CT3 APPLIED BIOLOGY

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* Required

Soil structure can be improved by * 1 point

- [ ] nitrate
- [x] gypsum
- [ ] clay
- [ ] nutrients

In biodetectors which of the following is used to pull on antigen antibody bonds with known force * 1 point

- [ ] electromagnets
- [ ] microchips
- [ ] magnetic microbeads
- [x] enzymes

Flagella is made of * 1 point

- [x] Microtubules and plasma membrane
- [ ] Microfilaments and plasma membrane
- [ ] Cytoplasm and plasma membrane
- [ ] Keratin protein and plasma membrane

Hydrogels can be prepared by * 1 point

- [ ] Entanglement
- [ ] Hydrolysis
- [x] Gama rays
- [ ] pH

Which of the following is a striated muscle? * 1 point

- [ ] Smooth
- [ ] Cardiac
- [x] skeletal
- [ ] both smooth & skeletal

Use of __ create specifically designed organisms for bioremediation with great potential * 1 point

- [ ] RNA
- [ ] DNA
- [ ] Genetics
- [x] Genetic engineering

Ultrasound irradiation can be done to change_____ to release drug * 1 point

- [ ] pH
- [x] Photoelectric transmission
- [ ] Temperature
- [ ] Hydrolyze

Thin and Thick filaments in muscles are joined by * 1 point

- [x] A band
- [ ] Peptide
- [ ] H zone
- [ ] Cross bridges

Which one of the following protein is not an extracellular protein? * 1 point

- [x] Keratin
- [ ] Collagen
- [ ] Proteoglycan
- [ ] Elastin

ENFET biosensors is primarily used for detection of * 1 point

- [ ] physical processes
- [ ] Temperature
- [x] glucose concentration
- [ ] drug concentration

How many types of bacterial flagellar arrangements are observed? * 1 point

- [ ] 3
- [ ] 5
- [x] 4
- [ ] 6

Successful biosensors are ___ glucose biosensors * 1 point

- [ ] oxidometric
- [ ] conductometric
- [ ] potentiometric
- [x] amperometric electrochemical

__ grows in a filamentous form towards the contaminant * 1 point

- [ ] bacteria
- [x] fungus
- [ ] virus
- [ ] protozoa

___ utilize methane as its carbon and energy source * 1 point

- [ ] anaerobic bacteria
- [x] aerobic bacteria
- [ ] facultative bacteria
- [ ] methylotropic bacteria

What is your register number? *

RA2112704010015

Foreign body giant cells are made of _____ * 1 point

- [ ] Fibroblasts
- [ ] Neutrophils
- [ ] Astrocytes
- [x] Macrophages

What is your name? *

PONNURI ANIRUDDHA

ATP synthase consists of __ parts * 1 point

- [x] 2
- [ ] 3
- [ ] 5
- [ ] 7

Name the process a cell such as a neutrophil or a macrophage uses to ingest (eat) its prey. * 1 point

- ○ Halitosis
- ○ Chemotaxis
- ○ Botulism
- ◉ Phagocytosis

The process of conversion of pollutants into water and CO2 by microorganism is called * 1 point

- ◉ bioaugmentation
- ○ mineralization
- ○ biosorption
- ○ bioaccumulation

Basal body, hook and filament are present in ___ * 1 point

- ○ cilia
- ◉ flagella
- ○ dynein
- ○ myosin

Which model does cells follow while cell migration takes place? * 1 point

- ○ Nucleus remodeling
- ○ Tau remodeling
- ◉ Actin remodeling
- ○ Centriole remodeling

Which is not used by immune cells to communicate with each other? * 1 point

- ○ prostaglandins
- ○ histamine
- ◉ dopamine
- ○ interleukins

Biosensors used in pregnancy test detect ---------- in urine * 1 point

- ○ Albumin
- ○ Creatinine
- ◉ hCG hormone
- ○ Estrogen

Dyenins exist in __ isoforms * 1 point

- ○ 7
- ○ 3
- ○ 5
- ◉ 2

Which among these properties is not inclusive of scaffold design properties? * 1 point

- ○ Fabrication
- ○ Micro Structure
- ○ Biodegradation
- ◉ Extracellular matrix

What are the primary degradation products of poly glycolic acid? * 1 point

- ○ Glucosamine
- ○ Glycine
- ○ Glycolic acid
- ◉ Lactic acid

Which of the following provides tensile strength for the cell? * 1 point

- ◉ Intermediate filament
- ○ microtubules
- ○ microfilametn
- ○ a and b

Molecular machines are in the range of * 1 point

- ○ Micrometer
- ○ picrometer
- ◉ nanometer
- ○ millimeter

Kinesin and dynein transport _____along microtubule? * 1 point

- ○ Actin
- ○ ATP
- ◉ Cargo
- ○ Myosin

Intermediate filaments are * 1 point

- ○ cylindrical tubules
- ○ thin contractile proteins
- ◉ provide tensile strength for the cell
- ○ help in cellular movement

The enzyme used in glucose biosensor is * 1 point

- ○ hexokinase
- ○ glucogenase
- ◉ glucose oxidase
- ○ glucose reductase

A traditional method to recycle nutrients in garden and yard waste is * 1 point

- [ ] land farming
- [ ] biopiles
- [x] composting
- [ ] bioreactor

Hydrogels can be prepared by cross linking. * 1 point

- [x] True
- [ ] False

What are the primary degradation products of chitosan? * 1 point

- [ ] Glucosamine
- [ ] Glycine
- [x] Oligosaccharides
- [ ] Amines

Which of the following cannot be considered as a bioelement for a biosensor? * 1 point

- [ ] thermal detection
- [x] resonant
- [ ] ion-sensitive
- [ ] electrochemical

The microbes that uses atmospheric oxygen is __ * 1 point

- (●) Aerobes
- ( ) anaerobes
- ( ) methylotrophs
- ( ) phototrophs

Name the cell that is involved in immune response to biomaterials. * 1 point

- (●) Neutrophils
- ( ) Fibrosis
- ( ) Fibroblasts
- ( ) Macrophages

What are the primary degradation products of poly phosphazene? * 1 point

- ( ) Glucosamine
- (●) Phosphate and ammonia
- ( ) Glycolic acid
- ( ) Phosphate and graphene

Microbial activity can be improved by maintaining soil moisture to % * 1 point

- ○ 40-60
- ◉ 50-70
- ○ 80-100
- ○ 80-120

Hydrogel can be designed to contain electron acceptors. * 1 point

- ◉ True
- ○ False

Which is the odd test in the list of invitro tests for biomaterials? * 1 point

- ◉ Direct Contact
- ○ Agar diffusion
- ○ Elution
- ○ Chronic toxicity

Microtubules are composed of * 1 point

- ○ actin
- ○ filament
- ◉ tubulin
- ○ fibres

Microfilaments are made of? * 1 point

- (●) Actin
- ( ) Fibrin
- ( ) Tubulin
- ( ) Cilia

The thick filament in a muscle consist of * 1 point

- (●) myosin
- ( ) actin
- ( ) troponin
- ( ) tropomyosin

Which of the following polymer is natural polymer? * 1 point

- (●) Hyaluronic acid
- ( ) Poly glycolic acid
- ( ) Poly ethylene oxide
- ( ) Poly urethane

What are the primary degradation products of agarose? * 1 point

- ( ) Glucosamine
- ( ) Glycine
- (●) Oligosaccharides
- ( ) Amines

What are the primary degradation products of alginate? * 1 point

- ○ Mannuronic acid and guluronic acid
- ○ Glycine
- ○ Acetic acid
- ◉ Amines

Which one of the following protein is an extracellular protein? * 1 point

- ○ Keratin
- ○ Dynein
- ○ Kinesin
- ◉ Laminin

Peritrichously flagellated cells moves steadily at about__ diameter per second * 1 point

- ◉ 30
- ○ 60
- ○ 70
- ○ 20

What are the primary degradation products of poly lactic acid? * 1 point

- ○ Glucosamine
- ○ Glycine
- ○ Glycolic acid
- ◉ Lactic acid

Globular domain of ATPase motor is made up of _____ * 1 point

- ○ F0
- ◉ F1
- ○ F2
- ○ F3

A long slender projection from the cell body is termed as * 1 point

- ○ cilium
- ◉ flagellum
- ○ cell membrane
- ○ conjugation canal

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