

PROVISIONAL ANSWER KEY

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Question1:-The enzyme involved in TCA cycle which is located in the inner mitochondrial membrane

- A:-Succinate dehydrogenase
 - B:-Isocitrate dehydrogenase
 - C:-Fumarase
 - D:-Malate dehydrogenase
- Correct Answer:- Option-A

Question2:-Multicellular jacketed sex organs are present in

- A:-Chara
 - B:-Puccinia
 - C:-Funaria
 - D:-Psilotum
- Correct Answer:- Option-C

Question3:-Dolipore septum is a characteristic feature of which group of fungi

- A:-Ascomycetes
 - B:-Basidiomycetes
 - C:-Phycomycetes
 - D:-Deuteromycetes
- Correct Answer:- Option-B

Question4:-The source of litmus

- A:-Peltigera
 - B:-Cladonia
 - C:-Rocella
 - D:-Lecanora
- Correct Answer:- Option-C

Question5:-Which of the following is a free living N_2 fixing bacterium?

- A:-Rhizobium
 - B:-Azotobacter
 - C:-Anabaena
 - D:-Agrobacterium
- Correct Answer:- Option-B

Question6:-Low molecular weight antimicrobial compounds produced by plants after exposure to microorganisms or abiotic agents.

- A:-Phenolics
 - B:-Flavonoids
 - C:-Phytoalexins
 - D:-Alkaloids
- Correct Answer:- Option-C

Question7:-The genes which influences two or more phenotypic traits?

- A:-Polygenes
 - B:-Plasmagenes
 - C:-Epistatic genes
 - D:-Pleiotropic genes
- Correct Answer:- Option-D

Question8:-Entry of pollen tube through micropyle is termed

- A:-Porogamy
 - B:-Chalazogamy
 - C:-Mesogamy
 - D:-Geitonogamy
- Correct Answer:- Option-A

Question9:-Cotton belongs to which family?

- A:-Rubiaceae
- B:-Asteraceae
- C:-Malvaceae
- D:-Apocynaceae

Correct Answer:- Option-C

Question10:-The Pteridophyte commonly known as 'resurrection plant'

- A:-Selaginella lepidophylla
- B:-Lycopodium clavatum
- C:-Pteris vittata
- D:-Salvinia natans

Correct Answer:- Option-A

Question11:-Inactive precursor of an enzyme is known as

- A:-Ribozyme
- B:-Allosteric enzyme
- C:-Zymogen
- D:-Isozyme

Correct Answer:- Option-C

Question12:-Raphides are depositions of

- A:-Calcium carbonate
- B:-Calcium oxalate
- C:-Calcium hydroxide
- D:-Calcium phosphate

Correct Answer:- Option-B

Question13:-Crystal violet is an example for

- A:-Basic stain
- B:-Acidic stain
- C:-Vital stain
- D:-Neutral stain

Correct Answer:- Option-A

Question14:-The first sequenced plant

- A:-Zeamays
- B:-Oryza sativa
- C:-Brassica oleraceae
- D:-Arabidopsis thaliana

Correct Answer:- Option-D

Question15:-Taxol obtained from *Taxus buccata* belongs to which class of secondary metabolites?

- A:-Amino-sugar conjugates
- B:-Alkaloids
- C:-Phenolics
- D:-Terpenoids

Correct Answer:- Option-B

Question16:-Descendingly imbricate aestivation is found in

- A:-Mimosae
- B:-Caesalpineaceae
- C:-Papilionaceae
- D:-Apolynaceae

Correct Answer:- Option-C

Question17:-Most resistant organic biopolymer

- A:-Suberin
- B:-Lignin
- C:-Cellulose
- D:-Sporopollenin

Correct Answer:- Option-D

Question18:-Which of the following chemical mutagens causes frame shift mutations?

- A:-Ethyl Methane Sulphonate
- B:-Proflavin
- C:-5-Bromouracil
- D:-Nitrous acid

Correct Answer:- Option-B

Question19:-The bacterium which is known as a natural genetic engineer

A:-Agrobacterium tumifaciens

B:-Pseudomonas putida

C:-Bacillus thuringiensis

D:-Xanthomonas oryzae

Correct Answer:- Option-A

Question20:-Taq DNA polymerase is isolated from

A:-Escherichia coli

B:-Thermus aquaticus

C:-Thiobacillus ferrooxidans

D:-Streptococcus vividans

Correct Answer:- Option-B

Question21:-Who is the author of the book "Origin of Species"?

A:-Linnaeus

B:-Lamarck

C:-Darwin

D:-Mendel

Correct Answer:- Option-C

Question22:-Operant Learning was found by

A:-Skinner

B:-Pavlov

C:-Kohler

D:-Tolmann

Correct Answer:- Option-A

Question23:-Rod shaped bacteria are

A:-Cocci

B:-Bacilli

C:-Spirilla

D:-Vibrio

Correct Answer:- Option-B

Question24:-PPLo are

A:-Bacteria

B:-Virus

C:-Fungi

D:-Mycoplasma

Correct Answer:- Option-D

Question25:-Who discovered Penicillin?

A:-Karl Landsteiner

B:-Alexander Fleming

C:-Nirenberg

D:-Robert Koch

Correct Answer:- Option-B

Question26:-Which organism is the connecting link between Annelid and early Mollusc?

A:-Neomenia

B:-Neopilina

C:-Peripatus

D:-Limulus

Correct Answer:- Option-B

Question27:-Transparency of a water body can be well studied using.

A:-Dredge

B:-Secchi disc

C:-pH meter

D:-Scoop

Correct Answer:- Option-B

Question28:-Natural pacemaker of a human heart

A:-SA Node

B:-AV Node

C:-Purkinje's fibre

D:-Aorta

Correct Answer:- Option-A

Question29:-A person with blood group A can receive blood from

A:-Only A

B:-A and AB

C:-A & O

D:-Only AB & O

Correct Answer:- Option-C

Question30:-What change occurs to oxygen dissociation curve in a person during high metabolism.

A:-ODC remains same

B:-ODC shifts to right

C:-ODC shifts to left

D:-None of the above

Correct Answer:- Option-B

Question31:-Caecilians belongs to

A:-Pisces

B:-Amphibia

C:-Reptiles

D:-Aves

Correct Answer:- Option-B

Question32:-Which among the following river does not drain into the Thanirmukkom Salt water Barriage?

A:-Pampa

B:-Achenkovil

C:-Manimala

D:-Kallada

Correct Answer:- Option-D

Question33:-Where is the Head Quarters of IAEA located?

A:-Vienna

B:-Nairobi

C:-Switzerland

D:-Geneva

Correct Answer:- Option-A

Question34:-Prairies are common in

A:-Africa

B:-North America

C:-Asia

D:-South America

Correct Answer:- Option-B

Question35:-Organelles that absorb and neutralize drugs and toxin are

A:-Lysosomes

B:-Peroxisomes

C:-SER

D:-RER

Correct Answer:- Option-B

Question36:-Haemolysis may occur when a blood cell is placed in a

A:-Isotonic solution

B:-Hypotonic solution

C:-Salt solution

D:-Hypertonic solution

Correct Answer:- Option-B

Question37:-The region of the sarcomere containing the thick filament is the

A:-M line

B:-Z line

C:-I band

D:-A band

Correct Answer:- Option-D

Question38:-At rest active sites of actin in muscle are bound to

A:-Calcium

B:-Troponin

C:-Tropomyosin

D:-Myosin

Correct Answer:- Option-C

Question39:-Which chamber of heart receives blood from pulmonary vein

A:-Left ventricle

B:-Left auricle

C:-Right ventricle

D:-Right auricle

Correct Answer:- Option-B

Question40:- _____ wave represents contraction of ventricle in ECG

A:-P wave

B:-T wave

C:-S wave

D:-QRS wave

Correct Answer:- Option-D

Question41:-The National animal of India

A:-Black buck

B:-Tiger

C:-Lion

D:-Elephant

Correct Answer:- Option-B

Question42:-Total number of mammalian species found in India

A:-300

B:-410

C:-600

D:-1200

Correct Answer:- Option-B

Question43:-Nilgiri Thar is endemic to

A:-North East India

B:-Indian grassland

C:-Western Ghats

D:-Semi arid region

Correct Answer:- Option-C

Question44:-Total mega biodiversity countries of the world

A:-9

B:-12

C:-17

D:-20

Correct Answer:- Option-C

Question45:-The two living examples of monotremes are

A:-Duck billed platypus and Spiny ant eater

B:-Hedge hog and Hare

C:-Kangaroos and opossum

D:-Goat and antelopes

Correct Answer:- Option-A

Question46:-Wetland sites designated internationally for bird conservation

A:-Bird Sites

B:-Ramsar Sites

C:-Nature Sites

D:-None of these

Correct Answer:- Option-B

Question47:-Red Data Book provides the data on

A:-Red flowered plants

B:-Red coloured fishes

C:-List of Plants and Animals

D:-Endangered plant and animals

Correct Answer:- Option-D

Question48:-Which of the following is mainly responsible for the extinction of wildlife?

A:-Pollution of air and water

- B:-Hunting
- C:-Deforestation
- D:-All of the above

Correct Answer:- Option-D

Question49:-In a national park, protection is given to

- A:-The entire flora
- B:-The entire fauna
- C:-The plant and mammals
- D:-The entire ecosystem

Correct Answer:- Option-D

Question50:-The United Nations conference on "Environment and Development" took place at _____ in the year _____

- A:-South Africa, 2002
- B:-Johnnesberg, 2004
- C:-Rio de Janerio, 1992
- D:-Stock hold, 1974

Correct Answer:- Option-C

Question51:-The teak skeltoniser is _____

- A:-Hyblaea puera
- B:-Eutectona macharalis
- C:-None of these
- D:-Both

Correct Answer:- Option-B

Question52:-The percentage, by number, of seeds in a given sample that actually germinate, irrespective of time is called as _____

- A:-Germination capacity
- B:-Germination energy
- C:-Mean daily germination
- D:-None of these

Correct Answer:- Option-A

Question53:-The time that elapses between successive main fellings on the same area _____

- A:-Felling intensity
- B:-Felling rule
- C:-Felling cycle
- D:-Thinning cycle

Correct Answer:- Option-C

Question54:- _____ is defined as 'a tree whose stem has been cut off in order to obtain a flush of shoots, usually above the height to which the browsing animals can reach?'

- A:-Pollard
- B:-Pruning
- C:-Salvage
- D:-Sanitation

Correct Answer:- Option-A

Question55:-A fast-growing species is one which has a height increment of ___ cm per annum in the earlier stages of its life and which gives a minimum yield of _____ `m^(3)` per hectare per annum in a short rotation of 10 to 15 years.

- A:-10, 60
- B:-60, 10
- C:-50, 10
- D:-100, 10

Correct Answer:- Option-B

Question56:-The chemical used for root pruning

- A:-Copper naphthalene
- B:-Cupric carbonate
- C:-Silver nitrate
- D:-All of these

Correct Answer:- Option-D

Question57:-The method of free thinning has been devised by _____

- A:-Luna
- B:-Heck
- C:-Morgon
- D:-Brandis

Correct Answer:- Option-B

Question58:-The Shamba System is a highly developed form of taungya system practiced on state forest land in _____

- A:-India
- B:-Kenya
- C:-Nepal
- D:-Japan

Correct Answer:- Option-B

Question59:-In alley cropping trees are planted on

- A:-Alley
- B:-Hedge row
- C:-Plains
- D:-None of these

Correct Answer:- Option-B

Question60:-Scientific name of blue gum is _____

- A:-Acacia catechu
- B:-Eucalyptus globulus
- C:-E. tereticornis
- D:-None of these

Correct Answer:- Option-B

Question61:-Scientific name of Golden wattle is _____

- A:-Acacia deccurens
- B:-Acacia pycnantha
- C:-Eucalyptus viminalis
- D:-Acacia catechu

Correct Answer:- Option-B

Question62:-_____ is a plant that has been cultured to survive and grow on a specific out-planting site

- A:-Target seedling
- B:-Uniform seedling
- C:-Adapted seedling
- D:-None of these

Correct Answer:- Option-A

Question63:-The effect of one plant upon the through the production of chemical inhibitors is called as

- A:-Allelopathy
- B:-Competition
- C:-Commensalism
- D:-None of these

Correct Answer:- Option-A

Question64:-Planting protein rich trees on or around the farmlands for the cut and carry fodder production is called as _____

- A:-Topping
- B:-Live fences
- C:-Block planting
- D:-Protein bank

Correct Answer:- Option-D

Question65:-Stand Density Index was first proposed by _____

- A:-Brandis
- B:-Reineke
- C:-Heck
- D:-None of these

Correct Answer:- Option-B

Question66:-Maximum thinning has been developed by _____

- A:-Beason
- B:-Brandis
- C:-Heck
- D:-Gehrhardt

Correct Answer:- Option-D

Question67:-_____ is known as konkan bamboo

- A:-Dendrocalamus strictus
- B:-D.stocksii
- C:-Bambusa bambos

D:-None of these

Correct Answer:- Option-B

Question68:-In the equation tree crop interaction ($I=F-C$) if $F>C$ the interaction is _____

A:-Positive

B:-Negative

C:-Neutral

D:-None of these

Correct Answer:- Option-A

Question69:-The ratio of height and width in the shelterbelt should be _____

A:-1:10

B:-3:10

C:-1:30

D:-None of these

Correct Answer:- Option-A

Question70:-Hedge row intercropping is the name for

A:-Silvopastoral system

B:-Trees on farm boundaries

C:-Alley cropping

D:-None of these

Correct Answer:- Option-C

Question71:-Dugongs are aquatic herbivorous mammals, name the order to which they belong

A:-Cetaceae

B:-Sirenia

C:-Lagomorpha

D:-Pholidota

Correct Answer:- Option-B

Question72:-The Conservation Reserve is declared using the provisions under the _____ section of the Wildlife (Protection) Act, 1972

A:-36 a

B:-36 b

C:-36 c

D:-36 d

Correct Answer:- Option-A

Question73:-Write the formula to estimate the wild animal population using the line transect method

A:- $D = nf(\theta)/4L$

B:- $D = nf(\theta)/3L$

C:- $D = nf(\theta)/2L$

D:- $D = nf(\theta)/1.5L$

Correct Answer:- Option-C

Question74:-Sabarimala temple is situated with the _____ wildlife sanctuary in Kerala

A:-Chinnar

B:-Idukki

C:-Periyar

D:-Eravikulam

Correct Answer:- Option-C

Question75:-_____ is the zoogeographic region that is unique to Eucalyptus trees and Koala

A:-Oriental

B:-Australian

C:-Ethiopian

D:-Palearctic

Correct Answer:- Option-B

Question76:-Kanha tiger reserve is situated in _____ State

A:-Madhya Pradesh

B:-Uttar Pradesh

C:-Assam

D:-Rajasthan

Correct Answer:- Option-A

Question77:-_____ is the only caprine seen in Western Ghats

A:-Nilgiri Marten

- B:-Nilgiri Langur
- C:-Nilgiri Palm Squirrel
- D:-Nilgiri Tahr

Correct Answer:- Option-D

Question78:-_____ tiger reserve in India holds the largest mangrove forests

- A:-Periyar
- B:-Sundarbans
- C:-Kalakkad-Mundanthurai
- D:-Sariska

Correct Answer:- Option-B

Question79:-Blue whales are the largest living mammals in the world. Name the order to which they belong to,

- A:-Macroscelidae
- B:-Scandentiac
- C:-Dermoptera
- D:-Cetaceae

Correct Answer:- Option-D

Question80:-_____ is the first biosphere reserve in India

- A:-Agathyamalai
- B:-Gulf of Mannar
- C:-Nanda Devi
- D:-Nilgiri

Correct Answer:- Option-D

Question81:-Cattle reared in high altitude has

- A:-Decrease in PCV
- B:-Increase in RBC count and Hb
- C:-Higher haemoglobin affinity of Oxygen
- D:-None of the above

Correct Answer:- Option-B

Question82:-Animals which allow their internal environment to be controlled by external factors are known as

- A:-Conformers
- B:-Heterotherms
- C:-Endotherms
- D:-Regulators

Correct Answer:- Option-A

Question83:-The only 'Ab' which can cross placenta is

- A:-IgM
- B:-IgD
- C:-IgA
- D:-IgG

Correct Answer:- Option-D

Question84:-DNA fragments are joined together by the enzyme _____

- A:-Primase
- B:-Ligase
- C:-Polymerase
- D:-Endonuclease

Correct Answer:- Option-B

Question85:-The vitamin which is present in coenzyme A is

- A:-Pyridoxine
- B:-Riboflavin
- C:-Thiamine
- D:-Pantothenic acid

Correct Answer:- Option-D

Question86:-_____ refers to transfer of DNA from gel to nitrocellulose or nylon membrane

- A:-Northern blotting
- B:-Southern blotting
- C:-Western blotting
- D:-None of the above

Correct Answer:- Option-B

Question87:-The National Institute of High security animal diseases is located in _____

- A:-Pune
- B:-Bhopal
- C:-Delhi
- D:-Izatnagar

Correct Answer:- Option-B

Question88:-Which form of Anthrax is considered the most common type of occupational health hazard

- A:-Intestinal form
- B:-Inhalation form
- C:-Cutaneous
- D:-All of the above

Correct Answer:- Option-C

Question89:- ____ is commonly seen in people visiting caves.

- A:-Coccidioidomycosis
- B:-Histoplasmosis
- C:-Chlamydiosis
- D:-Trypanosomiasis

Correct Answer:- Option-B

Question90:-Which of the following Rickettsial disease is mite borne?

- A:-Rocky Mountain Spotted fever
- B:-Endemic Typhus
- C:-Epidemic Typhus
- D:-Rickettsial pox

Correct Answer:- Option-D

Question91:-Termination of all transmission of infection by extermination of the infectious agent through surveillance and containment

- A:-Disease Control
- B:-Disease Eradication
- C:-Disease Prevention
- D:-Disease elimination

Correct Answer:- Option-B

Question92:-Goose stepping gait in swine is due to the deficiency of

- A:-Pantothenic acid
- B:-Vitamin C
- C:-Vitamin B1
- D:-Nicotinic acid

Correct Answer:- Option-A

Question93:-World Environment day is observed on

- A:-September 22
- B:-June 5
- C:-July 6
- D:-October 16

Correct Answer:- Option-B

Question94:-Cafeteria germ is

- A:-Clostridium botulinum
- B:-Campylobacter spp
- C:-Clostridium perfringens
- D:-Bacillus cereus

Correct Answer:- Option-C

Question95:-The immunoglobulin class which can cross the placenta is ____

- A:-IgG
- B:-IgM
- C:-IgE
- D:-IgA

Correct Answer:- Option-A

Question96:-An insecticide that is most resistant to environmental degradation is

- A:-DDT
- B:-Cypermethrin
- C:-Propoxur
- D:-Malathion

Correct Answer:- Option-A

Question97:-Meat unfit for Jewish consumption is known as _____

A:-Schechita

B:-Kosher

C:-Shomer

D:-Terefa

Correct Answer:- Option-D

Question98:-A system of approach to assure that the food safety by production processing monitoring is

A:-PCA

B:-PFA` `

C:-BIS

D:-HACCP

Correct Answer:- Option-D

Question99:-Kangaroo sitting posture in pigs is due to deficiency of

A:-Pantothenic acid

B:-Niacin

C:-Biotin

D:-Riboflavin

Correct Answer:- Option-C

Question100:-Delhi boil is a synonym of which disease

A:-Visceral Leishmaniosis

B:-Cutaneous Leishmaniosis

C:-Schistosomiosis

D:-Diphyllobothriosis

Correct Answer:- Option-B