# BIOLOGY

# BOOKS - A2Z BIOLOGY (HINGLISH)

# MOCK TEST 2

## Exercise

**1.** Fimbriae of fallopian tube

A. Release ovum from Graafian follicle

B. Cause endometrial changes for implantation

C. Help develop corpus luteum

D. Help collection of ovum after ovulation

**Answer: D**

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**2.** Which one of the following features is associated with photorespiration in plants?

A. Occurs in the mitochondria only

B. Conserves energy as ATP

C. Occurs in the dark

D. No ATP synthesis

**Answer: D**

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**3.** Pills have to taken daily for a period of ...a... days starting preferably within the first ...b... days of menstrual cycle. After a gap of ..... days

during which ...d... occurs, it has to be repeated in the same pattern.

A. a-28/29, b-7, c-5, d- ovulation.

B. a-28/29, b 7, c-5, d-menstruation

C. a-21, b-7, c-5, d-menstruation

D. a-21, 6-5, c-7, d-menstruation

**Answer: D**

**4.** Consider the statements given below regarging contrception and answer as directed thereafter:

(1) Medical Termination of Pregnancy (MTP) during first trimester is generally safe

(2) Generally chances of contraception are nil until mother breast-feeds the infant upto two years

(3) Intrauterine devices like copper-T are effective contraceptives

(4) Contraceptive pill may be taken upto one week after coitus to prevent conception

A. a, c

B. a, b

C. b,c

D. c, d

**Answer: A**


**5.** Which layer of uterus undergoes cyclic changes during menstrual cycle

A. Myometrium

B. Endometrium

C. Perimetrium

D. All the above

**Answer: B**

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**6.** After crossing two plants the progeny was found to be male sterile due to maternal

inheritance .The gene for male sterlity resides in

A. Nucleus

B. Chloroplasts

C. Cytoplasm

D. Mitochondria

**Answer: D**

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**7.** When more than one codon code for the same amino acid, this is called as :

A. Redundancy of genetic code

B. Continuous nature of genetic code

C. Punctuation in genetic code

D. Universal nature of genetic code

**Answer: A**

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**8.** The transforming principle of Griffith's experiment was DNA. A very, MacLeod and McCarty was :

A. mRNA

B. DNA

C. Protein

D. Polysaccharide

**Answer: B**

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**9.** Which of the following phloem elements do not have a nucleus but are still functional in transport?

A. Pholem parenchyma

B. Companion cells

C. Pholem fibres

D. Sieve tubes

**Answer: D**

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**10.** Main function of leaf is

A. Acting as template for RNA

B. DNA synthesis

C. Protein synthesis

D. Conversion of DNA to RNA

**Answer: C**

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**11.** STDs which are transmitted by blood transfusion

A. HIV, Hepatitis-B

B. HIV, Hepatitis-B and Genital warts

C. HIV, Hepatitis-B and Genital Herpes

D. All of the above

**Answer: A**

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**12.** Prevention from STDs is possible by

A. Avoid sex with unknown partners/multiple partners

B. Always use condoms during coitus

C. In case of doubt, go to a qualified doctor for early detection

D. All of the above

**Answer: D**

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**13.** In tubectomy, a small part of the fallopian tube is removed or tied up through

A. In the abdomen

B. Through vagina

C. Both A and B

D. Either A or B

**Answer: D**

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**14.** One functional unit of gene which specifies synthesis of one polypeptide is known as

Or

The equivalent of a structural gene

A. Codon

B. Cistron

C. Recon

D. Muton

**Answer: B**

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**15.** The eukaryotic genome differs from the prokaryotic genome because :

A. DNA is circular and single-stranded in prokaryotes

B. Intervening sequences are present in eukaryotic DNA

C. DNA is complexed with histones in prokaryotes

D. DNA is organised into operons in eukaryotes

**Answer: B**

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**16.** Intron in part of DNA which

A. Codes for protein synthesis

B. Helps in joining pieces of DNA

C. Does not code for protein synthesis

D. Initiates transcription

**Answer: C**

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**17.** Bundle sheath cells

A. Are rich is PEP carboxylase

B. Lack Rubisco

C. Lack both Rubisco and PEP carboxylase

D. Are rich in Rubisco

**Answer: D**

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**18.** Streptococcus experiment proves that

A. DNA is genetic material

B. Bacteria undergo binary fission

C. Bacteria do not reproduce sexually

D. At times RNA controls production of DNA and proteins

**Answer: A**

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**19.** Transformation was discovered by

A. Beadle and Tatum

B. Avery et al

C. Khorana

D. Robert Brown

**Answer: B**

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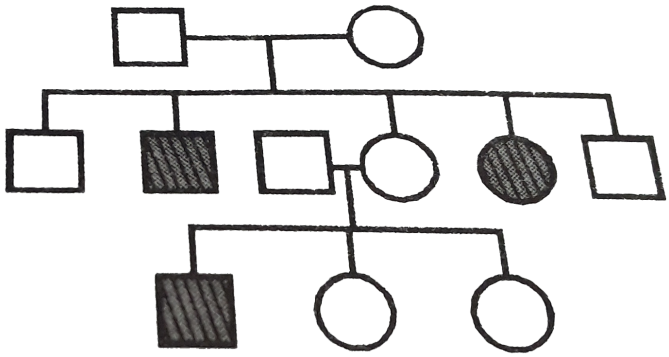
**20.** Study the pedigree chart given below :-



What does it show :-

A. Inheritance of a condition like thalassemia

B. The pedigree chart is wrong as this is not possible

C. Inheritance of a recessive sex-linked disease like haemophilia

D. Inheritance of a sex-linked inborn error of metabornlism like phenylketonuria

**Answer: A**

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**21.** In some viruses, RNA is present instead of DNA indicating that

A. Their nucleic acid must combine with hosts before replication

B. They cannot replicate

C. There is no hereditary information

D. RNA can act to transfer heredity

**Answer: D**

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**22.** Treatment of seed at low temperature under moist conditions to break its dormancy is called

A. Vernalisation

B. Chelation

C. Stratification

D. Scarification

**Answer: C**

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**23.** Which of the following is not a biodiversity hotspot?

A. Indo-Burma

B. Himalaya

C. Gangetic plain

D. Western Ghats and Sri Lanka

**Answer: C**

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**24.** Which type of association is found in between entompophilour flower and pollinating agent ?

A. Commensalism

B. Coevolution

C. Mutualism

D. Cooperation

**Answer: C**

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**25.** Two different species cannot live for long duration in the same niche or habitat. This law is

A. Allen's Law

B. Gause hypothesis

C. Dollos Rule

D. Weismann's theory

**Answer: B**

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**26.** Mimicry is useful for

A. Concealment

B. Protection

C. Predation

D. Both (B) and (C )

**Answer: A**

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**27.** Types of interaction that occur in predation and parasitism are

A. $+, +$

B. $-, -$

C. $+, 0$

D. $+, -$

**Answer: D**

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**28.** Micropyle in seed helps in the entry of

A. Male gamete

B. Pollen tube

C. Water

D. Gases

**Answer: C**

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**29.** Select the wrong statement.

A. Photosynthesis in Anabaena, Oscillatoria as well as Hibiscus in oxygenic.

B. All angiosperms are photoautotrophs.

C. Sugarcane and maize are $C_4$ plants.

D. Calvin cycle is present in both $C_3$ and $C_4$ plants.

**Answer: B**

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**30.** Which of the following forests is known as the 'lungs of the planet earth'?

A. Taiga forest

B. Tundra forest

C. Amazon rain forest

D. Rain forests of North East India

**Answer: C**

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**31.** The species, though insignificant in number, determine the existence of many other species in a given ecosystem. Such species is known as:

A. Extinct species

B. Endemic species

C. Keystone species

D. Sacred species

**Answer: C**

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**32.** Which region is rich in species diversity

A. North Pole

B. Temperate region

C. Tropical region

D. South Pole

**Answer: C**

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**33.** Which of the following countries has the highest biodiversity?

A. Brazil

B. South Africa

C. Russia

D. India

**Answer: A**

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**34.** In eukaryotic cell transcription, capping and tailing of heterogeneous RNA takes place at

A. 3' end and 5' end respectively of hnRNA

B. 5' end and 3' end respectively of mRNA

C. 3' end and 5' end respectively of mRNA

D. 5' end and 3' end respectively of hnRNA

**Answer: D**

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**35.** Homo sapiens/Homo Erectus evolved in

A. Miocene

B. Pliocene

C. Oligocene

D. Pleistocene

**Answer: D**

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**36.** Frequecy of A allele is 0.6 and that of a allele is 0.4 what would be frequency of heterozygotes in random mating polultion?

A. 0.36

B. 0.16

C. 0.24

D. 0.48

**Answer: D**

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**37.** An abnormality not due to recessive gene is

A. Phenylketonuria

B. Alkaptonuria

C. Polydactyly

D. Tay-Sachs syndrome

**Answer: C**

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**38.** The presence of recessive trait in a large population is be $16\%$ the frequency of dominant trait in that population is :-

A. 0.6

B. 0.84

C. 0.32

D. 0.92

**Answer: A**

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**39.** According to one estimate, how many species on the earth have so far been scientifically described?

A. Slightly gt 1.5 million

B. Slightly lt 10 million

C. Slightly gt10 million

D. Slightlylt1.5 million

**Answer: A**

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**40.** Which part of the brain is involved in loss of control when a person drinks alcohol

A. Cerebellum

B. Pons varolii

C. Medulla oblongat

D. Cerebrum

**Answer: A**

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**41.** Stimulant cocaine is obtained from

A. Rauwolfia

B. Erythroxylum

C. Papaver

D. Eucalyptus

**Answer: B**

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**42.** Find the correct order of biomagnification of DDT in an aquatic food chain:

A. Water (0.003 ppm), Zooplankton (0.5 ppm), Small fish (0.04 ppm). Large fish (2 ppm), Fish eating birds (25 ppm)

B. Water (0.003 ppm), Zooplankton (0.04 ppm), Small fish (0.5 ppm), Large fish (2 ppm), Fish eating birds (25 ppm)

C. Water (0.003 ppm), Small fish (0.04 ppm),Zoo plankton (0.5 ppm), Large fish (2 ppm), Fish eating birds (25 ppm)

D. Water (0.003 ppm), Fish eating birds (25 ppm),Zooplankton (0.5 ppm), Small fish (0.04 ppm), Large fish (25 ppm)

**Answer: B**

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**43.** The Amazon rain forest harbouring probably millions of species is being cut and cleared for

A. 7,6,1,4,5,2,3

B. 7,6,4,1,2,5,3

C. 7,5,6,1,3,4,2

D. 7,6,1,3,2,5,4

**Answer: A**

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**44.** "A disease which shows its transmission from unaffected carrier female to some of the male progeny". Find the nature of the trait.

A. Autosomal recessive

B. Autosomal dominant

C. Sex-linked recessive

D. Sex-linked dominant

**Answer: C**

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**45.** 'Histamines" the inflammation producing substances are produced by which cells of the body?

A. Macrophages

B. Sustentacular cells

C. Mast cells

D. Collagen fibres

**Answer: C**

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**46.** Which of the following disease is due to an allergic reaction

A. Goitre

B. Hay Fever

C. Enteric Fever

D. Skin Fever

**Answer: B**

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**47.** Name the genes responsible for making Bt cotton plants resistant to bollworm attack. How do such plants attain resistance against bollworm attacks? Explain.

A. Trichoderma polysporum

B. Clostridium butylicum

C. Xanthomonas citri

D. Bacillus thuringiensis

**Answer: D**

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**48.** The term humor in humoral immunity implies

A. Hormones

B. Bone marrow

C. Plasma and lymph

D. Cerebrospinal fluid

**Answer: C**

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**49.** People administered with preformed antibodies get

A. Active immunity

B. Passive immunity

C. Innate immunity

D. Auto-immunity

**Answer: B**

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**50.** Match the columns.

| | Column A | | Column B |
|---|---|---|---|
| a. | Citric Acid | 1. | Act as competitive inhibitor |
| b. | Statins | 2. | Used in organ-transplant patients |
| c. | Streptokinase | 3. | Produced by *Aspergillus* |
| d. | Cyclosporin A | 4. | Used in patients who have undergone myocardial infarction |

Find the correct matching :

A. a-1,b-2,c-3,d-4

B. a-3,b-4,c-2,d-1

C. a-3,b-1,c-4,d-2

D. a-3,b-4,c-1,d-2

**Answer: C**

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**51.** Consider the statements given below regarging contrception and answer as directed thereafter:

(1) Medical Termination of Pregnancy (MTP) during first trimester is generally safe

(2) Generally chances of contraception are nil until mother breast-feeds the infant upto two years

(3) Intrauterine devices like copper-T are effective contraceptives

(4) Contraceptive pill may be taken upto one week after coitus to prevent conception

A. a,c

B. a,b

C. b,c

D. c, d

**Answer: A**

**52.** Short-lived immunity acquired from mother to foetus across placenta or through mother's milk to the infant is catego- rized as:

A. Active immunity

B. Passive immunity

C. Cellular immunity

D. Innate nonspecific immunity

**Answer: B**

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**53.** Chemically an antibody is

A. Protein

B. Lipoprotein

C. Lipid

D. Nucleoprotein

**Answer: A**

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**54.** Which one of the following statement is correct regarding fluid mosaic model of plasma membrane?

A. Upper layer is polar and hydrophobic

B. Phospholipids form a bimolecular layer in middle part

C. Proteins forma middle layer

D. Upper layer is non-polar and hydrophile

**Answer: A**

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**55.** Parthenocarpic fruits are produced by

A. Treating plants with phenyl mercuric acetate

B. Treating plants with low concentrations of gibberellic acid and auxin

C. Removing androecium of flowers before release of pollen grains

D. Raising plants from vernalised seeds

**Answer: B**

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**56.** Development of seedless fruit in an unfertilized flower called

A. Parthenocarpy

B. Sporophytic budding

C. Polyembryony

D. Micropropagation

**Answer: A**

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**57.** Oil is stored in the endosperm of

A. Groundnut

B. Soyabean

C. Coconut

D. Cashew nut

**Answer: C**

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**58.** Most abundant immunoglobulin is:

A. IgA

B. IgE

C. IgG

D. IgM

**Answer: C**

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**59.** Which one of the following protist is a flagellated parsite?

A. Trypanosoma

B. Entomoeba

C. Euglena

D. Plasmodium

**Answer: A**

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**60.** Humoral immunity is due to

A. T-lymphocytes

B. L-lymphocytes

C. P-lymphocytes

D. B-lymphocytes/Plasma cells

**Answer: D**

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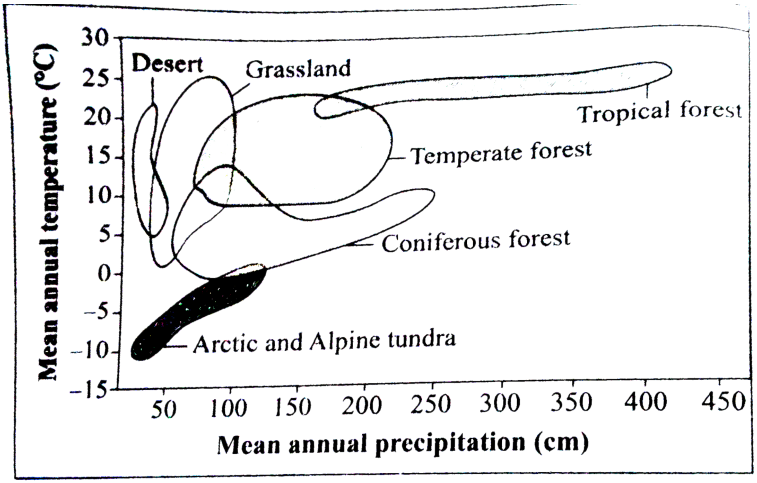
**61.** Which biome shows maximum range of annual precipitation and maximum range of annual temperature respectively ?




A. Tropical forest, Tropical forest

B. Tropical forest, Grassland

C. Tropical forest, Desert

D. Tropical forest, Temperate forest

**Answer: B**

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**62.** Signet ring stage is found in

A. RBCS

B. Gall bladder

C. Alimentary canal of mosquito

D. Salivary gland of mosquito

**Answer: A**

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**63.** Filarial Worm resides in human body in

A. Liver

B. Blood

C. Lymph nodes

D. Spleen

**Answer: C**

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**64.** Which of the following most accurately explains cause of the abnormal numbers of chromosomes during human reproduction that can result in Down's syndrome, Turner's syndrome of Klinefelter's syndrome?

A. The duplicative production of extra chromosome during DNA replication.

B. The abnormal pairing of non-homologous chromosomes during prophase of meiosis I.

C. The selective loss of particular chromosomes form sex cells after formation of the mature gamete.

D. The occurrence of non-disjunction of homologous chromosomes during meiosis

**Answer: D**

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**65.** Ascaris live in the man in

A. Liver

B. Blood

C. Small intestine

D. Large intestine

**Answer: C**

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**66.** Gambusia is a

A. Parasitic Fish

B. Pest of fishes

C. Fish predator of mosquito larvae

D. A mosquito spreading yellow fever

**Answer: C**

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**67.** Which is not a water borne disease ?

A. Asthma

B. Cholera

C. Amoebiasis

D. Typhoid

**Answer: A**

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**68.** A water borne disease is

A. Small pox

B. Tuberculosis

C. Malaria

D. Cholera

**Answer: D**

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**69.** Which of the following disorders is characterized by destructure of the walls of the alveoli producing abnormally large air spaces that remain filled with air during exhalation?

A. Tuberculosis

B. Emphysema

C. Coryza

D. Pneumonia

**Answer: B**

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**70.** Congenital diseases are those which

A. Diseases present at birth

B. Deficiency diseases

C. Spread from one individual to another

D. Occur during life

**Answer: A**

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**71.** A sexually transmitted disease caused by bacteria is

A. Leprosy

B. AIDS

C. Syphilis

D. Pertussis

**Answer: C**

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**72.** A plant disease which is not caused by a fungus is

A. Red rot of Sugarcane

B. Late blight of Potato

C. Black rot of Crucifers

D. Brown rust of Wheat

**Answer: C**

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**73.** Insulin facilitates the

A. Conversion of glucose in glycogen in the adipose tissue

B. Conversion of fats into fatty acids in the adipose tissue

C. Conversion of glucose in glycogen in the liver

D. Conversion of glycogen in glucose in the liver

**Answer: C**

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**74.** Bacterial leaf blight of Rice is caused by

A. Xanthomonas

B. Pseudomonas

C. Phytophthora

D. Gibberella

**Answer: A**

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**75.** Powdery mildew of Pea is caused by

A. Erysiphe

B. Puccinia

C. Alternaria

D. Ustilago

**Answer: A**

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**76.** Which of the following is false?

A. Quantity of biomass in a trophic level at a particular period is called as standing crop

B. The energy content in a trophic level is determined by considering a few individuals of a species in that trophic level.

C. The succession that occurs in newly cooled lava is called primary succession.

D. Rate of succession is faster in secondary succession

**Answer: B**

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**77.** Production of human protein in bacteria by genetic engineering is possible because

A. Human chromosome replicate in bacterial cell

B. Mechanism of gene regulation is identical in humans and bacteria

C. Bacterial cell can undertake RNA splicing

D. Genetic code is universal

**Answer: D**

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**78.** Haploid plant cultures are got from

A. Leaves

B. Root tip

C. Pollen grain

D. Buds

**Answer: C**

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**79.** Pomato is

A. Somatic hybrid

B. Natural mutant

C. Androgenic haploid

D. Somatic embryoid

**Answer: A**

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**80.** The relationship between two organisms in which one obtains some benefit at the expense of the other is called :

A. Parasitism

B. Symbiosis

C. Predation

D. Commensalism

**Answer: A**

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**81.** Which animal listed below can survive both in marine as well as fresh water?

A. Petromyzon

B. Labeo

C. Exocoetus

D. Torpedo

**Answer: A**

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**82.** The term "ecology" was given by

A. Linnaeus

B. Haeckel

C. Harvey

D. Odum/Lamarck

**Answer: B**

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**83.** Deep black soil is productive, due to high proportion of

A. Sand and Zinc

B. Gravel and Calcium

C. Clay and Humus

D. Silt and Earthworm

**Answer: C**

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**84.** Ecological niche is

A. The surface area of the ocean

B. An ecologically adapted zone

C. The physical position and functional role of a species within the community

D. Formed of all plants and animals living at the bottom of a lake

**Answer: C**

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**85.** The correct sequence of steps in rDNA technology is

A. Isolation of DNA $\rightarrow$ Fragmentation $\rightarrow$ Isolation of desired DNA $\rightarrow$ Ligation Transferring $\rightarrow$ Culturing $\rightarrow$ Extraction

B. Isolation of desired DNA $\rightarrow$ Fragmentation $\rightarrow$ Isoligation of DNA

$\rightarrow$ Culturing $\rightarrow$ Ligation $\rightarrow$ Transferring $\rightarrow$ Extraction

C. Isolation of desired DNA $\rightarrow$ Culturing $\rightarrow$ Fragmentation $\rightarrow$ Isolation of DNA $\rightarrow$ Ligation $\rightarrow$ Transferring $\rightarrow$ Extraction

D. Isolation of DNA $\rightarrow$ Fragmentation $\rightarrow$ Culturing $\rightarrow$ Isolation of desired DNA $\rightarrow$ Transferring $\rightarrow$ Ligation $\rightarrow$ Extraction

**Answer: A**

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**86.** Assertion: Nitrogen is one of the most essential elements of human body.

Reason: All types of prokaryotic organisms are able to fix nitrogen.

A. If both assertion and reason are true and the reason is correct explanation of the assertion.

B. If both assertion and reason are true but reason is not correct explanation of the assertion

C. If assertion is true but reason is false

D. If both assertion and reason are false

**Answer: C**

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**87.** Assertion : DNA is associated with proteins.

Reason : DNA binds around histone proteins that form a pool and the entire structure is called a nucleosome.

A. If both assertion and reason are true and the reason is correct explanation of the assertion.

B. If both assertion and reason are true but reason is not correct explanation of the assertion

C. If assertion is true but reason is false

D. If both assertion and reason are false

**Answer: A**

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**88.** Assertion : Interferons are effective against viruses.

Reason : Proteins which can be synthesized only by genetic engineering are effective against viruses.

A. If both assertion and reason are true and the reason is correct explanation of the assertion.

B. If both assertion and reason are true but reason is not correct explanation of the assertion

C. If assertion is true but reason is false

D. If both assertion and reason are false

**Answer: C**

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**89.** Assertion : The primitive atmosphere was reducing one i.e., without oxygen.

Reason : In the atmosphere, oxygen was involved in forming ozone.

A. If both assertion and reason are true and the reason is correct explanation of the assertion.

B. If both assertion and reason are true but reason is not correct explanation of the

assertion

C. If assertion is true but reason is false

D. If both assertion and reason are false

**Answer: C**

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**90.** Assertion : DNA fingerprinting involves identifying difference is some specific regions in DNA sequence.

Reason: In repetitive DNA sequences , a small stretch of DNA is repeated many times.

A. If both assertion and reason are true and the reason is correct explanation of the assertion.

B. If both assertion and reason are true but reason is not correct explanation of the assertion

C. If assertion is true but reason is false

D. If both assertion and reason are false

**Answer: A**

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