

SAMSAMPLE QUESTIONS

English

Question 1:

Choose the correct verb to fill the gap. By the end of the year, she _____ with a degree in business.

1. already graduates
2. already graduated
3. will have already graduated
4. has already graduated

Question 2:

Choose the synonym for the following word Hallowed

1. Sacred
2. Old
3. Inactive
4. Effective

Question 3:

As _____ cuts it as well as he does, I always have my hair cut at Johnson's.

1. anyone
2. someone else's
3. no one else
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Question 4:

Mohit _____ his century before it is the end of the match.

1. will score
2. will have scored
3. has scored
4. scores

Question 5:

Which word is a adverb in this sentence?

There are no interesting programmes tonight.

1. interesting
2. programmes
3. there
4. tonight

Pharmacy

Question 1

Artificial microscopic bilayer vesicles are:-

1. Liposomes
2. Implants
3. Resealed erythrocytes
4. Microcapsules

Question 2

When solid particles are up to 25% in a liquid, the preferred filter to separate particles is:-

1. Edge filter
2. Plate & frame filter
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A patient is renally impaired his renal function is half of the normal person. The dosing interval is:-

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Helium pyrometer is used to measure:-

1. Particle distribution in aerosols
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3% w/v solution contains:-

1. 3 grams of solute in 100 ml of the solvent
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Which primitive reflex is the first to integrate in a child?

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Frequency range for High TENS is:-

1. 100 and 150 Hz
2. 150 and 200 Hz
3. 50 and 100 Hz
4. 100 and 200 Hz

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Jones fracture is a fracture of:-

1. Fifth metatarsal

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Which mahabhuta combination is responsible for the formation of Kasaya Rasa?

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If $|z| = |z - 1|$, then:-

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2. $\operatorname{Im}(z) = 1$
3. $\operatorname{Re}(z) = 1/2$
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Question 4:

If the system of equations $x+2y-3z=1$, $(p+2)z=3$, $(2p+1)y+z=2$ is inconsistent, then what is the value of p ?

1. $-1/2$

2. 2
3. -2
4. 0

Question 5:

If $f(x) = |x + 2|$, then:-

1. $f(|x|) = |f(x)|$
2. $f(x+y) = f(x) + f(y)$
3. $f(x.y) = f(x).f(y)$
4. None of these

Biotech

Question 1

What is a smear?

1. A smear is a preparation process in which a specimen is dyed
2. A smear is a process used to identify a specimen
3. A smear is a process in which a specimen is moved beneath a microscope
4. A smear is a preparation process in which a specimen is spread on a slide

Question 2

Why is a bacterium called a prokaryotic organism?

1. A bacterium is a multicell organism that does not have a distinct nucleus
2. A bacterium is a multicell organism that has a distinct nucleus
3. A bacterium is a one-cell organism that has a distinct nucleus
4. A bacterium is a one-cell organism that does not have a distinct nucleus

Question 3

What microorganisms can use oxygen when it is present and continue to grow without it?

1. Obligate aerobes
2. Obligate anaerobes
3. Free radicals
4. Facultative anaerobes

Question 4

All of the following associations are true except one:-

1. Poliovirus can cause paralytic disease
2. Mumps virus can cause meningitis
3. Astrovirus causes gastroenteritis only in adults
4. EBV can cause nasopharyngeal carcinoma

Question 5

Which of the following is most effective for sterilizing mattresses and plastic Petri plates?

1. Ethylene oxide
2. Ultraviolet radiation
3. Autoclave
4. Chlorine

Microbiology

Question 1

Following person recognised the significance of microbes in disease for the first time:-

1. Louis Pasteur
2. Kircher
3. Robert Koch
4. None of these

Question 2

Germ Theory is:-

1. Germs cannot be killed
2. Presence of pathogen in infected animals
3. Spores
4. None of these

Question 3

Theory of fermentation says that fermentation is the:-

1. Effect of a specific microbe
2. Destruction of microbes
3. Radiation
4. None of these

Question 4

One way to determine the size, cell morphology and grouping of bacterial cells is to:-

1. Streak plate
2. Phenol red
3. Simple stain
4. None of these

Question 5

When many bacterial cells are embedded in a continuous matrix the material is called:-

1. Capsule
2. Microcapsule
3. Slime
4. Spore

Botany

Question 1:

A medullated protostele is

1. Dictyostele
2. Siphonostele
3. Solenostele
4. Protostele

Question 2:

The closed ascocarp is termed:-

1. Apothecium
2. Cleistothecium
3. Perithecium
4. Hysterothecium

Question 3:

In Gymnosperms the only mode of pollination is:-

1. Anemophily
2. Hydrophily
3. Zoophily

4. Entomophily

Question 4:

Double fertilization in angiosperms was discovered by:-

1. J.C. Bose
2. Strasburger
3. Maheshwari
4. Nawaschin

Question 5:

Before a carbohydrate is utilized as an energy source, it gets first converted into:-

1. Oligosaccharide
2. Triose sugars
3. Monosaccharide
4. Disaccharide

Biochemistry

Question 1

Two sugars which differ from one another only in configuration around a single carbon atom are termed as:-

1. Optical isomers
2. Stereoisomers
3. Epimers
4. Anomers

Question 2

In EM pathway enolase converts 2-phosphoglycerate to:-

1. Phospho enol pyruvate
2. Enol pyruvate
3. 1,3 bisphosphoglycerate
4. Dihydroxy acetone phosphate (DHAP)

Question 3

The standard free energy of hydrolysis of terminal phosphate group of ATP is:-

1. - 7,300 cal/mol
2. +7,300 cal/mol
3. 10,000 cal/mol
4. - 8,300 cal/mol

Question 4

Tertiary structure of a protein describes:-

1. Loop regions of proteins

2. The ways of protein folding
3. Location of disulphide bonds
4. The order of amino acids

Question 5

The enzymes of urea synthesis are found in:-

1. Both mitochondria and cytosol
2. Mitochondria only
3. Cytosol only
4. Nucleus

Zoology

Question 1

The Sol-gel nature of protoplasm is due to:-

1. Its colloidal nature
2. Presence of living cell inclusions
3. Pressure of inorganic salts
4. Presence of water

Question 2

What is the latest model that is proposed to explain the structure of plasma membrane or the latest view of molecular organization of biomembrane is based on?

1. Fluid mosaic model
2. Unit membrane model
3. Thin lipid layer concept
4. Artificial model systems

Question 3

The number of autosomes in a human male is:-

1. 43
2. 22 pair
3. 45
4. 46

Question 4

The snakes living in the deserts are mainly:-

1. Aminotelic
2. Uricotelic
3. Ammonotelic
4. Ureotelic

Question 5

Genes are involved in turning on or off the transcription of set of structural genes are called:-

1. Operator genes
2. Redundant genes
3. Polymorphic genes
4. Regulatory genes

Agriculture

Question 1

Farming System Research is not:-

1. Farmer participatory
2. System oriented
3. Client non-specific
4. Gender sensitive

Question 2

Actual mechanism of processes is not disclosed in which Crop Modeling?

1. Stochastic model
2. Statistical empirical model
3. Dynamic model
4. Mechanistic model

Question 3

Glyphosate herbicide trade name is:-

1. Killer
2. Captain
3. Round Up
4. Maxim

Question 4

The botanical name of 6 row barley is:-

1. *Hordeum distichon*
2. *Hordeum vulgare*
3. *Hordeum plantae*
4. *Hordeum irregulare*

Question 5

Legume is characteristic of:-

1. Fabaceae
2. Euphorbiaceae
3. Malvaceae
4. Musaceae

Environmental Sciences

Question 1

Which among of the following is a Sedimentary type of cycle?

1. Nitrogen cycle
2. Carbon cycle
3. Sulphur cycle
4. Oxygen cycle

Question 2

The number of species in a community is called the?

1. Species richness
2. Diversity of species
3. Equal diversity of species
4. Species abundance

Question 3

Environmental disaster that occurred because of release of energy from earth are termed as:

1. Metrological disasters
2. Hydrological disasters

- 3. Man-made disasters
- 4. Geophysical disasters

Question 4

The number of Bio-geographical Zones in India:

- 1. 10
- 2. 7
- 3. 9
- 4. 11

Question 5

Acid rain has pH equal or below:

- 1. 6
- 2. 6.5
- 3. 5.5
- 4. 7

Forensic Sciences

Question 1

Hair can be used for analysis of Metallic poison:

1. Arsenic
2. Antimony
3. Phosphorus
4. Sodium

Question 2

CODIS is:

1. Combined DNA index system
2. Combined Digital Identification system
3. Combined Digital interpretation system
4. None

Question 3

Temporo-parietal suture is found in

1. Pelvis
2. Mandible
3. Long bones
4. Skull

Question 4

Hydrocarbons can be detected by in arson cases.

1. ECD
2. FID
3. PMT
4. None

Question 5

Tongue Flutter is seen in:

1. Drowning cases
2. Throttling cases
3. Hanging cases
4. All of above

Statistics and Data Analytics

Question 1

The value of $\lim_{(x,y) \rightarrow (0,1)} \frac{(y-1)\tan^2 x}{x^2(y^2-1)}$ is equal to:

1. -1
2. -1/2
3. 1/2
4. 12

Question 2

If $f(x,y)$ is a homogeneous function of degree n in x and y having continuous first and second order partial derivatives, then:

1. $x \frac{\partial f}{\partial y} + y \frac{\partial f}{\partial x} = 0$
2. $x \frac{\partial f}{\partial x} + y \frac{\partial f}{\partial y} = nf$
3. $x \frac{\partial f}{\partial x} + y \frac{\partial f}{\partial y} = 0$
4. $x \frac{\partial f}{\partial y} + y \frac{\partial f}{\partial x} = nf$

Question 3

If $r=f_{xx}(a,b)$, $s=f_{xy}(a,b)$, $t=f_{yy}(a,b)$ at a point $P(a,b)$, then the point $P(a,b)$ is said to be point of maxima if and only if:

1. $(rt-s^2) > 0, r > 0$
2. $(rt-s^2) > 0, r < 0$
3. $(rt-s^2) = 0$
4. $(rt-s^2) < 0$

Question 4

If A and B are two independent events, then by law of probability:

1. $P(A \cup B) = P(A) \cdot P(B)$
2. $P(A \cup B) = 1$

3. $P(A \cap B) = P(A) \cdot P(B)$
4. $P(A \cap B) = 0$

Question 5

For a Poisson distribution:

1. Mean > Variance
2. Mean < Variance
3. Mean – Variance = 1
4. Mean = Variance

Clinical Microbiology

Question 1:

The capacity of a given strain of microbial species to produce disease is known as

1. Pathogen
2. Virulence
3. Infection
4. None of these

Question 2:

Factors on which disinfectivity of a disinfectant depends

1. Concentration of substance
2. Time of action
3. pH of medium and temperature suitable for chemical
4. All of the above

Question 3:

Complement based agglutination reaction is known as

1. Haeme agglutination
2. Complement fixation
3. Conglutination
4. Schultz Dale phenomenon

Question 4:

Which of the following is a true statement regarding purified protein derivative (PPD) used in tuberculin test?

1. Prepared from tubercle bacilli
2. It is inferior to old tuberculin
3. Consist of filtrate of glycerol broth
4. None of the above

Question 5:

The event that triggered the development and establishment of microbiology as a science is

1. Germ theory of disease
2. Development of microscope
3. Time of action
4. Use of disinfectant

Clinical Biochemistry

Question 1:

Normality of 1M sulfuric acid is

1. 1.0
2. 0.5
3. 4.0
4. 2.0

Question 2:

Glucose 6-phosphatase is not present in

1. Kidneys and liver
2. Kidneys and muscles

3. Muscles and adipose tissue
4. Muscles and liver

Question 3:

Enzymes catalyzing electron transport are present mainly in the

1. Ribosomes
2. Endoplasmic reticulum
3. Lysosomes
4. Inner mitochondrial membrane

Question 4:

A coenzyme required for synthesis of glycine from serine is

1. Vitamin B6
2. ATP
3. NAD
4. Tetrahydrofolate

Question 5:

Tertiary structure of a protein describes the

1. Specific peptide linkage
2. Location of disulfide bonds

3. Specific way of protein folding and according to the order of amino acids
4. Specific loops

Nutrition and Dietetics

Question 1:

Which of the following is not an external source of recruitment?

1. Walk-ins
2. Professional agencies
3. Word-of-mouth
4. Transfer

Question 2:

Light emitted when a substance is heated is called as

1. Incandescence
2. Lightening
3. Combustion
4. None of these

Question 3:

ICDS was launched in ----- in India

1. 1955
2. 1965
3. 1975
4. 1985

Question 4:

Due to altered renal function, which of the following production increases during pregnancy

1. Urea
2. Creatinine
3. GFR
4. All of the above

Question 5:

Which one of the following statements is incorrect?

1. Introduction of complementary foods too early may give rise to allergic reactions
2. Delayed introduction of complementary foods may give rise to growth faltering
3. Breastfeeding should continue to the age of 2 years or beyond
4. Low-fat and high-fiber diets are appropriate for infants under the age of 2

Embryology & Cell Biology

Question 1:

Which statements best explains the evolutionary advantage of meiosis?

1. Meiosis is necessary for sexual reproduction
2. Meiosis alternates with mitosis from generation to generation
3. The same genetic system is passed on from generation to generation
4. Genetic recombination is possible from generation to generation

Question 2:

The first amino acid incorporated at the N-terminus of polypeptide is _____

1. Methionine
2. Cysteine
3. Tryptophan
4. Valine

Question 3:

Why lysosome is known as “suicidal bags”?

1. Because of its Parasitic activities

2. Because of Presence of food vacuoles
3. Because of its Catalytic activities
4. Because of its Hydrolytic activities

Question 4:

The histone octamer contains

1. 4 histones of four types
2. 5 histones of two types
3. 6 histones three type
4. 8 histones of four types

Question 5:

How the intrinsic proteins in the plasma membrane is distributed?

1. Random
2. Symmetrical
3. Asymmetrical
4. None of the above

Food Science and Technology

Question 1:

What is the active ingredient in baking soda

1. Sodium chloride
2. sodium Bicarbonate
3. Sodium Benzoate
4. Sodium Sulfide

Question 2:

Which of the following is a disadvantage of food processing?

1. Canning of food leads to loss of vitamin C
2. Processed food adds empty calories to food constituting junk
3. Some chemicals make the human and animal cells grow rapidly which is unhealthy
4. All of the mentioned

Question 3:

The heat required to bring down the temperature of the food is directly proportional to

1. Specific heat of the food
2. Weight of the food
3. Temperature difference
4. All of the mentioned

Question 4:

What converts liquid oils into a more solid form?

1. Unsaturated fatty acids
2. Polyunsaturated fatty acids
3. Linoleic acid
4. Hydrogenation

Question 5:

Which nutrient protect your eye sight as you age?

1. Zinc
2. Vitamin C and E
3. Zeaxanthin and lutein from fruits and vegetables
4. All of the above
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2. $\operatorname{Im}(z) = 1$

3. $\operatorname{Re}(z) = 1/2$
4. $\operatorname{Im}(z) = 1/2$

Question 4:

If the system of equations $x+2y-3z=1$, $(p+2)z=3$, $(2p+1)y+z=2$ is inconsistent, then what is the value of p ?

1. $-1/2$
2. 2
3. -2
4. 0

Question 5:

If $f(x) = |x + 2|$, then:-

1. $f(|x|) = |f(x)|$
2. $f(x+y) = f(x) + f(y)$
3. $f(x.y) = f(x).f(y)$
4. None of these

Biotech

Question 1

What is a smear?

1. A smear is a preparation process in which a specimen is dyed
2. A smear is a process used to identify a specimen
3. A smear is a process in which a specimen is moved beneath a microscope

4. A smear is a preparation process in which a specimen is spread on a slide

Question 2

Why is a bacterium called a prokaryotic organism?

1. A bacterium is a multicell organism that does not have a distinct nucleus
2. A bacterium is a multicell organism that has a distinct nucleus
3. A bacterium is a one-cell organism that has a distinct nucleus
4. A bacterium is a one-cell organism that does not have a distinct nucleus

Question 3

What microorganisms can use oxygen when it is present and continue to grow without it?

1. Obligate aerobes
2. Obligate anaerobes
3. Free radicals
4. Facultative anaerobes

Question 4

All of the following associations are true except one:-

1. Poliovirus can cause paralytic disease
2. Mumps virus can cause meningitis
3. Astrovirus causes gastroenteritis only in adults
4. EBV can cause nasopharyngeal carcinoma

Question 5

Which of the following is most effective for sterilizing mattresses and plastic Petri plates?

1. Ethylene oxide
2. Ultraviolet radiation
3. Autoclave
4. Chlorine

Microbiology

Question 1

Following person recognised the significance of microbes in disease for the first time:-

1. Louis Pasteur
2. Kircher
3. Robert Koch
4. None of these

Question 2

Germ Theory is:-

1. Germs cannot be killed
2. Presence of pathogen in infected animals
3. Spores
4. None of these

Question 3

Theory of fermentation says that fermentation is the:-

1. Effect of a specific microbe
2. Destruction of microbes
3. Radiation
4. None of these

Question 4

One way to determine the size, cell morphology and grouping of bacterial cells is to:-

1. Streak plate
2. Phenol red
3. Simple stain
4. None of these

Question 5

When many bacterial cells are embedded in a continuums matrix the material is called:-

1. Capsule
2. Microcapsule
3. Slime
4. Spore

Botany

Question 1:

A medullated protostele is

1. Dictyostele
2. Siphonostele

3. Solenostele
4. Protostele

Question 2:

The closed ascocarp is termed:-

1. Apothecium
2. Cleistothecium
3. Perithecium
4. Hysterothecium

Question 3:

In Gymnosperms the only mode of pollination is:-

1. Anemophily
2. Hydrophily
3. Zoophily
4. Entomophily

Question 4:

Double fertilization in angiosperms was discovered by:-

1. J.C. Bose
2. Strasburger
3. Maheshwari
4. Nawaschin

Question 5:

Before a carbohydrate is utilized as an energy source, it gets first converted into:-

1. Oligosaccharide
2. Triose sugars
3. Monosaccharide
4. Disaccharide

Biochemistry

Question 1

Two sugars which differ from one another only in configuration around a single carbon atom are termed as:-

1. Optical isomers
2. Stereoisomers
3. Epimers
4. Anomers

Question 2

In EM pathway enolase converts 2-phosphoglycerate to:-

1. Phospho enol pyruvate
2. Enol pyruvate
3. 1,3 bisphosphoglycerate
4. Dihydroxy acetone phosphate (DHAP)

Question 3

The standard free energy of hydrolysis of terminal phosphate group of ATP is:-

1. - 7,300 cal/mol
2. +7,300 cal/mol
3. 10,000 cal/mol
4. - 8,300 cal/mol

Question 4

Tertiary structure of a protein describes:-

1. Loop regions of proteins
2. The ways of protein folding
3. Location of disulphide bonds
4. The order of amino acids

Question 5

The enzymes of urea synthesis are found in:-

1. Both mitochondria and cytosol
2. Mitochondria only
3. Cytosol only
4. Nucleus

Zoology

Question 1

The Sol-gel nature of protoplasm is due to:-

1. Its colloidal nature
2. Presence of living cell inclusions

3. Pressure of inorganic salts
4. Presence of water

Question 2

What is the latest model that is proposed to explain the structure of plasma membrane or the latest view of molecular organization of biomembrane is based on?

1. Fluid mosaic model
2. Unit membrane model
3. Thin lipid layer concept
4. Artificial model systems

Question 3

The number of autosomes in a human male is:-

1. 43
2. 22 pair
3. 45
4. 46

Question 4

The snakes living in the deserts are mainly:-

1. Aminotelic
2. Uricotelic
3. Ammonotelic
4. Ureotelic

Question 5

Genes are involved in turning on or off the transcription of set of structural genes are called:-

1. Operator genes
2. Redundant genes
3. Polymorphic genes
4. Regulatory genes

Agriculture

Question 1

Farming System Research is not:-

1. Farmer participatory
2. System oriented
3. Client non-specific
4. Gender sensitive

Question 2

Actual mechanism of processes is not disclosed in which Crop Modeling?

1. Stochastic model
2. Statistical empirical model
3. Dynamic model
4. Mechanistic model

Question 3

Glyphosate herbicide trade name is:-

1. Killer
2. Captain
3. Round Up
4. Maxim

Question 4

The botanical name of 6 row barley is:-

1. *Hordeum distichon*
2. *Hordeum vulgare*
3. *Hordeum plantae*
4. *Hordeum irregulare*

Question 5

Legume is characteristic of:-

1. Fabaceae
2. Euphorbiaceae
3. Malvaceae
4. Musaceae

Environmental Sciences

Question 1

Which among the following is a Sedimentary type of cycle?

1. Nitrogen cycle
2. Carbon cycle
3. Sulphur cycle
4. Oxygen cycle

Question 2

The number of species in a community is called the?

1. Species richness
2. Diversity of species
3. Equal diversity of species
4. Species abundance

Question 3

Environmental disaster that occurred because of release of energy from earth are termed as:

1. Metrological disasters
2. Hydrological disasters
3. Man-made disasters
4. Geophysical disasters

Question 4

The number of Bio-geographical Zones in India:

1. 10
2. 7
3. 9
4. 11

Question 5

Acid rain has pH equal or below:

1. 6
2. 6.5
3. 5.5
4. 7

Forensic Sciences

Question 1

Hair can be used for analysis of Metallic poison:

1. Arsenic
2. Antimony
3. Phosphorus
4. Sodium

Question 2

CODIS is:

1. Combined DNA index system
2. Combined Digital Identification system
3. Combined Digital interpretation system
4. None

Question 3

Temporo-parietal suture is found in

1. Pelvis
2. Mandible
3. Long bones
4. Skull

Question 4

Hydrocarbons can be detected by in arson cases.

1. ECD
2. FID
3. PMT
4. None

Question 5

Tongue Flutter is seen in:

1. Drowning cases
2. Throttling cases
3. Hanging cases
4. All of above

Statistics and Data Analytics

Question 1

The value of $\lim_{(x,y) \rightarrow (0,1)} \frac{(y-1)\tan^2 x}{x^2(y^2-1)}$ is equal to:

1. -1
2. -1/2
3. 1/2
4. 12

Question 2

If $f(x,y)$ is a homogeneous function of degree n in x and y having continuous first and second order partial derivatives, then:

1. $x \frac{\partial f}{\partial y} + y \frac{\partial f}{\partial x} = 0$
2. $x \frac{\partial f}{\partial x} + y \frac{\partial f}{\partial y} = nf$
3. $x \frac{\partial f}{\partial x} + y \frac{\partial f}{\partial y} = 0$
4. $x \frac{\partial f}{\partial y} + y \frac{\partial f}{\partial x} = nf$

Question 3

If $r=f_{xx}(a,b)$, $s=f_{xy}(a,b)$, $t=f_{yy}(a,b)$ at a point $P(a,b)$, then the point $P(a,b)$ is said to be point of maxima if and only if:

1. $(rt-s^2) > 0, r > 0$
2. $(rt-s^2) > 0, r < 0$
3. $(rt-s^2) = 0$
4. $(rt-s^2) < 0$

Question 4

If A and B are two independent events, then by law of probability:

1. $P(A \cup B) = P(A) \cdot P(B)$
2. $P(A \cup B) = 1$
3. $P(A \cap B) = P(A) \cdot P(B)$
4. $P(A \cap B) = 0$

Question 5

For a Poisson distribution:

1. Mean > Variance
2. Mean < Variance
3. Mean – Variance = 1
4. Mean = Variance

Clinical Microbiology

Question 1:

The capacity of a given strain of microbial species to produce disease is known as

1. Pathogen
2. Virulence
3. Infection
4. None of these

Question 2:

Factors on which disinfectivity of a disinfectant depends

1. Concentration of substance
2. Time of action
3. pH of medium and temperature suitable for chemical
4. All of the above

Question 3:

Complement based agglutination reaction is known as

1. Haeme agglutination
2. Complement fixation
3. Conglutination
4. Schultz Dale phenomenon

Question 4:

Which of the following is a true statement regarding purified protein derivative (PPD) used in tuberculin test?

1. Prepared from tubercle bacilli
2. It is inferior to old tuberculin
3. Consist of filtrate of glycerol broth
4. None of the above

Question 5:

The event that triggered the development and establishment of microbiology as a science is

1. Germ theory of disease
2. Development of microscope
3. Time of action
4. Use of disinfectant

Clinical Biochemistry

Question 1:

Normality of 1M sulfuric acid is

1. 1.0
2. 0.5
3. 4.0
4. 2.0

Question 2:

Glucose 6-phosphatase is not present in

1. Kidneys and liver
2. Kidneys and muscles
3. Muscles and adipose tissue
4. Muscles and liver

Question 3:

Enzymes catalyzing electron transport are present mainly in the

1. Ribosomes
2. Endoplasmic reticulum
3. Lysosomes
4. Inner mitochondrial membrane

Question 4:

A coenzyme required for synthesis of glycine from serine is

1. Vitamin B6
2. ATP
3. NAD
4. Tetrahydrofolate

Question 5:

Tertiary structure of a protein describes the

1. Specific peptide linkage
2. Location of disulfide bonds
3. Specific way of protein folding and according to the order of amino acids
4. Specific loops

Question 1:

Which of the following is not an external source of recruitment?

1. Walk-ins
2. Professional agencies
3. Word-of-mouth
4. Transfer

Question 2:

Light emitted when a substance is heated is called as

1. Incandescence
2. Lightening
3. Combustion
4. None of these

Question 3:

ICDS was launched in ----- in India

1. 1955
2. 1965
3. 1975
4. 1985

Question 4:

Due to altered renal function, which of the following production increases during pregnancy

1. Urea
2. Creatinine
3. GFR
4. All of the above

Question 5:

Which one of the following statements is incorrect?

1. Introduction of complementary foods too early may give rise to allergic reactions
2. Delayed introduction of complementary foods may give rise to growth faltering
3. Breastfeeding should continue to the age of 2 years or beyond
4. Low-fat and high-fiber diets are appropriate for infants under the age of 2

Embryology & Cell Biology

Question 1:

Which statements best explains the evolutionary advantage of meiosis?

1. Meiosis is necessary for sexual reproduction
2. Meiosis alternates with mitosis from generation to generation
3. The same genetic system is passed on from generation to generation
4. Genetic recombination is possible from generation to generation

Question 2:

The first amino acid incorporated at the N-terminus of polypeptide is _____

1. Methionine
2. Cysteine
3. Tryptophan
4. Valine

Question 3:

Why lysosome is known as “suicidal bags”?

1. Because of its Parasitic activities
2. Because of Presence of food vacuoles
3. Because of its Catalytic activities
4. Because of its Hydrolytic activities

Question 4:

The histone octamer contains

1. 4 histones of four types
2. 5 histones of two types
3. 6 histones three type
4. 8 histones of four types

Question 5:

How the intrinsic proteins in the plasma membrane is distributed?

1. Random
2. Symmetrical

3. Asymmetrical
4. None of the above

Food Science and Technology

Question 1:

What is the active ingredient in baking soda

1. Sodium chloride
2. sodium Bicarbonate
3. Sodium Benzoate
4. Sodium Sulfide

Question 2:

Which of the following is a disadvantage of food processing?

1. Canning of food leads to loss of vitamin C
2. Processed food adds empty calories to food constituting junk
3. Some chemicals make the human and animal cells grow rapidly which is unhealthy
4. All of the mentioned

Question 3:

The heat required to bring down the temperature of the food is directly proportional to

1. Specific heat of the food
2. Weight of the food
3. Temperature difference
4. All of the mentioned

Question 4:

What converts liquid oils into a more solid form?

1. Unsaturated fatty acids
2. Polyunsaturated fatty acids
3. Linoleic acid
4. Hydrogenation

Question 5:

Which nutrient protect your eye sight as you age?

1. Zinc
2. Vitamin C and E
3. Zeaxanthin and lutein from fruits and vegetables
4. All of the above
- 5.