

Section 1 - Section 1

Question No.1

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 following information is not required for the above lecture arrangements?

- Only (i)
- Only (ii)
- Only (iii)
- All are required

Question No.2

4.00

Bookmark

When their father died, their elder brother sold the old house and _____ in a small flat in a far-off suburb

- set them up
- put them down
- set them down
- put them up

Question No.3

4.00

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Well known genetically engineered oil degrading bacterium

- Pseudomonas putida*
- Vibrio fischeri*
- Vibrio alginolyticus*
- Bacillus subtilis*

Question No.4

4.00

Bookmark

What types of food are associated with the diarrheal form of bacillus food poisoning?

- Veggies
- Starchy
- Meat
- Candy

Question No.5

4.00

Bookmark

Robert H. Whitaker proposed five kingdom classification in

- 1665
- 1869
- 1969
- 1979

Question No.6

4.00

Bookmark

A dominant reef building coral in Indo-Pacific

- Pocillopora*
- Acropora*
- Goniopora*
- Pavona*

Question No.7

4.00

Bookmark

The apoprotein specific to LDL is

- apo C
- apo A
- apo D
- apo B

Question No.8

4.00

Bookmark

Crumb : Bread ::

- Flower : Vase
- Splinter : Wood
- Water : Bucket
- Tea : Cup

Question No.9

4.00

Bookmark

Choose the best antonym of the italicized word.

The deliberate *suavity* of Olaf's behavior made the emotions of the audience volatile.

- politeness
- pleasantness
- stupidity
- impetuosity

Question No.10

4.00

Bookmark

The major fishing craft used in fisheries of peninsular India is

- Coracle
- Plank built boat
- Palm-canoe
- Thermocol raft

Question No.11

4.00

Bookmark

Glycogenesis and glycogenolysis are controlled primarily by two hormones

- Fructose kinase and glucose hydrolyase
- Glucagon and glucose hydrolyase
- Insulin and glucagon
- Glycogen synthetase and insulin

Question No.12

4.00

Bookmark

Statement: Ten Candidates, who were on the waiting list could finally be admitted to the course.

Assumptions:

I. A large of number of candidates were on the waiting list.

II. Wait listed candidates do not ordinarily get admission.

- 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.13

4.00

Bookmark

The convention for the conservation and wise use of wetlands and their resources

- Basel convention
- Convention on biological diversity
- Montreal Convention
- Ramsar convention

Question No.14

4.00

Bookmark

The powerful animal model to study retinogenesis is

- Rat
- Rabbit
- Mice
- Zebrafish

Question No.15

4.00

Bookmark

Mermaid purse is

- Egg case of some elasmobranchs
- Pouch in the abdomen of male sea horse
- Parental caring structures of Cichlid fishes
- Space just below the shell in molluscs

Question No.16

4.00

Bookmark

Which of the following phyla is characterized by the absence of the true coelom

- Mollusca
- Echinodermata
- Annelida
- Nematoda

Question No.17

4.00

Bookmark

Gulf Stream is a

- Equatorial under current
- Atlantic counter current
- Western boundary current
- North equatorial current

Question No.18

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Bookmark

Hemoglobin, an iron-containing protein in erythrocytes, binds oxygen molecules. Myoglobin, a protein in muscle cells, is used for oxygen storage. What can be deduced about the relative oxygen affinities of hemoglobin and myoglobin?

- Hemoglobin has greater oxygen affinity than myoglobin
- Myoglobin has greater oxygen affinity than hemoglobin
- Both have roughly the same oxygen affinity
- Neither has a significant oxygen affinity

Question No.19

4.00

Bookmark

Which of the following is a fern like seed bearing gymnospermous fossil group?

- Pentoxyllales
- Cycadofilicales
- Lepidodendrales
- Cordaitales

Question No.20

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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.

What is the profession of Sunita?

- Teacher
- Principal
- Chartered Accountant
- Cannot be determined

Question No.21

4.00

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Order Rhynchocephalia consists of

- Lizards and snakes
- Tuataras
- Turtles and tortoises
- Crocodiles, alligators, caimans

Question No.22

4.00

Bookmark

How many years of continuous data is necessary to predict tide table accurately

- 28
- 26
- 12
- 18

Question No.23

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Bookmark

The terminal electron acceptor during mitochondrial respiration is

- FAD⁺
- ATP
- O₂
- NAD⁺

Question No.24

4.00

Bookmark

The activation of acetoacetate to acetoacetyl CoA is catalyzed by the enzyme

- Thiophorase
- HMG CoA reductase
- Acetyl CoA synthase
- 7-alpha-hydroxylase

Question No.25

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Bookmark

A molecular technique in which DNA sequences between two oligonucleotide primers can be amplified is known as

- Polymerase Chain Reaction
- Southern Blotting
- Northern Blotting
- DNA Replication

Question No.26

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Bookmark

Photosynthetic eukaryote ?

- Fungus
- Algae
- Protozoa
- Bacteria

Question No.27

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The ideal pH range for culture pond water is

- 3.5 – 6.5
- 6.5 – 9.0
- 7.5 – 10.5
- 4.5 – 5.5

Question No.28

4.00

Bookmark

Statement: Apart from its entertainment value of Television, its educational value cannot be ignored

Assumptions:

- I. People take Television to be the means of entertainment only.
- II. The educational value of Television is not realized properly

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

Question No.29

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Bookmark

Nidhi walks 10 metres in front and 10 metres to the right. Then every time turning to her left, she walks 5, 15 and 15 metres respectively. How far is Nidhi now from her starting point?

- 10 metres
- 5 metres
- 15 metres
- None of the above

Question No.30

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- 2
- 4
- 3
- 1

Question No.31

4.00

Bookmark

Choose the best synonym of the italicized word.
Dr. Elango is in the habit of using *obsolete* words.

- difficult
- wrong
- outdated
- simple

Question No.32

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Bookmark

Hawaiian Islands are

- Guyots
- Canyons
- Ocean ridges
- Sea mounts

Question No.33

4.00

Bookmark

By-product of tuna is

- Beche-de-mer
- Masmin
- Shagreen
- Isinglass

Question No.34

4.00

Bookmark

Plastic decomposes after

- 108 years
- 405 years
- 488 years
- 1000 years

Question No.35

4.00

Bookmark

In metal chelation affinity chromatography, a divalent cation, that is attached to the chromatographic matrix must be a

- Fe²⁺, Ca²⁺ or Co²⁺
- Mn²⁺, Zn²⁺ or Co²⁺
- Mn²⁺, Zn²⁺ or Ni²⁺
- Fe²⁺, Zn²⁺ or Mg²⁺

Question No.36

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A photosensitive part of insect ommatidium is

- Crystalline cones
- Pigment cells
- Sensory neuron
- Rhabdome

Question No.37

4.00

Bookmark

Choose the best synonym of the italicized word.

Children of excessively indulgent parents often become very *recalcitrant*.

- insolent
- disobedient
- indolent
- dependent

Question No.38

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Bookmark

The functional kidney of adult fishes is

- Pronephros
- Adnephros
- Mesonephros
- Metanephros

Question No.39

4.00

Bookmark

Which of the following is the most widely used method of induced maturation in shrimps?

- pH manipulation
- Eye stalk ablation
- Hypophysation
- Salinity manipulation

Question No.40

4.00

Bookmark

The product of protoplasm fusion is a _____

- uninucleated cell
- multinucleated cell
- homokaryon
- heterokaryon

Question No.41

4.00

Bookmark

Mollusc inhabiting supra littoral fringe

- Littorina*
- Perna*
- Diadema*
- Babylonia*

Question No.42

4.00

Bookmark

Which of the following bacterial biopesticides is used on a commercial scale for the control of insect pests?

- Streptomyces sp.*
- Bacillus thuringiensis*
- Trichoderma viride*
- Thiobacillus thiooxidans*

Question No.43

4.00

Bookmark

Dissolved inorganic phosphate chiefly exists in the sea as

- Orthophosphate ion
- Phosphonucleotides
- aminophosphoric acid
- Polyphosphate ion

Question No.44

4.00

Bookmark

Current WHO-recommended long-lasting insecticidal nets (LLINs) contain

- Organochlorines
- Pyrethroid insecticides
- Organic Phosphorus Compounds
- Carbamates

Question No.45

4.00

Bookmark

Enzyme that repairs single stranded breaks in double stranded DNA molecules

- DNA ligase
- Polymerases
- Endonucleases
- Exonucleases

Question No.46

4.00

Bookmark

Which of the following RNAs is generally degraded quickly?

- tRNA
- rRNA
- SnRNA
- mRNA

Question No.47

4.00

Bookmark

Which county tops in global fish production?

- Peru
- China
- Japan
- India

Question No.48

4.00

Bookmark

Which of the following fibers binds to the cytoplasmic site of the cell-matrix adherens junctions?

- Elastin
- Actin
- Tubulin
- Reticular

Question No.49

4.00

Bookmark

Ochratoxin is produced as a secondary metabolite by the fungus

- Fusarium*
- Aspergillus*
- Rhizopus*
- Saprolegnia*

Question No.50

4.00

Bookmark

The chemical EDTA is routinely used in many experiments. For example, EDTA is used in electrophoresis buffer solutions. Which of the following statements is not true?

- EDTA has a strong binding affinity for divalent and some trivalent cations
- EDTA is a chelator
- EDTA is a catalyst for polymer formation and essential for protein and nucleic acid polymerization
- EDTA is used to help denature proteins and weaken cell membranes

Question No.51

4.00

Bookmark

Glass sponges belongs to the class

- Calcarea
- Hexactinellida
- Tetractinellida
- Demospongiae

Question No.52

4.00

Bookmark

If A+B means A is daughter of B,
A-B means A is husband of B
A × B means A is brother of B

From the statement A × B × C × D, which of the following statement is not necessarily true?

- C is the brother of A
- A, B, C are male
- B is the brother of A
- D is brother of C

Question No.53

4.00

Bookmark

Scientific name of black lip pearl oyster

- Pinctada imbricata*
- Pinctada fucata*
- Pinctada sugillata*
- Pinctada margaritifera*

Question No.54

4.00

Bookmark

One of the theories of mud banks formation is proposed by

- Sheshappa
- Bristow
- Ekman
- Rhode

Question No.55

4.00

Bookmark

Select the Pair that best represents the relationship that is given in the question:

Explore : Discover

- Tree : Wood
- Think : Relate
- Books : Knowledge
- Research : Learn

Question No.56

4.00

Bookmark

Tar Balls are derived from

- Heavy Metals
- Oil
- Pesticides
- Plastics

Question No.57

4.00

Bookmark

Which of the following is a correct hierarchical sequence for classifying a living organism?

- Kingdom-Domain- Phylum- Order- Class-Family-Genus-Species
- Kingdom- Domain-Phylum-Class-Order-Family-Genus-Species
- Domain-Kingdom-Phylum-Class-Order-Family-Genus-Species
- Domain-Kingdom-Phylum- Order-Class- Family-Genus-Species

Question No.58

4.00

Bookmark

A can finish a work in 18 days and B can do the same work in half the time taken by A. Then, working together, what part of the same work they can finish in a day?

- 0 1/4
- 0 1/6
- 0 1/8
- 0 1/2

Question No.59

4.00

Bookmark

First deep sea fishing policy of India was forwarded in the year

- 2001
- 2004
- 2002
- 2003

Question No.60

4.00

Bookmark

Being awarded the Best Singer in 2010 marked a _____ in her life.

- milestone
- memorial
- yardstick
- sign-post

Question No.61

4.00

Bookmark

Commonly termed as White mangrove

- Rhizophora*
- Avicennia*
- Ceriops*
- Laguncularia*

Question No.62

4.00

Bookmark

Pyridoxal phosphate is a co-factor for which of the following enzymatic reactions

- deamination
- decarboxylation
- Transmethylation
- transamination

Question No.63

4.00

Bookmark

Which theory follows "Ontogeny recapitulates phylogeny"

- Theory of Preformation
- Von Baer's principle
- Recapitulation theory
- Darwin's Ontogeny theory

Question No.64

4.00

Bookmark

The function of cristae in a mitochondrion is

- intake of O₂
- carbon assimilation
- elimination of CO₂
- electron transport and ATP synthesis

Question No.65

4.00

Bookmark

Many bacteria synthesize the vitamin Folic acid from

- para-aminobenzoic acid
- tetrahydrofolate
- tetrahydrofolic acid
- hippuric acid

Question No.66

4.00

Bookmark

What enzyme does a retrovirus primarily rely on to create a copy of its genome that is ready for integration into the host genome?

- DNA gyrase
- Reverse transcriptase
- DNA polymerase
- RNA polymerase

Question No.67

4.00

Bookmark

Orotic acid is a biological precursor of

- Urea
- Purines and pyrimidines
- Adenylic acid and guanylic acid
- Cytidylic acid and Uridylic acid

Question No.68

4.00

Bookmark

The depth of Marianas trench is

- 12042 M
- 10042 M
- 11022 M
- 12012 M

Question No.69

4.00

Bookmark

Which institute has recently devised a methodology for collection of data relating to some important still water area

- CMFRI
- CIBA
- IASRI
- CIFRI

Question No.70

4.00

Bookmark

Janus-green-B is used for staining

- ribosomes
- chloroplast
- mitochondrion
- all of these

Question No.71

4.00

Bookmark

Find the odd one out?

- Debit
- Deduction
- Deposit
- Withdrawal

Question No.72

4.00

Bookmark

In Gastrulation individual cells leave an epithelial sheet and become freely migrating mesenchyme cells

- Ingression
- Involution
- Epiboly
- Invagination

Question No.73

4.00

Bookmark

Which lipid is both a phospholipid and a sphingolipid?

- Sphingomyelin
- Ganglioside
- Sulfatide
- Globoside

Question No.74

4.00

Bookmark

Atmospheric nitrogen biologically fixed as

- Ammonium
- Ammonia
- Nitrite
- Nitrate

Question No.75

4.00

Bookmark

Pneumonia is simply?

- a disease affecting the very young and elderly
- fluid in the lungs
- caused by a wide variety of organisms
- all the above

Question No.76

4.00

Bookmark This is the school where I studied till class 5.
The underlined word is a

- adverb
- adjective
- pronoun
- preposition

Question No.77

4.00

Bookmark

In Elasmobranches, oviducts are called

- Wolffian ducts
- Fallopian tubes
- Mullerian ducts
- Mullerian bodies

Question No.78

4.00

Bookmark

Which of the following toxin causing botulism is less toxic to human beings?

- Type A
- Type B
- Type C
- None of these

Question No.79

4.00

Bookmark

Non feeding larval stage of shrimp

- Subadult
- Nauplius
- Mysis
- Zoea

Question No.80

4.00

Bookmark

BOD/COD ratio will always be

- More than 1
- Equal to 1
- Less than 0.001
- Less than 1

Question No.81

4.00

Bookmark

Photosynthesis is a process in which light energy is converted to chemical energy and used to produce organic compounds within the chloroplasts. It consists of two stages, the light reactions and the dark reactions. Which of the following processes would NOT occur if carbon dioxide was removed from a plant's growth chamber?

- ATP energy forms from the conversion of light energy
- 5-carbon sugars, RuBP, is produced
- NADP⁺ is reduced to NADPH
- photons are absorbed by photosynthetic pigments

Question No.82

4.00

Bookmark

All amino acids except lysine and leucine can be broken down into precursors for gluconeogenesis. What are the products produced by the breakdown of lysine and leucine that prevent them from functioning in that pathway?

- Pyruvate and succinate
- Acetyl- CoA and acetoacetate
- Oxaloacetate and acetyl-CoA
- Succinyl-CoA and acetoacetate

Question No.83

4.00

Bookmark

The cell size is dependent upon

- oxygen supply
- nutrition
- regulation by nucleus
- all of the above

Question No.84

4.00

Bookmark

Which of the following would be most effective for sequencing the exact 5' - end of an mRNA transcript?

- PCR
- Primer extension
- Cloning
- Southern blot

Question No.85

4.00

Bookmark

Study the following information carefully and answer the question below it

Lakshman passes through seven lanes to reach his school. He finds that 'Truth lane' is between his house and 'Lie lane'. The third lane from his school is 'Karma lane'. 'Dharma lane' is immediately before the 'Yog lane'. He passes 'Salvation lane' at the end, 'Lie lane' is between 'Truth lane' and 'Dharma lane', the sixth lane from his house is 'Devotion lane'.

If Lakshman's house, each lane and his school are equidistant and he takes 2 minutes to pass one lane, then how long will he take to reach school from his house?

- 15 minutes
- 14 minutes
- 13 minutes
- 16 minutes

Question No.86

4.00

Bookmark

Which of the following is a Glycosphingolipid?

- Cerebrosides
- Sulphated gangliosides
- Sphingomyelin
- Choline plasmalogen

Question No.87

4.00

Bookmark

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

Job was a tiny man, barely five feet tall, with *a spright walk*

- spright walkingly
- spright walk
- a sprightly walking
- a sprightly walk

Question No.88

4.00

Bookmark

Filariasis is caused when mosquitoes deliver worms that end up blocking ?

- Circulatory system
- Lymphatic system
- Digestive system
- Nervous system

Question No.89

4.00

Bookmark

The function of an electron in the electron transport chain is to

- pump hydrogen ions using complex II
- use its free energy to pump protons against the concentration gradient
- transfer energy from complex II to complex I
- combine with phosphate when ATP is synthesized

Question No.90

4.00

Bookmark

Transposons are known for the _____

- non mobile genetic elements
- mobile genetic elements between non homologous chromosomes
- mobile genetic elements between homologous chromosomes
- recombinant genetic elements

Question No.91

4.00

Bookmark

Any fungal infection of the skin, hair or nails is called a

- Dermaphylosis
- Dermaphytosis
- Mycophytosis
- Hairandnailopsis

Question No.92

4.00

Bookmark

Which of the following are likely to be present in photochemical smog?

- Photochemical oxidants
- Chlorofluorocarbon
- Sulphur dioxide
- Smog

Question No.93

4.00

Bookmark

If radioactive sulfur (^{35}S) is used in the culture medium of bacteria that harbour bacteriophage viruses, it will later appear in:

- viral coats
- viral RNA
- bacterial cell walls
- viral DNA

Question No.94

4.00

Bookmark

Strong waves, fine sediment and flat slope at

- Rolling Beach
- Swash beach
- Dissipative beach
- Reflective beach

Question No.95

4.00

Bookmark

Suppose the lac repressor of E. coli is mutated so that it never binds to the operator. Which of the following is true?

- Glucose digesting enzymes are never produced
- Lactose digesting enzymes are never produced
- The result depends on the concentration of glucose
- Lactose digesting enzymes are always produced

Question No.96

4.00

Bookmark

In plants Photosystem II is located in

- Stroma
- Nucleus
- Grana
- Evenly distributed

Question No.97

4.00

Bookmark

The following is a sulphur containing essential amino acid

- Lysine
- Methionine
- Cystine
- Cysteine

Question No.98

4.00

Bookmark

Polycistronic mRNA

- contains information for amino acid sequences of different polypeptides
- Eukaryotic mRNA is always polycistronic
- nonprotein-coding segment of DNA
- contains information for amino acid sequences of a single polypeptide

Question No.99

4.00

Bookmark

She studies very hard for the exams, _____?

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

Which of the following apoprotein fraction specifically binds LDL receptor?

- apo C-II
- apo A-I
- apo C-1
- apo B-100