 0-2.5 kGy

Question No.75

4.00

Bookmark

Most spoilage and pathogenic bacteria those contaminate food materials have water activity of

- 0.81 – 0.85
- 0.86 - 0.90
- 0.75 - 0.80
- 0.91 – 0.99

Question No.76

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.

Which is the position of Farhan with respect to Ekta?

- Second to the right
- Fourth to the right
- Sixth to the left
- Third to the left

Question No.77

4.00

Bookmark

Decimal reduction time in microbial destruction is

- inversely proportional to Z value
- reaction rate
- universal gas constant
- initial concentration

Question No.78

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 Which of the following groups includes a person who likes tea but is not a grave-digger?

- BD
- DE
- BCE
- None of the above

Question No.79

4.00

Bookmark

Choose the correct meaning of the italicized idiom.
The police *cordoned off* the area after the explosion.

- isolated the area
- did not allow anyone to leave the area
- checked everyone in the area
- filled the whole area

Question No.80

4.00

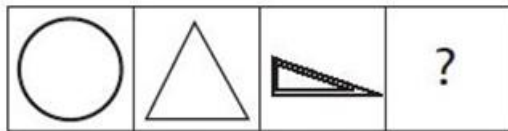
Bookmark

In thermal processing decimal reduction time refers to the time required to destroy this percent level of microorganism

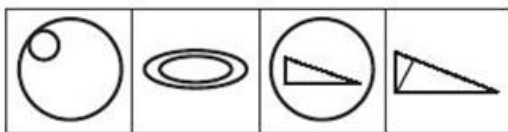
- 100
- 10
- 50
- 90

Question No.81

4.00

Bookmark 

A B C D



(1) (2) (3) (4)

- 1
- 3
- 2
- 4

Question No.82

4.00

Bookmark

Which bean is used for extraction of gum?

- cluster bean
- broad bean
- french bean
- hyacinth bean

Question No.83

4.00

Bookmark

Which hydrocolloid shows milk reactivity

- Gum Arabic
- Carrageenan
- Tragacanth
- Guar gum

Question No.84

4.00

Bookmark

Which method is not a non-thermal processing?

- Cold Plasma
- Ohmic heating
- Pulsed light
- Ultrasound

Question No.85

4.00

Bookmark

The basal metabolic rate (BMR) is the energy needed by a resting individual. The factors with the least effect on the BMR is the

- mental activity of the subject
- body composition of the individual
- age of the subject
- sex of the individual

Question No.86

4.00

Bookmark

Which of the following foods is rich in omega-3 fatty acids?

- fatty fish
- butter
- lard
- olive oil

Question No.87

4.00

Bookmark

The moisture content of grains for safe storage is

- 12-15% w.b
- 8-10 % w.b
- 15-20% w.b
- 10-12% w.b

Question No.88

4.00

Bookmark

Fats are insoluble in

- Solvent
- Enzymes
- Preservatives
- Water

Question No.89

4.00

Bookmark

Which number replaces the question mark?



- 2
- 1
- 3
- 4

Question No.90

4.00

Bookmark

This crop is known as Kalpavriksha

- Rubber
- Oilpalm
- Arecanut
- Coconut

Question No.91

4.00

Bookmark

The brown colour of bread crust during baking is due to Maillard reaction between

- starch and yeast
- aldehyde groups of sugars and amino groups of proteins
- aldehyde groups of sugars and salt
- aldehyde groups of sugars and vitamins

Question No.92

4.00

Bookmark

Sucrose is composed of

- two residues of D-glucose
- one residue each of D-glucose and D-fructose
- one residue each of D-glucose and D-galactose
- one residue each of D-galactose and D-fructose

Question No.93

4.00

Bookmark

The preservative that destroys thiamine is

- Propionic acid
- Sulphur dioxide
- Benzoic acid
- Acetic acid

Question No.94

4.00

Bookmark

Dose of irradiation used for the control of sprouting of potato and onions is

- kGy
- 2-5 kGy
- 7-10 kGy
- 0.1 to 0.2 kGy

Question No.95

4.00

Bookmark

If black is called white, white is called red, red is called pink, pink is called green, green is called blue, what would be the colour of human blood?

- White
- Green
- Blue
- Pink

Question No.96

4.00

Bookmark

In capillary viscometer shear stress is proportional to

- flow index
- torque
- pressure drop
- angular velocity

Question No.97

4.00

Bookmark

Statements: Buses are cars. Cycles are cars

Conclusion:

I. Cars are buses

II. Buses are Cycles

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

Question No.98

4.00

Bookmark

In a multiple effect evaporator concentration of liquid food is difficult in the last effect because

- vacuum level is low
- temperature is low
- flow rate is reduced
- viscosity of liquid is high

Question No.99

4.00

Bookmark

Percentage of bran removed from paddy is

- 5
- 10
- 8
- 2

Question No.100

4.00

Bookmark

At their isoelectric point proteins have

- no positively charged groups
- no negatively charged groups
- no ionized groups
- equal numbers of positively and negatively charged groups