



Amrutha

# Biology Mock Test Result

Result	Marks	Percentage	Result Date
Fail	24	40%	15-04-2023

## :- Result Stats

Score	24	Accuracy %	40
Avg Time Per Question	31 Sec	Total Question	60
Total Question Attempted	60	Total Question Answered	60
Correct Answered	24	Total Time of Test	1:10 Hr
Time Spend	30:40 Min	Avg Time On Question	31 Sec
Non Productive Time	-	Benchmark	50

## :- Subject Wise Stats

### BIOLOGY

Total Question	60	Total Question Attempted	60
Total Question Answered	60	Correct Answered	24
Wrong Answered	36	Skipped Question	-
Total Time Spend	30:40 Min	Average Time Spend(per question)	30 Sec
Correct Answered Time	14:24 Min	Wrong Answered Time	16:16 Min
Skipped Question Time	-	-	-

## :- Recommendation

Aww! amrutha you have not pass the exam . Keep your heads up and focus on below points :

- Your question attempt speed is optimal

**Q.No. 1**

Which class Of Algae reproduces asexually by non-motile spores and sexually by non-motile gametes?

- (A) Rhodophyceae
- (B) Phaeophyceae
- (C) Chlorophyceae
- (D) Cyanophyceae

**Status : Wrong Answered**

**Correct Answer : (A)**

**Q.No. 2**

Mac Arthur's vision of 5 related of warblers living on same tree were able to avoid competition and co-exist by behavioural difference. This is an example for:

- (A) competition release
- (B) Resource partitioning
- (C) Competitive exclusion principle
- (D) Adaptive radiation

**Status : Correct Answered**

**Correct Answer : (B)**

**Q.No. 3**

Match the number of nucleotides of genome of Column-I with the of Column-II.

Choose the correct option given below:

Column-I	Column-II
1. 5386 nucleotidesp. E.coli	
2. 48502 bp	q. man
3. $4.6 \times 10^6$ bp	r. Drosophila
4. $3.3 \times 10^9$ bp	s. $\phi \times 174$ bacteriophage t. bacteriophage - lambda

- (A) 1 – s, 2 – q, 3 – p, 4 – t
- (B) 1 – s, 2 – p, 3 – q, 4 – r
- (C) 1 – s, 2 – t, 3 – p, 4 – q
- (D) 1 – r, 2 – t, 3 – s, 4 – p

**Status : Wrong Answered**

**Correct Answer : (C)**

**Q.No. 4**

dsRNA is used to develop pest resistant tobacco plant by a technique called

- (A) Polymerase Chain Reaction (PCR)
- (B) RNA interference (RNAi)
- (C) Electrophoresis
- (D) Insertional Activation

**Status : Wrong Answered**

**Correct Answer : (B)**

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**Q.No. 5**

Silencing of a specific mRNA translation could be achieved through

- (A) Antisense RNA
- (B) RNA interference technique
- (C) Both [A] and [B]
- (D) Microinjection

**Status : Wrong Answered**

**Correct Answer : (C)**

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**Q.No. 6**

In some plants, stigma and anther mature at different times because

- (A) it facilitates cross pollination.
- (B) it prevents cross pollination.
- (C) it facilitates self pollination.
- (D) it attracts pollinators.

**Status : Wrong Answered**

**Correct Answer : (A)**

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**Q.No. 7**

Even in the absence of pollinators, assured seed set will be there in

- (A) Chasmogamous flowers
- (B) Geitonogamy
- (C) Cleistogamous flowers
- (D) Xenogamy

**Status : Correct Answered**

**Correct Answer : (C)**

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**Q.No. 8**

According to Human Genome Project (HGP), the total number of genes in human genome is estimated at 30,000, the number of genes present on Y-chromosome are

- (A) 2898 genes
- (B) 231 genes
- (C) 242 genes
- (D) 2968 genes

**Status : Correct Answered**

**Correct Answer : (B)**

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**Q.No. 9**

In the given options, which one cannot propagate by vegetative means ?

- (A) A marginal piece of bryophyllum leaf A middle internode
- (B) piece of sugarcane
- (C) A piece of potato tuber with eyes
- (D) A piece of ginger rhizome

**Status : Wrong Answered**

**Correct Answer : (B)**

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**Q.No. 10**

The process of decomposition delays when,

- (A) the detritus is made up of sugars and nitrogen compounds
- (B) aeration is sufficient
- (C) warm and moist environment exists.
- (D) detritus is rich in lignin chitin.

**Status : Wrong Answered**

**Correct Answer : (D)**

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**Q.No. 11**

In malignant tumors, the cells divide rapidly and move to distant parts of the body and cause new tumors. This property is called

- (A) Metastasis
- (B) Metagenesis
- (C) Teratogenesis
- (D) Mitosis

**Status : Wrong Answered**

**Correct Answer : (A)**

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**Q.No. 12**

In Bougainvillea and Cucurbita, the axillary bud is modified into thorn and tendril respectively. This is an example of

- (A) Convergent Evolution
- (B) Micro Evolution
- (C) Divergent Evolution
- (D) Co-evolution

Status : **Wrong Answered**

Correct Answer : **(C)**

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**Q.No. 13**

An Amphibians and reptiles, the body temperature changes corresponding to external temperature. The organisms which show this kind of response is termed as -

- (A) Conformers
- (B) Thermophiles
- (C) Regulators
- (D) Partial regulators

Status : **Wrong Answered**

Correct Answer : **(A)**

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**Q.No. 14**

Identify the odd one among the following disorders:

- (A) Thalassemia
- (B) Phenyl Ketonuria
- (C) Sickle-cell Anaemia
- (D) Haemophilia

Status : **Wrong Answered**

Correct Answer : **(D)**

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**Q.No. 15**

Consider the following statements (i), (ii) and (iii) regarding criteria for essentiality of the nutrients in plants:

- (i) The presence of elements is must for plants to complete their life cycle.
- (ii) The role of the element can be replaced by another element.
- (iii) The element must be directly involved in the metabolism of the plant.

Choose the correct statement/s:

- (A) (ii) and (iii)
- (B) (iii) only
- (C) (i) and (ii)
- (D) (i) and (iii)

Status : **Correct Answered**

Correct Answer : **(D)**

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**Q.No. 16**

Polymerisation of DNA nucleotides during the synthesis of lagging strand occurs in:

- (A) 3' → 5' direction
- (B) 5' → 3' direction
- (C) Any direction
- (D) promoter to terminator direction

Status : **Wrong Answered**

Correct Answer : **(B)**

**Q.No. 17**

Identify the correct order of steps involved in Artificial hybridization in plants:

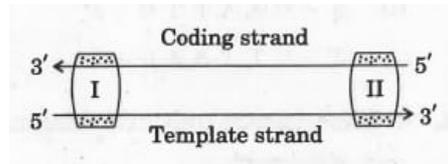
- (A) Bagging Artificial pollination Rebagging Emasculation
- (B) Emasculation Bagging Artificial pollination Rebagging
- (C) Rebagging Artificial pollination Bagging Emasculation
- (D) Artificial pollination Emasculation Rebagging Bagging

Status : **Wrong Answered**

Correct Answer : **(B)**

**Q.No. 18**

In the given transcription unit, identify the regions I and II respectively.



- (A) Promoter and Terminator
- (B) Rho factor and Sigma factor
- (C) Terminator and Promoter
- (D) Operator and Inhibitor

Status : **Wrong Answered**

Correct Answer : **(C)**

**Q.No. 19**

In the following symbols, used in human pedigree Analysis, identify the symbol that denotes consanguineous mating.

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

Status : **Correct Answered**

Correct Answer : **(C)**

**Q.No. 20**

Consider the following morphological, biochemical or physiological characteristics of plants.

- (i) Presence of hairy leaves.
- (ii) Production of more nectar in flower.
- (iii) High sugar content in plant parts.
- (iv) Presence of higher aspartic acid concentration.

Choose the correct combination of statements which give natural resistance to plants against insect pests.

- (A) (ii) and (iii)
- (B) (i) and (iv)
- (C) (i) and (ii)
- (D) (iii) and (iv)

**Status : Correct Answered**

**Correct Answer : (B)**

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**Q.No. 21**

In humans, common cold is caused by:

- (A) Retrovins
- (B) Baculovirus
- (C) Rhinovirus
- (D) Rhabdovirus

**Status : Wrong Answered**

**Correct Answer : (C)**

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**Q.No. 22**

Which among the following is not a functional unit of the ecosystem ?

- (A) Decomposition
- (B) Nutrient cycling
- (C) Energy flow
- (D) Pollution

**Status : Wrong Answered**

**Correct Answer : (D)**

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**Q.No. 23**

Accessory ducts of reproductive system of human female include:

- (A) Oviduct, uterus & vagina
- (B) Oviduct, ovaries & ovarian ligaments
- (C) Oviduct, ovaries & mammary glands
- (D) Ovaries, uterus & vagina

**Status : Wrong Answered**

**Correct Answer : (A)**

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**Q.No. 24**

Identify the odd one from the following :

- (A)  $\alpha$ -Interferon
- (B) Oncogenic virus
- (C) Proto-oncogenes
- (D) UV rays

Status : **Correct Answered**

Correct Answer : **(A)**

**Q.No. 25**

Some multinational companies have exploited the traditional knowledge of the indigenous people to produce commercially important bio products, without their consent. This is an example for

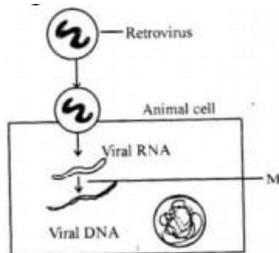
- (A) Bioremediation
- (B) Biopiracy
- (C) Bioprospecting
- (D) Biopatent

Status : **Correct Answered**

Correct Answer : **(B)**

**Q.No. 26**

Identify the enzyme that catalyses the step labelled as 'M' in the given Schematic representation of Replication of retrovirus.



- (A) DNA ligase
- (B) Recombinase
- (C) RNA polymerase
- (D) Reverse transcriptase

Status : **Wrong Answered**

Correct Answer : **(C)**

**Q.No. 27**

The variety of indigenous cows is an example for:

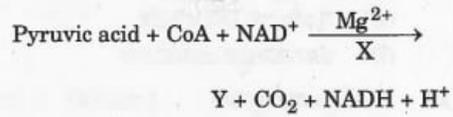
- (A) Genetic diversity
- (B) Species diversity
- (C) Ecological diversity
- (D) Microbial diversity

Status : **Wrong Answered**

Correct Answer : **(A)**

**Q.No. 28**

In the following reaction, identify X and Y respectively



- (A) Water, Acetyl CoA
- (B) Acetyl CoA, Pyruvate dehydrogenase
- (C) Pyruvate dehydrogenase, Acetyl CoA
- (D) Pyruvate dehydrogenase, Oxalo-acetic acid

Status : **Wrong Answered**

Correct Answer : **(C)**

**Q.No. 29**

ABO blood type in man is an example of

- [1] Pleiotropy
- [2] Incomplete dominance
- [3] Co-dominance
- [4] Multiple allelism

Select the code for the correct answer from the options given below :

- (A) 1,2 and 3 only
- (B) 1,3 and 4 only
- (C) 3 and 4 only
- (D) 1,2 and 4 only

Status : **Correct Answered**

Correct Answer : **(C)**

**Q.No. 30**

Choose the possible genotypes responsible for lightest skin colour in human beings.

- (A) AABbCC
- (B) AaBbCc
- (C) aabbcc
- (D) AABbCc

Status : **Wrong Answered**

Correct Answer : **(C)**

**Q.No. 31**

A farmer has applied chemical fertilizers in his crop field for many successive seasons. In the next season, the crop growth was poor as soil lost its fertility. Suggest the suitable micro-organism that replenishes the fertility of soil in his field.

- (A) Spirogyra
- (B) Chlorella
- (C) Nostoc
- (D) Spirulina

**Status : Wrong Answered**

**Correct Answer : (C)**

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**Q.No. 32**

The human protein  $\alpha$ -1 antitrypsin is obtained from:

- (A) transformed bacteria
- (B) transgenic animal
- (C) transgenic plant
- (D) a plant from Western Ghats

**Status : Wrong Answered**

**Correct Answer : (B)**

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**Q.No. 33**

Identify the plants that are dominant Jurassic period.

- (A) Angiosperms and Bryophytes
- (B) Sphenopsida and Ginkgos
- (C) Ferns, Conifers and Cycads
- (D) Monocotyledons and lycopods

**Status : Wrong Answered**

**Correct Answer : (C)**

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**Q.No. 34**

Which of the following nitrogen bases is found only in DNA?

- (A) Guanine
- (B) Thymine
- (C) Adenine
- (D) Cytosine

**Status : Correct Answered**

**Correct Answer : (B)**

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**Q.No. 35**

The anticodon found on the tRNA for tryptophan amino acid is

- (A) ACC
- (B) UGG
- (C) UCC
- (D) CUU

Status : **Correct Answered**

Correct Answer : **(A)**

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**Q.No. 36**

Which Of the following options show the characters Of mycoplasma?

- (A) Smallest living cell without cell wall survive with oxygen.
- (B) Smallest living cell with cell wall survive with oxygen.
- (C) Smallest living cell without cell wall survive without oxygen
- (D) Smallest living cell with cell wall without oxygen.

Status : **Wrong Answered**

Correct Answer : **(C)**

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**Q.No. 37**

Which of the following sequences of mRNA are required for translation process but are not translated ?

- (A) Stop codons
- (B) Anticodons
- (C) Sense codons
- (D) UTR

Status : **Wrong Answered**

Correct Answer : **(D)**

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**Q.No. 38**

The number of ATP molecules utilised for the breakdown of one molecule of glucose during glycolysis is:

- (A) 4
- (B) 2
- (C) 6
- (D) 8

Status : **Wrong Answered**

Correct Answer : **(B)**

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**Q.No. 39**

Microbes like Spirulina can be good alternate to the conventional sources of proteins for human nutrition, because

- (A) they are produced using synthetic fertilisers
- (B) they have high fibre content
- (C) they give more biomass in less time
- (D) their proteins are different from plant proteins

Status : **Correct Answered**

Correct Answer : **(C)**

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**Q.No. 40**

In Prokaryotes, the transcription of DNA is initiated with the help of

- (A) Termination factor
- (B) Sigma factor
- (C) Elongation factor
- (D) Rho factor

Status : **Wrong Answered**

Correct Answer : **(B)**

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**Q.No. 41**

Identify the incorrect statement with reference of Biocontrol agents:

- (A) They do not affect non-target pests
- (B) They are significant in treating ecologically sensitive area
- (C) They help to increase the use of synthetic pesticides
- (D) They do not show any negative impact on crop plants

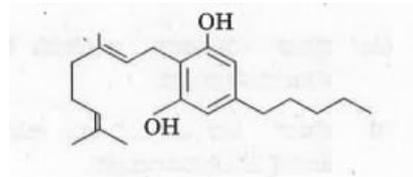
Status : **Correct Answered**

Correct Answer : **(C)**

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**Q.No. 42**

From which of the given plants is the drug whose skeletal structure is given below extracted ?



- (A) Papaver somniferum
- (B) Atropa belladonna
- (C) Cannabis sativa
- (D) Erythroxylum coca

Status : **Correct Answered**

Correct Answer : **(C)**

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**Q.No. 43**

When does the lac-operon in E. coli become “switched on” ?

- (A) Repressor binds to operator
- (B) RNA polymerase binds to operator
- (C) Lactose is present and it binds to the repressor
- (D) Lactose is present and it binds to RNA polymerase

**Status : Wrong Answered**

**Correct Answer : (C)**

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**Q.No. 44**

Pollen grains are generally spherical, measuring about:

- (A) 25-50 micrometers
- (B) 25-50 millimeters
- (C) 25-50 nanometers
- (D) 25-50 centimeters

**Status : Correct Answered**

**Correct Answer : (A)**

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**Q.No. 45**

The type of epithelium found in the inner lining of PCT is

- (A) Squamous epithelium
- (B) Cuboidal epithelium
- (C) Glandular epithelium
- (D) Ciliated epithelium

**Status : Correct Answered**

**Correct Answer : (B)**

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**Q.No. 46**

Read the statements 1 and statements 2. Choose the correct option:

Statement 1 : RNA take place in all prokaryotic and eukaryotic organisms as a Method of cellular defence.

Statement 2 : RNA interference is a pre- translational process.

- (A) Statement-1 incorrect, statement-2 correct.
- (B) Statement-1 correct, statement-2 incorrect.
- (C) Both statements are correct.
- (D) Both statements are incorrect.

**Status : Wrong Answered**

**Correct Answer : (A)**

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**Q.No. 47**

In human females, the number of primary follicles left in each ovary at puberty is:

- (A) 3000 - 30,000
- (B) 30,000 - 60,000
- (C) 60,000 - 80,000
- (D) 1,50,000 - 1,60,000

Status : **Correct Answered**

Correct Answer : **(C)**

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**Q.No. 48**

The primary gases that were used by Miller in his experiment are

- (A) CH<sub>4</sub>, NH<sub>3</sub>, H<sub>2</sub>O, H<sub>2</sub>
- (B) CH<sub>4</sub>, CO<sub>2</sub>, N<sub>2</sub>, SO<sub>2</sub>
- (C) CH<sub>4</sub> CO<sub>2</sub> N<sub>2</sub>, NH<sub>3</sub>
- (D) CH<sub>4</sub>, N<sub>2</sub>, NH<sub>3</sub>, H<sub>2</sub>

Status : **Correct Answered**

Correct Answer : **(A)**

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**Q.No. 49**

Conjunctive tissue is present between (i) and (ii) in (iii) .

- (A) (i) Pericycle (ii) Endodermis (iii) Dicot root
- (B) (i) Xylem (ii) Phloem (iii) Dicot root
- (C) (i) Palisade parenchyma (ii) Spongy parenchyma (iii) Dicot leaf
- (D) (i) Xylem (ii) Phloem (iii) Dicot stem

Status : **Correct Answered**

Correct Answer : **(B)**

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**Q.No. 50**

Choose the correct statement from the following:

- (A) Person with blood group AB can donate blood to person with blood group A.
- (B) Atherosclerosis is often referred as angina pectoris.
- (C) Histamine, Serotonin and Heparin are secreted by basophils.
- (D) Erythroblastosis foetalis may result when foetus is Rh-ve and mother is Rh+ve

Status : **Wrong Answered**

Correct Answer : **(C)**

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**Q.No. 51**

In India the action plans for family planning were initiated in the year:

- (A) 1972
- (B) 1947
- (C) 1951
- (D) 1950

Status : **Correct Answered**

Correct Answer : **(C)**

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**Q.No. 52**

A mature mRNA consists of 900 bases without any stop codon in between. Calculate the number of amino acids coded by this mRNA during translation.

- (A) 450
- (B) 300
- (C) 299
- (D) 900

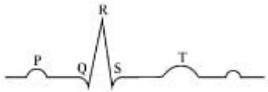
Status : **Wrong Answered**

Correct Answer : **(C)**

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**Q.No. 53**

In the following diagrammatic representation of a standard ECG the 'T' represents.



- (A) Depolarisation Of Atria
- (B) Depolarisation of Ventricles
- (C) Repolarization Of Atria
- (D) Repolarization Of Ventricles

Status : **Wrong Answered**

Correct Answer : **(D)**

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**Q.No. 54**

The hormones of "Fright, Fight and Flight" are

- (A) Thyroxin and Oxytocin
- (B) Thyroxin and Melatonin
- (C) Adrenalin and Nor-adrenalin
- (D) Gastrin and Secretin

Status : **Correct Answered**

Correct Answer : **(C)**

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**Q.No. 55**

In which type of vascular bundles are Xylem and Phloem present at the same radius ?

- (A) Radial
- (B) Closed
- (C) Conjoint
- (D) Exarch

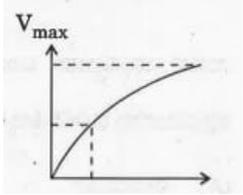
Status : **Correct Answered**

Correct Answer : **(C)**

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**Q.No. 56**

The following graph shows concentration of substrate on enzyme activity :



What does the Y-axis represent ?

- (A) Temperature
- (B) Velocity of reaction
- (C) pH
- (D) Pressure

Status : **Wrong Answered**

Correct Answer : **(B)**

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**Q.No. 57**

Now-a-days agricultural practice is expensive to the farmers as they need to purchase hybrid seeds every year. Which of the following strategies can be employed to overcome this problem?

- (A) Parthenocarpy
- (B) Conventional plant breeding
- (C) Production of Apomictic seeds
- (D) dermatology

Status : **Wrong Answered**

Correct Answer : **(C)**

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**Q.No. 58**

Which of the following characters is not required for autogamy?

- (A) Flowers require synchrony in pollen release and stigma maturation.
- (B) Anthers and stigma should lie close to
- (C) Flowers should be bisexual.
- (D) Required pollination agents.

Status : **Correct Answered**

Correct Answer : **(D)**

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**Q.No. 59**

In blind spot of the human eye

- (A) Only rods are absent.
- (B) Both cones and rods are present.
- (C) Only cones are absent
- (D) Both cones and rods are absent

**Status : Wrong Answered**

**Correct Answer : (D)**

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**Q.No. 60**

If in a normal Menstruating woman, menses occur on 5th April, what will be the expected date of Ovulation?

- (A) 14th April
- (B) 29th April
- (C) 18th April
- (D) 10th April

**Status : Correct Answered**

**Correct Answer : (C)**

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