

Section 1 - Section 1

Question No.1

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Bookmark

The Petersen's method of age and growth determination in fishes is based on

- Hard parts
- Length-frequency distribution
- Growth rings
- Length-weight distribution

Question No.2

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Bookmark

Prior to staining, smears of microorganisms are heat-fixed in order to

- kill the organism and attach the organism firmly to the slide
- attach the organism firmly to the slide
- kill the organism
- neither kill the organism nor attach the organism firmly to the slide

Question No.3

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Bookmark

Double fertilization is characteristic of

- Bryophytes
- Gymnosperms
- Monocytes
- Angiosperms

Question No.4

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What is the main excretory material in bony fishes?

- Uric acid
- Ammonia
- Urea
- Protein

Question No.5

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The type of linkage between the monosaccharide units of lactose is

- Beta (1-2) glycosidic bond
- Alpha (1-2) glycosidic bond
- Beta (1-4) glycosidic bond
- Alpha (1-4) glycosidic bond

Question No.6

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Bookmark

Which among the following always have to encounter a hypotonic surrounding medium?

- Teleost fishes
- Cartilaginous fishes
- Fresh water fishes
- Marine fishes

Question No.7

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Bookmark

Due to _____, the subways were closed all morning.

- flood
- are flooded
- floods
- its flooding

Question No.8

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Bookmark

Allergic reactions are related with

- IgD
- IgG
- IgM
- IgE

Question No.9

4.00

Bookmark

The term 'biocoenose' refers to:

- Habitat
- Demecology
- Environmental factors
- Natural community

Question No.10

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Bookmark

Which of the following fish is known as chicken of the sea

- Mackerel
- Barracuda
- Tuna
- Sardine

Question No.11

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Bookmark

The elaters of *Anthoceros* are

- Multicellular
- Elater like cells
- Pseudoelators
- True elaters

Question No.12

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Bookmark

The regulatory enzyme involved in cholesterol biosynthesis is

- HMG CoA reductase
- Acetokinase
- Mevalonate kinase
- HMG CoA synthase

Question No.13

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Bookmark

The zone of shallow water near the shore is called

- Pelagic region
- Neritic province
- Continental shelf
- Oceanic Province

Question No.14

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Bookmark

Based on the information given, answer the below question.

1. A,B,C,D,E and F are travelling in a bus.
2. There are two reporters, two mechanics, one photographer and one writer in the group.
3. Photographer A is married to D who is a reporter.
4. The writer is married to B who is of the same profession as that of F.
5. A,B,C,D are two married couples and no one in this belong to the same profession.
6. F is the brother of C.

Which of the following is the pair of reporters?

- AE
- DE
- Cannot be determined
- DF

Question No.15

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Barbara Mc Clintock is associated with

- Induction of Mutation in by X-rays and gamma rays.
- Deciphering the genetic code
- Double helix model of DNA
- Discovery of transposons

Question No.16

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Bookmark

FO and F1 particles are present in

- Mitochondria
- Ribosome
- Lysosome
- Endoplasmic reticulum

Question No.17

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Bookmark

An alga often seen growing on the shell of a turtle is an example for the relationship called

- Parasitism
- Predation
- Commensalism
- mutualism

Question No.18

4.00

Bookmark

How geological time scale is divided?

- Epoch → Era → Period
- Era → Epoch → Period
- Period → Era → Epoch
- Era → Period → Epoch

Question No.19

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Bookmark

Artificial aquaculture pond can be constructed beyond the seashore

- 600 meters
- 500 meters
- 400 meters
- 300 meters

Question No.20

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Bookmark

The body cavity of *Pheretima posthuma* belongs to

- Eucoel
- Pseudocoel
- Schizocoel
- Enterocoel

Question No.21

4.00

Bookmark

Choose the best synonym of the italicized word.

Reena has an *insatiable* love for music.

- unchanging
- unquenchable
- undesirable
- irreconcilable

Question No.22

4.00

Bookmark

The mother gripped her child's arm _____ he be trampled.

- if
- lest
- unless
- if not

Question No.23

4.00

Bookmark

Scroll valve is present in

- Amia
- Shark
- Lepidosiren
- Sardine

Question No.24

4.00

Bookmark

Identify the adverb in the following sentence:

We looked upwards and saw a bright shooting star

- looked
- upwards
- bright
- shooting

Question No.25

4.00

Bookmark

Study the following information carefully and answer the question below it

The Director of an MBA college has decided that six guest lectures on the topics of Motivation, Decision Making, Quality Circle, Assessment Centre, Leadership and Group Discussion are to be organised on each day from Monday to Sunday.

(i) One day there will be no lecture (Saturday is not that day), just before that day Group Discussion will be organised.

(ii) Motivation should be organised immediately after Assessment Centre.

(iii) Quality Circle should be organised on Wednesday and should not be followed by Group Discussion

(iv) Decision Making should be organised on Friday and there should be a gap of two days between Leadership and Group Discussion

Which of the pairs of lectures were organised on first and last day?

- Group Discussion and Decision Making
- Group Discussion and Quality Circle
- None of these
- Quality Circle and Motivation

Question No.26

4.00

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X is twice as good a workman as Y and together they finish a piece of work in 18 days. In how many days will X alone finish the work?

- 26
- 28
- 27
- 25

Question No.27

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Choose the best antonym of the italicized word.

The task assigned to him was *arduous*.

- absorbing
- good
- easy
- plain

Question No.28

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Bookmark

'The Descent of Man' was written by

- Strasburger
- Spallanzani
- Darwin
- Mendel

Question No.29

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Bookmark

Catadromous migration refers to movement of fishes

- With in sea
- From sea to freshwater
- From freshwater to sea
- With in river

Question No.30

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Bookmark

These poultry belong to Mr. Kishen, our new neighbor
The underlined word is a _____ noun.

- abstract
- collective
- proper
- common

Question No.31

4.00

Bookmark

The maximum number of individuals that can be supported in a habitat at a given time is known as

- Aggregation
- Carrying capacity
- Vital index
- Biotic potential

Question No.32

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Bookmark

EIA is the abbreviated form of

- Ecosystem International Agent
- Ecosystem International Agency
- Environmental Impact Assessment
- Environmental Input Area

Question No.33

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Bookmark

Small internal cell structures are best visualized with a

- Light microscope
- SEM
- TEM
- Dark field microscope

Question No.34

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Bookmark

During monsoon ground becomes slippery because of

- Blue-green algae
- Fungi
- Liver worts
- Mosses

Question No.35

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Bookmark

Number of larval stages in *P. monodon* is

- 13
- 15
- 9
- 12

Question No.36

4.00

Bookmark

Approximate viscosity of water (Pa.s) at room temperature is about

- 10^{-3}
- 10
- 10^{-1}
- 10^{-5}

Question No.37

4.00

Bookmark

As a country, the United States is _____ that there are five time zones.

- much big
- so big
- too big
- very big

Question No.38

4.00

Bookmark

Monotremes and marsupials are

- Ectothermic
- Poikilothermic
- Heterothermic
- Endothermic

Question No.39

4.00

Bookmark

Advantage of cleistogamy is

- Vivipary
- Higher genetic variability
- More vigorous offspring
- No dependence of pollinators

Question No.40

4.00

Bookmark

The process of fishes feeding on scales of other fishes is termed-

- Adelophagy
- Oophagy
- Lepidophagy
- Lecithophagy

Question No.41

4.00

Bookmark

Corals have symbiotic

- Ulva*
- Zoozanthellae*
- Chlorella*
- Parthenium*

Question No.42

4.00

Bookmark

Seed habit originated in

- Algae
- Bryophytes
- Fungi
- Pteridophytes

Question No.43

4.00

Bookmark

The destruction or removal of all viable organisms is called

- Antisepsis
- Disinfection
- Sanitisation
- Sterilization

Question No.44

4.00

Bookmark

At high altitude, the RBCs in human blood will-

- Increase in number
- Decrease in size
- Decrease in number
- Increase in size

Question No.45

4.00

Bookmark

Tallest canopy structure is shown by

- Tropical deciduous forest
- Temperate broad leaf forest
- Coniferous forest
- Tropical rain forest

Question No.46

4.00

Bookmark

Aristotle's lantern is a complex dental apparatus of

- Sea star
- Sea cucumber
- Sea lily
- Sea urchin

Question No.47

4.00

Bookmark

In Potamodromous migration fishes are moving from

- Marine to fresh water
- Fresh to marine water
- Fresh to fresh water
- Marine to marine water

Question No.48

4.00

Bookmark

Huxley is considered to be the father of which one of the following

- Natural systematics
- Evolutionary systematics
- New systematics
- Artificial systematics

Question No.49

4.00

Bookmark

Kreb's cycle is also known as

- Tricarboxylic acid cycle
- Glycolysis
- Pentose phosphate pathway
- Oxidative phosphorylation

Question No.50

4.00

Bookmark

The muscles of the heart are:

- Involuntary and non-striated
- Involuntary and striated
- voluntary and striated
- Voluntary and smooth

Question No.51

4.00

Bookmark

The number of amino acids present in α - chain and β – chain of the globin of haemoglobin molecule is respectively:

- 146 and 141
- 141 and 146
- 140 and 141
- 37 and 10

Question No.52

4.00

Bookmark

If Milk is water, water is sugar, sugar is road, road is sky and sky is track where do aeroplanes fly?

- Road
- Sky
- Sugar
- Milk

Question No.53

4.00

Bookmark

Myocardial Ischemic heart disease is associated with

- Heart murmur
- Arrhythmia
- Atherosclerosis
- All of these

Question No.54

4.00

Bookmark

Which one of the following growth regulators is known as 'stress hormone'?

- GA₃
- Abscisic acid
- Indole acetic acid
- Ethylene

Question No.55

4.00

Bookmark

One of the two main lymphatic ducts called the thoracic duct opens into

- Right subclavian vein
- Aorta
- Left subclavian vein
- Vena cava

Question No.56

4.00

Bookmark

Bristle : Brush

- Stage: Chairs
- Key: Piano
- Art: Sculpture
- Arm : Leg

Question No.57

4.00

Bookmark

The first codon discovered by Nirenberg and Matthaei was

- GGG
- UUU
- AAA
- CCC

Question No.58

4.00

Bookmark

Michalis constant , K_m of an enzyme is

- the substrate concentration that gives ½ the V_{max}
- Substrate concentration equivalent to V_{max}
- ½ V_{max}
- normal physiological substrate concentration

Question No.59

4.00

Bookmark

Process of hormone injection for the induce breeding of fish is called

- Irradiation
- Abalation
- Hypophysation
- Catheterization

Question No.60

4.00

Bookmark

The electron donor and electron acceptor of *Thiobacillus denitrificans* are

- NH_4^+ , NO_3^-
- NO_2^- , O_2
- H_2 , O_2
- H_2S , NO_3^-

Question No.61

4.00

Bookmark

Bioremediation is

- Crop rotation to improve soil fertility
- Controlling pest by natural enemies
- Using bacteria to purify polluted environment
- Controlling pest by using micro organism

Question No.62

4.00

Bookmark

Ustilago tritici produces infectious

- Basidiospores
- Conidia
- Ascospores
- Chlamydo spores

Question No.63

4.00

Bookmark

The unique feature of birds that allows them to always breathe fresh air is the

- bronchi
- parabronchi
- spiracles
- bronchioles

Question No.64

4.00

Bookmark

Organisms that use reduced, preformed organic molecules as carbon sources are

- Auxotrophs
- Heterotrophs
- Prototrophs
- Autotrophs

Question No.65

4.00

Bookmark

A medusa of Cnidaria is

- Free swimming and asexually reproducing
- Free swimming and sexually reproducing
- Sessile and asexually reproducing
- Free swimming and not reproducing

Question No.66

4.00

Bookmark

Tetradynamous stamen is present in the members of the family

- Acanthaceae
- Apocyanaceae
- Brassicaceae
- Lamiaceae

Question No.67

4.00

Bookmark **Assertion:** Crude oil is abundantly found in nature**Reason:** It is the main raw material for all automobiles

- Both A and R are true and R is the correct explanation of A
- A is true but R is false
- A is false but R is true
- Both A and R are true and R is not the correct explanation of A

Question No.68

4.00

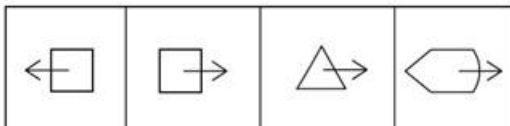
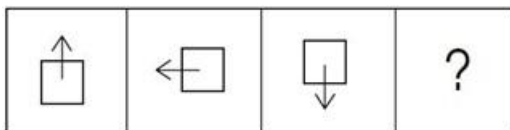
Bookmark

Which of the following is not true of bacterial plasmids?

- They may carry genes for drug resistance.
- They can exist and replicate independently of the chromosome.
- They are required for host growth and/or reproduction.
- They may carry genes that enhance the metabolic capabilities of the bacterium.

Question No.69

4.00

Bookmark 

(A) (B) (C) (D)

- D
- A
- C
- B

Question No.70

4.00

Bookmark

The Lactate dehydrogenase (LDH) isoenzyme predominant in muscle is

- M₂H₂
- M₃H
- M₄
- H₄

Question No.71

4.00

Bookmark

In a case of parental care, the female toad lays eggs and the male toad entangles them around his hindlegs. This occurs in

- Alytes
- Ichthyophis
- Rhacophorus
- Amphiuma

Question No.72

4.00

Bookmark

Anand is heavier than Gopal. Mohan is lighter than Jagan. Pandian is heavier than Jagan but lighter than Gopal. Who is the heaviest of all ?

- Gopal
- Jagan
- Pandian
- Anand

Question No.73

4.00

Bookmark

What is the role of flame cells in the helminth worm *Fasciola*?

- Excretion and respiration
- Digestion alone
- Excretion alone
- Digestion and excretion

Question No.74

4.00

Bookmark

Correct the error in the italicized part of the sentence by choosing the most appropriate option.

Whenever the two sisters *go out for shopping*, they take their pet dog with them.

- go out on shopping
- go out shopping
- go out of shopping
- go out to shopping

Question No.75

4.00

Bookmark

In a DNA molecule, the distance between the axis and the sugar phosphate region is about

- 10Å^o
- 34Å^o
- 3.4Å^o
- 20Å^o

Question No.76

4.00

Bookmark

The humoral immune system defends mostly against bacteria and virus in the

- Regions beneath the skin
- Digestive Juice
- Body fluids
- Internal organs

Question No.77

4.00

Bookmark

Choose the missing term: SHG, RIF, QJE, PKD, ?

- OLC
- OLD
- NMD
- MLB

Question No.78

4.00

Bookmark

Which of the following is not an intermediate in TCA cycle?

- Glyceraldehyde-3-phosphate
- Succinate
- Malate
- Oxaloacetate

Question No.79

4.00

Bookmark

The type of enzyme inhibition exhibited by Malonate on Succinate dehydrogenase is

- Competitive Inhibition
- Non-competitive Inhibition
- Uncompetitive Inhibition
- Allosteric Inhibition

Question No.80

4.00

Bookmark

Which of the following resembles clover leaf pattern

- t-RNA
- DNA
- m-RNA
- r-RNA

Question No.81

4.00

Bookmark

Certain B vitamins act as

- Coenzymes
- Hormones
- Neurotransmitters
- Enzymes

Question No.82

4.00

Bookmark

The cells which generate current that help to maintain circulation of sea water in the body of sponge.

- Sclerocytes
- Pinacocytes
- Choanocytes
- Archaeocytes

Question No.83

4.00

Bookmark

Entner - Doudoroff pathway is found in

- Aerobic eukaryotes
- Both (a) and (b)
- Aerobic prokaryotes
- Anaerobic prokaryotes

Question No.84

4.00

Bookmark

The most dominant fish species caught in Bhasabhada fisheries is

- Mugil cephalus*
- Chanos chanos*
- Lates calcarifer*
- Liza tade*

Question No.85

4.00

Bookmark

'Hensen's knot' is present in which one of the following?

- Gastrula of chick
- Blastula of chick
- Gastrula of frog
- Blastula of frog

Question No.86

4.00

Bookmark

How many types of spores are produced by *Puccinia graminis*

- 4
- 3
- 5
- 2

Question No.87

4.00

Bookmark

Agenda 21 is the product of

- The Basel Convention
- Green peace
- Earth Summit
- Montreal protocol

Question No.88

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.

Truthfulness is to *Liar* as *Loyalty* is to?.....

- Devotion
- Falsehood
- Worker
- Traitor

Question No.89

4.00

Bookmark

Mutation that is usually severe, producing a completely non functional protein

- Nonsense
- Point
- Frame shift
- Silent

Question No.90

4.00

Bookmark

The most common method of reproduction in bacteria is

- Budding
- Conjugation
- Fission
- Endospore formation

Question No.91

4.00

Bookmark

Which of the following sets are coelomates

- Wucheraria and Ancylostoma
- Amphioxus and Taenia
- Asterias and Hirudinaria
- Ascaris and Nereis

Question No.92

4.00

Bookmark

Each infectious particle i.e. virion consists of a nucleic acid core surrounded by protein coat to form

- Envelope
- Nucleocapsid
- Capsomere
- All of the above

Question No.93

4.00

Bookmark

The theory which says that seeds of life have come from other planets. It is also known as "Panspermia" is

- Special creation
- Spontaneous generation
- Cosmozoan theory
- Big bang theory

Question No.94

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.

Who is to the immediate left of Aasha?

- Charan
- Aasha
- Ganesh
- Bhuvnesh

Question No.95

4.00

Bookmark

Which one of the following shrimp species is currently popular in aquaculture in India

- Metapenaeus dobsoni*
- Fenneropenaeus indicus*
- Litopenaeus vannamei*
- Peneaus monodon*

Question No.96

4.00

Bookmark

Ecotone refers to

- The zone where two communities meet and blend together
- Subterranean community
- Aquatic community
- All of these

Question No.97

4.00

Bookmark

The jaws, hyoid arch and the cartilages found in the throat are called as

- Splanchnocranium
- Chondrocranium
- Dendrocranium
- Neurocranium

Question No.98

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 above statements is unnecessary?

- Nill
- (ii)
- (iv)
- (iii)

Question No.99

4.00

Bookmark

Which of the following is attributed as the causative agent of EUS?

- Aphanomyces invadans*
- Scolecobasidium humicola*
- Branchiomyces sanguinis*
- Ichthyophonus hoferi*

Question No.100

4.00

Bookmark

Which among the following plasmid was used by Cohen and Boyer for their transformation experiment?

- PUC 17
- pBR322
- pSC 101
- pBMT3