

**Section 1 - Section 1****Question No.1**

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?

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

**Question No.2**

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.

- impetuosity
- stupidity
- pleasantness
- politeness

**Question No.3**

4.00

**Bookmark** 

Tricarpellary, syncarpous, inferior ovary with parietal placentation is found in

- Cruciferae
- Ranunculaceae
- Solanceae
- Cucurbitaceae

**Question No.4**

4.00

**Bookmark** 

5<sup>th</sup> June is celebrated as

- World forest day
- World wildlife day
- World population day
- World environment day

**Question No.5**

4.00

**Bookmark** 

She studies very hard for the exams, \_\_\_\_\_?

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

**Question No.6**

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?

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

**Question No.7**

4.00

**Bookmark** 

Which of the following is not the characteristics of histoplasmosis

- Yeasts in tissue
- Specific geographic distribution
- mycelial phase in the soil
- Person to person transmission

**Question No.8**

4.00

**Bookmark** 

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

- yardstick
- memorial
- milestone
- sign-post

**Question No.9**

4.00

**Bookmark** 

This is the school where I studied till class 5.

The underlined word is a

- adjective
- preposition
- adverb
- pronoun

**Question No.10**

4.00

**Bookmark** 

Minamata disease was caused by water pollution by

- Lead
- Bismuth
- Tin
- Mercury

**Question No.11**

4.00

Bookmark 

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

Explore : Discover

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

**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 number of candidates were on the waiting list.

II. Wait listed candidates do not ordinarily get admission.

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

**Question No.13**

4.00

Bookmark 

Which of the following is fungicide?

- 2-4,D
- Bordeaux mixture
- D.D.T
- Auxin

**Question No.14**

4.00

Bookmark 

In callus culture, roots can be induced by the supply of

- Auxin
- Ethylene
- Cytokinin
- Gibberellin

**Question No.15**

4.00

Bookmark 

A clone is a group of individuals obtained through

- Cross-Pollination
- Self-Pollination
- Hybridization
- Vegetative Propagation

**Question No.16**

4.00

Bookmark 

Choose the best synonym of the italicized word.

Dr. Elango is in the habit of using *obsolete* words.

- difficult
- simple
- outdated
- wrong

**Question No.17**

4.00

Bookmark 

Megasporophyll of sellaginella is equal to which structure of angiosperms

- Carpel
- Ovul
- Stem
- Stigma

**Question No.18**

4.00

Bookmark 

Which of the following has peptidoglycan as a major constituent of cell wall?

- Gram-negative bacteria
- Virus
- Gram-positive bacteria
- Fungi

**Question No.19**

4.00

Bookmark 

Megasporophyll in gymnosperms is termed as

- Leaf
- Carpel
- Stem
- Stamen

**Question No.20**

4.00

Bookmark 

Water bloom is generally caused by

- Bacteria
- Hydrilla*
- Blue-green algae
- Green algae

**Question No.21**

4.00

Bookmark 

Birbal sahani is known for

- Dark reaction
- Light reaction
- Evolution
- Fossil

**Question No.22**

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

**Question No.23**

4.00

**Bookmark** 

The cell walls of Gram positive bacteria contain two modified sugar, viz. N- acetylglucosamine (NAG) and N- acetylmuramic acid (NAM). They are covalently linked by

- $\alpha$ - 1,4-glycosidic bond
- $\alpha$ - 1,6-glycosidic bond
- $\beta$ - 1,4-glycosidic bond
- $\beta$ -1,6-glycosidic bond

**Question No.24**

4.00

**Bookmark** 

Plants which are not differentiated into leaf, stem and root are

- Pteridophytes
- Bryophytes
- Thallophytes
- Gymnosperms

**Question No.25**

4.00

**Bookmark** 

The most advanced Gymnosperm is

- Gnetales
- Cycadales
- Coniferales
- Codaitales

**Question No.26**

4.00

**Bookmark** 

- 3
- 1
- 2
- 4

**Question No.27**

4.00

**Bookmark** 

Spore dissemination in fern is done by

- Sorus
- Annulus
- Indusium
- Tapetum

**Question No.28**

4.00

**Bookmark** 

Which are the primitive group of algae

- Cyanophyceae
- Rhodophyceae
- Chlorophyceae
- Pheophyceae

**Question No.29**

4.00

**Bookmark** 

Fern stele is a

- Siphonostele
- Actinostele
- Plectodstete
- Dictyostele

**Question No.30**

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

**Question No.31**

4.00

**Bookmark** 

DNA replication occurs in

- S phase
- M Phase
- G<sub>1</sub> Phase
- G<sub>2</sub> Phase

**Question No.32**

4.00

**Bookmark** 

Seed habit is originated in

- Pteridophytes
- Algae
- Fungi
- Bryophytes

**Question No.33**

4.00

**Bookmark** Which one of the followings is a good indicator of SO<sub>2</sub> pollution?

- Pteridophytes
- Bryophytes
- Fungi
- Lichen

**Question No.34**

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.

What is the profession of Sunita?

- Cannot be determined
- Principal
- Chartered Accountant
- Teacher

**Question No.35**

4.00

**Bookmark** 

Which is most likely to be exposed on the surface of a gram-negative bacterium?

- Lipoteichoic acid
- Aminoacids
- Pore protein (porin)
- Phospholipids

**Question No.36**

4.00

**Bookmark** 

**Statement:** Apart from it's entertainment value of Television, it's 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 only assumption I is implicit
  - If both I and II are implicit
  - If only assumption II is implicit
  - If neither I nor II is implicit

**Question No.37**

4.00

**Bookmark** 

Select the first land plants on the earth from the followings

- Bryophytes
- Algae
- Pteridophytes
- Fungi

**Question No.38**

4.00

**Bookmark** 

The filtering medium of trickling filters is coated with microbial flora, known as

- Geological film
- Zoological film
- Microbial film
- Zoogleal film

**Question No.39**

4.00

**Bookmark** 

Aspergillosis is recognized in tissue by the presence of

- Pseudohyphae
- Metachromatic granules
- Septate hyphae
- Budding cells

**Question No.40**

4.00

**Bookmark** 

Primary development of male and female gametophytes takes place in the sporangia itself in

- Sellaginella
- Fern
- Volvux
- Fungi

**Question No.41**

4.00

**Bookmark** 

In C3 plants first stable product photosynthesis during dark reaction is:

- PGA
- Pyruvic acid
- Oxalo acetic acid
- RuBP

**Question No.42**

4.00

**Bookmark** 

Sporangia bearing leaf is called as

- Indusium
- Sporophyll
- Androecium
- Sorus

**Question No.43**

4.00

**Bookmark** 

Polymerase chain reaction is most useful in

- Protein synthesis
- DNA amplification
- DNA synthesis
- Amino acid synthesis

**Question No.44**

4.00

**Bookmark** 

The process by which phage reproduction is initiated in lysogenized culture is called

- infection
- induction
- integration
- repression



**Question No.45**

4.00

Bookmark 

Pteridophytes are different from bryophytes by

- Archegonia
- Presence of vascular tissue
- Alternate generation
- Sperms

**Question No.46**

4.00

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.47**

4.00

Bookmark 

Which one of the following is one of the characteristics of a biological community?

- Sex ratio
- Stratification
- Death ration
- Natality

**Question No.48**

4.00

Bookmark 

Fist biochemical to be produced commercially by microbial cloning and genetic engineering, is

- Interferon
- Human insulin
- Fertility factor
- Penicillin

**Question No.49**

4.00

Bookmark 

Agar agar is obtained from the followings

- Spirolina
- Gracilaria
- Gelidium
- Nostoc

**Question No.50**

4.00

Bookmark 

A diploid population having individuals with different chromosome numbers ranging from  $2N + 3$  to  $2N - 3$  is a

- Polyploidy
- Triploidy
- Diploidy
- Aneuploidy

**Question No.51**

4.00

Bookmark 

Competition for light, nutrients and space is most severe between

- closely related organisms growing in the same area/niche
- distantly related organisms growing in different niches.
- distantly related organisms growing in the same habitat
- closely related organism growing in different niches

**Question No.52**

4.00

Bookmark 

T-cells and B-cells are called as

- Natural killer cells
- Lymphocytes
- RBCs
- WBCs

**Question No.53**

4.00

Bookmark 

Crumb : Bread ::

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

**Question No.54**

4.00

Bookmark 

What is the percentage of Peptidoglycan in the dry weight of cell wall in many gram positive bacteria?

- Within 20 to 50%
- Above 50%
- 50% or more
- Below 20%

**Question No.55**

4.00

Bookmark 

BOD stands for

- Biotic oxygen demand
- Biochemical oxidation demand
- Biochemical oxygen demand
- Biological oxygen demand

**Question No.56**

4.00

Bookmark 

Immuno-compromised persons are suffered from several fungal diseases. Which of the following is the least frequently associated

- Aspergillus fumigatus*
- Rhizopus sp.*
- Cryptococcus neoformans*
- Mucor* species

**Question No.57**

4.00

**Bookmark** 

Mycorrhiza is the phenomenon of

- Symbiosis
- Antagonism
- Parasitism
- Endemism

**Question No.58**

4.00

**Bookmark** 

The classification given by Bentham and Hooker is

- Natural
- Artificial
- Phylogenetic
- Numerical

**Question No.59**

4.00

**Bookmark** 

Green house effect is warming due to

- infra-red rays reaching earth
- moisture layer in atmosphere
- ozone layer of atmosphere.
- increase in temperature due to increase in carbon dioxide concentration of atmosphere

**Question No.60**

4.00

**Bookmark** 

A woman showing extra Barr bodies in chromosome during amniocentesis is showing that the embryo is associated with:

- Patau's syndrome
- Klinefelter's syndrome
- Down's syndrome
- Edward's syndrome

**Question No.61**

4.00

**Bookmark** 

Gasohol is defined as

- Natural gas
- Hydrogen
- Petrol
- ethanol

**Question No.62**

4.00

**Bookmark** 

Ruminate endosperm is commonly found in the seeds of

- Euphorbiaceae
- Annonaceae
- Cruciferae
- Compositae

**Question No.63**

4.00

**Bookmark** 

Which one of the following is NOT a PCR-based molecular marker?

- RELP
- DAF
- RAPD
- AP-PCR

**Question No.64**

4.00

**Bookmark** 

Zygotic meiosis is the characteristic of

- Bryophytes
- Algae
- Fungi
- Bacteria

**Question No.65**

4.00

**Bookmark** 

The largest sperm is found in the plants of

- Rhynia
- Cycas
- Hydrilla
- Lycopodium

**Question No.66**

4.00

**Bookmark** 

Which of the following nucleic acid is present in hepatitis B virus?

- ssRNA
- ssDNA
- dsRNA
- dsDNA

**Question No.67**

4.00

**Bookmark** 

Energy flow in ecosystem is

- Unidirectional
- Bidirectional
- Tridirectional
- Multidirectional

**Question No.68**

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

**Question No.69**

4.00

Bookmark 

The main constituent of 'Ergot of rye' is

- Phenol
- Alkaloid
- Nucleic acid
- Antibiotic

**Question No.70**

4.00

Bookmark 

Black rust of wheat is caused by

- Rhizopus
- Penicillin
- Puccinia
- Yeast

**Question No.71**

4.00

Bookmark 

The pairing of homologous chromosome occurs in

- Terminalization
- Crossing over
- Tetrads
- Synapsis

**Question No.72**

4.00

Bookmark 

Flagella found all over the body surface of the bacteria is called as

- lophotrichous
- peritrichous
- monotrichous
- Amphitrichous

**Question No.73**

4.00

Bookmark 

Development of egg without fertilization is

- Apomixis
- Apocarypy
- Parthenogenesis
- Parthenocarypy

**Question No.74**

4.00

Bookmark 

Secondary immune response is generated due to

- Naive B cells
- Naive T cells
- NK cells
- Memory cells

**Question No.75**

4.00

**Bookmark** 

Find out the bacteria which lack cell wall and are resistant to penicillin?

- Spirochetes
- Bdellovibrios
- Cyanobacteria
- Mycoplasmas

**Question No.76**

4.00

**Bookmark** 

Which one is considered as man made ecosystems?

- Forest
- Aquarium
- Pond
- Tissue culture

**Question No.77**

4.00

**Bookmark** 

Which of the algae is responsible for red colour in red sea

- Ulothizoneta
- Volvox sp.
- Clamydomonasbrauii
- Trichodesmiumerythrium

**Question No.78**

4.00

**Bookmark** 

Balbani rings are found in the following

- Non-sense chromosomes
- Polysomes
- Autosomes
  
- Polytene chromosomes

**Question No.79**

4.00

**Bookmark** 

Error free repair of double strand breaks in DNA is accomplished by

- Homologous recombination
- Base excision repair
- Mismatch repair
- Non-homologous end joining

**Question No.80**

4.00

**Bookmark** 

Coralloid roots are found in

- Gnetum
- Pinus
- Gingo
- Cycas

**Question No.81**

4.00

**Bookmark** 

Red rust of tea is caused by

- Gymnosperm
- Algae
- A fungus
- Bacterium

**Question No.82**

4.00

**Bookmark** 

Iodine is obtained from

- Volvox
- Laminaria
- Spirolina
- Nostoc

**Question No.83**

4.00

**Bookmark** 

The cocci which forms a chain is

- Streptococci
- Sarcina
- diplococci
- Staphycocci

**Question No.84**

4.00

**Bookmark** 

In a comparative study of grassland ecosystem and pond ecosystem, it may be observed that

- primary and secondary consumers are similar
- the abiotic components are almost similar
- the biotic components are almost similar
- both biotic and abiotic components are different

**Question No.85**

4.00

**Bookmark** 

Find the odd one out?

- Deposit
- Deduction
- Debit
- Withdrawal

**Question No.86**

4.00

**Bookmark** 

Development of sporophytes without involvement of sexual reproduction

- Apogamy
- Apomixis
- Apocarpy
- Apospory

**Question No.87**

4.00

**Bookmark** 

Fungi often colonize lesions due to other causes. Which of the following is least likely to be present as colonizer

- Candida
- Sporothrix
- Aspergillus
- Mucor

**Question No.88**

4.00

**Bookmark** 

Choose the best synonym of the italicized word.

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

- insolent
- dependent
- disobedient
- indolent

**Question No.89**

4.00

**Bookmark** 

Noise pollution is measured by sound meter in the unit of

- Hertz
- Decibel
- Sound
- Joule

**Question No.90**

4.00

**Bookmark** 

Identify the correct type of food chain : dead animal → blow fly maggots → common frog → snake

- Predator food chain
- Detrital food chain
- Decomposer food chain
- Grazing food chain

**Question No.91**

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?

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

**Question No.92**

4.00

**Bookmark** 

White rust of crucifers is caused by

- Phytophthora*
- Puccinia*
- Ustilago*
- Albugo*



**Question No.93**

4.00

**Bookmark** 

The protein from which hook and filaments of flagella are composed of, is

- Flagellin
- Keratin
- Gelatin
- Casein

**Question No.94**

4.00

**Bookmark** 

The last step in synthesis of peptidoglycan is

- attachment of a peptide to muramic acid
- binding of penicillin to a membrane protein
- attachment of a portion of peptidoglycan to a membrane lipid
- attaching two amino acids to form a cross-link

**Question No.95**

4.00

**Bookmark** 

What is the end product of photosynthesis?

- Carbon dioxide
- Glucose and oxygen
- Nitrogen
- Water

**Question No.96**

4.00

**Bookmark** 

Which of the following cell possess poly morphonucleus

- B- cells
- Neutrophils
- macrophage
- erythrocyte

**Question No.97**

4.00

**Bookmark** 

Both heterospory and circinate ptyxis occur in

- Pinus
- Dryopteris
- Cycas
- Funaria

**Question No.98**

4.00

**Bookmark** 

Sargassum belong which group

- Green algae
- Red algae
- Ble green algae
- Brown algae

**Question No.99**

4.00

**Bookmark** 

Megasporangium is also known as

- Sorus
- Fruit
- Nucellus
- Ovule

**Question No.100**

4.00

**Bookmark** 

Which one of the following pairs is mismatched?

- Tundra - permafrost
- Coniferous forest - evergreen trees
- Prairie - epiphytes
- Savanna - acacia trees