

PROVISIONAL ANSWER KEY

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Department	Ayurveda Medical Education
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Question1:-The famous hill-station 'Kodaikanal' lies in

- A:-Nilgiri hills
- B:-Palani hills
- C:-Javadi hills
- D:-Cardamom hills

Correct Answer:- Option-B

Question2:-The year which Indian Postal department published stamp of Chattampi Swamikal

- A:-30 April 2014
- B:-30 May 2014
- C:-30 March 2014
- D:-30 June 2014

Correct Answer:- Option-A

Question3:-Advaitha Ashramam at Aluva was established in the year

- A:-1911
- B:-1912
- C:-1914
- D:-1913

Correct Answer:- Option-D

Question4:-Who is the first Indian cricketer to hit 300 sixes in T20 matches across all tournaments?

- A:-Rohit Sharma
- B:-Virat Kohli
- C:-MS Dhoni
- D:-Suresh Raina

Correct Answer:- Option-A

Question5:-The 14 major Indian banks were nationalised during which five-year plan?

- A:-first
- B:-fourth
- C:-second
- D:-third

Correct Answer:- Option-B

Question6:-Asia's largest arch dam 'Idukki' is located in which district of Kerala?

- A:-Kollam
- B:-Kottayam
- C:-Idukki
- D:-Muvattupuzha

Correct Answer:- Option-C

Question7:-Which river is also known as Thalayar?

- A:-Pambar
- B:-Kallar
- C:-Varattar
- D:-Vakayar

Correct Answer:- Option-A

Question8:-Who was appointed as the Sub Collector of Thalassery to suppress the revolt of Pazhassi Raja?

- A:-Munro
- B:-Robert Clive
- C:-Curzon
- D:-T.H Baber

Correct Answer:- Option-D

Question9:-Which district of Kerala shares its border both with Karnataka and Tamilnadu?

A:-Wayanad

B:-Kasargod

C:-Palghat

D:-Kannur

Correct Answer:- Option-A

Question10:-Who fought against the social evils 'Ettu and Mattu'?

A:-Vagbhatananda

B:-Swami Sivayogi

C:-Poikayil Yohanan

D:-Pandit Karuppan

Correct Answer:- Option-A

Question11:-World Water day is observed in

A:-26th March

B:-22nd March

C:-25th March

D:-21st March

Correct Answer:- Option-B

Question12:-Which was the birth place of Sahodaran Ayyappan?

A:-Varkala (Trivandrum)

B:-Aluva (Ernakulam)

C:-Cherai (Ernakulam)

D:-Kovalam (Trivandrum)

Correct Answer:- Option-C

Question13:-The Nipah virus outbreak is detected in which state of India?

A:-Karnataka

B:-Kerala

C:-Goa

D:-Delhi

Correct Answer:- Option-B

Question14:-The National Digital Library of India is developed by which IIT

A:-Ghuwati

B:-Delhi

C:-Kharagpur

D:-Mumbai

Correct Answer:- Option-C

Question15:-Which among the following revolutionaries was not hanged on the charge of Kakori case?

A:-Ashfaquallah

B:-Ramprasad Bismil

C:-Bhagat Singh

D:-Manmatu Gupta

Correct Answer:- Option-C

Question16:-Who is the ex-officio Chairman of Planning Commission?

A:-The President

B:-The Speaker of Lok Sabha

C:-The Speaker of Raj Sabha

D:-The Prime Minister

Correct Answer:- Option-D

Question17:-Where was the Azad Hind Fauj constituted?

A:-India

B:-Japan

C:-Singapore

D:-Britain

Correct Answer:- Option-C

Question18:-Who raised the slogan 'If we work, we should be got paid'?

A:-Kumara Guru

B:-Ayyankali

C:-Chattampi Swamikal

D:-Vaikunda Swamikal

Correct Answer:- Option-D

Question19:-Who wins the best actress award in the 65th national films award 2018?

- A:-Parvathy
- B:-Kalpana
- C:-Surabhi
- D:-Sridevi

Correct Answer:- Option-D

Question20:-During which period 'Mahatma' Titled given before the name of Gandhi?

- A:-During Swadeshi Movement
- B:-During Champaran Satyagraha
- C:-During Implementation of Rowlatt Act in India
- D:-During Surat Session of 1907

Correct Answer:- Option-B

Question21:-What is the morphology of the mace of Myristica fragrans?

- A:-Ruminate Endosperm
- B:-Aril
- C:-Pericarp
- D:-Leaves

Correct Answer:- Option-B

Question22:-Name the type of fruit seen in Aegle marmelos.

- A:-Carcerule
- B:-Amphisarca
- C:-Balausta
- D:-Samara

Correct Answer:- Option-B

Question23:-The current version of ICN code accepted by International Botanical Congress in 2017

- A:-Shenzhen Code
- B:-Melbourne Code
- C:-Sydney Code
- D:-Berlin Code

Correct Answer:- Option-A

Question24:-Guttation in plants occur through

- A:-Laticifers
- B:-Salt glands
- C:-Hydathodes
- D:-Stomata

Correct Answer:- Option-C

Question25:-The drug Morphine is obtained from

- A:-Cinchona
- B:-Argemone
- C:-Nicotiana
- D:-Papaver

Correct Answer:- Option-D

Question26:-According to APG system of classification, which among the following is the most primitive order

- A:-Chloranthales
- B:-Alismatales
- C:-Geraniales
- D:-Rosales

Correct Answer:- Option-A

Question27:-Cremocarp fruit is characteristic to

- A:-Aizoaceae
- B:-Capparidaceae
- C:-Apiaceae
- D:-Rubiaceae

Correct Answer:- Option-C

Question28:-Tetradynamous stamen can be seen in

- A:-Brassica
- B:-Scoparia
- C:-Torrenia
- D:-Tridax

Correct Answer:- Option-A

Question29:-Setaria italica is an example of

- A:-Spice
- B:-Cereal
- C:-Condiment
- D:-Millet

Correct Answer:- Option-D

Question30:-An example of Sorosis

- A:-Pineapple
- B:-Custard apple
- C:-Fig
- D:-Strawberry

Correct Answer:- Option-A

Question31:-Morphology of the useful part of sugarbeet when used as sugar yielding plant

- A:-Stem
- B:-Leaf
- C:-Root
- D:-Ripe Fruit

Correct Answer:- Option-C

Question32:-Cyathium inflorescence is seen in

- A:-Euphorbia
- B:-Cyathula
- C:-Hevea
- D:-Phyllanthus

Correct Answer:- Option-A

Question33:-According to Bentham and Hooker, the series with gamopetalous corolla and inferior ovary is

- A:-Calciflorae
- B:-Inferae
- C:-Thalamiflorae
- D:-Heteromerae

Correct Answer:- Option-B

Question34:-The parenchymatous region between leaf trace and main vascular cylinder is known as

- A:-Leaf Gap
- B:-Leaf Stele
- C:-Stem Pith
- D:-Leaf Pith

Correct Answer:- Option-A

Question35:-Calcium carbonate cell inclusion found in plants

- A:-Cystolith
- B:-Idioblast
- C:-Raphides
- D:-Inulin

Correct Answer:- Option-A

Question36:-The active ingredient of Jeevani Drug developed by JNTBGRI is

- A:-Trichosanthes
- B:-Trichopus
- C:-Boerhavia
- D:-Borassus

Correct Answer:- Option-B

Question37:-The branch of science dealing with medicinal drugs obtained from plants

- A:-Pharmacology
- B:-Pharmacognosy
- C:-Phyto pathology
- D:-Pathology

Correct Answer:- Option-B

Question38:-Reserpine is obtained from

- A:-Rauvolfia serpentina
- B:-Ixora coccinea
- C:-Acorus calamus

D:-*Vinca rosea*

Correct Answer:- Option-A

Question39:-Anomalous secondary growth with wedges of secondary phloem is seen in

A:-*Aristolochia*

B:-*Bougainvillea*

C:-*Bignonia*

D:-*Piper*

Correct Answer:- Option-C

Question40:-Botanical name of Oats

A:-*Triticum durum*

B:-*Hordeum vulgare*

C:-*Triticum aestivum*

D:-*Avena sativa*

Correct Answer:- Option-D

Question41:-Vitamin B is produced during fermentation by

A:-*Acetobacter aceti*

B:-*Clostridium acetobutylicum*

C:-*Streptomyces fradiae*

D:-*Corynebacterium glutamicum*

Correct Answer:- Option-B

Question42:-Viroids are

A:-Infectious nucleic acids

B:-Infectious proteins

C:-Infectious nucleoproteins

D:-Infectious lipoproteins

Correct Answer:- Option-A

Question43:-The Rickettsias possess

A:-No cell wall

B:-Mucopolysaccharide cell wall

C:-Hemicellulose cell wall

D:-Polypeptide cell wall

Correct Answer:- Option-B

Question44:-The alga showing dimorphic branching

A:-*Cladophora*

B:-*Scytonema*

C:-*Stigonema*

D:-*Batrachospermum*

Correct Answer:- Option-D

Question45:-Thin walled non motile spores which resembles the parent algal cell

A:-Aplanospore

B:-Hypnospore

C:-Autospore

D:-Endospore

Correct Answer:- Option-C

Question46:-Carageenin, is obtained from

A:-*Laminaria*

B:-*Sargassum*

C:-*Gracilaria*

D:-*Chondrus*

Correct Answer:- Option-D

Question47:-*Lecanora* is an example of

A:-Crustose lichen

B:-Fruticose lichen

C:-Foliose lichen

D:-None of the above

Correct Answer:- Option-A

Question48:-Which lichen has been eaten by travellers in arctic region in danger of starvation?

A:-*Peltigera*

B:-*Lecidia*

C:-Umbilicaria

D:-Cladonia

Correct Answer:- Option-C

Question49:-Early blight of Potato is caused by

A:-Alternaria solani

B:-Phytophthora infestans

C:-Xanthomonas oryzae

D:-Fusarium solani

Correct Answer:- Option-A

Question50:-Which mechanism is characterised by the rapid death of cells in the local region surrounding an infection?

A:-Parallelism

B:-Hypersensitivity

C:-Hypertrophy

D:-Hyperplasia

Correct Answer:- Option-B

Question51:-Phytoalexins are secreted by plants in response to fungal reaction. These compounds are generally

A:-Phenolic compounds

B:-Glycoproteins

C:-Lipids

D:-Proteins

Correct Answer:- Option-A

Question52:-Exclusion of plant disease by legislation is known as

A:-Disease resistance

B:-Plant quarantine

C:-Biological control of plant

D:-Cultural control

Correct Answer:- Option-B

Question53:-The author of the book entitled "The first land plant" is

A:-S.R. Kashyap

B:-P.N. Mehra

C:-F.O. Bower

D:-R.N. Chopra

Correct Answer:- Option-C

Question54:-Which among the following is a fossil bryophyte?

A:-Tortula

B:-Haplomitrium

C:-Sphaerocarpos

D:-Hepaticites

Correct Answer:- Option-D

Question55:-Antiseptic properties are shown by the moss

A:-Funaria

B:-Pogonatum

C:-Polytrichum

D:-Sphagnum

Correct Answer:- Option-D

Question56:-The fern Acrostichum is a

A:-Halophyte

B:-Helophyte

C:-Epiphyte

D:-Psychrophyte

Correct Answer:- Option-A

Question57:-A corm like rhizomorph occurs in

A:-Lycopodium

B:-Psilotum

C:-Isoetes

D:-Rhynia

Correct Answer:- Option-C

Question58:-The stele comprises

A:-Xylem, phloem and pith

- B:-Xylem and phloem only
 - C:-Xylem, phloem, endodermis and pericycle
 - D:-All of the above
- Correct Answer:- Option-D

Question59:-The nodes in Gnetum and Gingo are

- A:-Tri and Unilacunar
- B:-Trilacunar
- C:-Bilacunar
- D:-Unilacunar

Correct Answer:- Option-D

Question60:-The resin "amber" is obtained from

- A:-Callitris
- B:-Pinites
- C:-Araucaria
- D:-Podocarpus

Correct Answer:- Option-B

Question61:-The only enzyme in TCA cycle which is attached to the inner mitochondrial membrane?

- A:-Malate dehydrogenase
- B:-NADPH dehydrogenase
- C:-Pyruvate dehydrogenase
- D:-Succinate dehydrogenase

Correct Answer:- Option-D

Question62:-CDK associated with Cyclin B is _____.

- A:-CDK 1
- B:-CDK 2
- C:-CDK 4
- D:-CDK 6

Correct Answer:- Option-A

Question63:-Klenow fragment lack

- A:-3' → 5' exonuclease activity
- B:-5' → 3' exonuclease activity
- C:-Polymerisation activity
- D:-Proof reading activity

Correct Answer:- Option-B

Question64:-Which of the following is considered as an analogue of Allolactose?

- A:-Lactulose
- B:-IPTG
- C:-Chitobiose
- D:-Trehalose

Correct Answer:- Option-B

Question65:-Mendel did not observed linkage due to

- A:-Mutation
- B:-Independent assortment
- C:-Crossing over
- D:-Synapsis

Correct Answer:- Option-B

Question66:-Which one of the following is a part of synaptonemal complex?

- A:-SYCP1
- B:-SCYP2
- C:-SCYP3
- D:-SYCP4

Correct Answer:- Option-A

Question67:-Process of chromosomal movement towards the midway between poles in a prometaphase cells is

- A:-Disjunction
- B:-Congresson
- C:-Cytokinesis
- D:-Spindle assembly

Correct Answer:- Option-B

Question68:-Structure in the synaptonemal complex, along which the lateral elements of homologous chromosomes align is called

- A:-Central element
- B:-Recombination nodule
- C:-Synapse
- D:-Chiasmata

Correct Answer:- Option-A

Question69:-The DNA base composition in most organisms will not be

- A:- $A + G = T + C$
- B:- $A + C = A + G$
- C:- $A + T = G + C$
- D:-None of the above

Correct Answer:- Option-C

Question70:-Minisatellite DNAs are

- A:-Highly repeated
- B:-Moderately repeated
- C:-Non repeated
- D:-None of the above

Correct Answer:- Option-A

Question71:-Which of the following variety of cotton developed through pureline selection?

- A:-Gadag 1
- B:-100F
- C:-K12
- D:-Janpuri

Correct Answer:- Option-A

Question72:-Colour of tag used for certified seed in India

- A:-Red
- B:-White
- C:-Azure Blue
- D:-Golden brown

Correct Answer:- Option-C

Question73:-Which one is not a feature of vertical resistance?

- A:-Polygenic
- B:-Qualitative Phenotypic Expression
- C:-Oligogenic
- D:-Race specific

Correct Answer:- Option-A

Question74:-Female receptivity of a flower in Hybridization measured by

- A:-Pollen grain germination on the stigma
- B:-Production of stigma chemicals to attract pollen grains
- C:-Rate of fertilization
- D:-Length of pollentube

Correct Answer:- Option-A

Question75:-Choose the correct statement regarding Emasculation

- A:-Removal of stigma from a flower without male reproductive organs
- B:-Removal of stamens from a flower without female reproduction organ
- C:-Bagging of a bisexual flower without female reproductive organ
- D:-Removal of non-essential whorls of a flower for hybridization

Correct Answer:- Option-B

Question76:-Which of the following inherited metabolic disease causes accumulation of homogenetic acid in the blood and tissues?

- A:-Phenylketonuria
- B:-Porphyria
- C:-Alkaptonuria
- D:-Hunter syndrome

Correct Answer:- Option-C

Question77:-The procedure for chromosome mapping was first invented by _____.

- A:-Alfred H. Sturtevant
- B:-T.H. Morgan

C:-Barbara McClintock

D:-Hermann Muller

Correct Answer:- Option-A

Question78:-DNA polymerase I was first discovered by _____.

A:-Kary Mullis

B:-Stanley Cohen

C:-Jacob and Mannod

D:-Arthur Kornberg

Correct Answer:- Option-D

Question79:-Complementary gene interaction can be seen in the case of _____.

A:-Flower color of Lathyrus odoratus

B:-Coat color in rabbit

C:-Fruit shape in summer squashes

D:-Blood group in man

Correct Answer:- Option-A

Question80:-A family of proteins involved in targeted RNA cleavage in RISC

A:-GAP dehydrogenase

B:-Argonaute

C:-Actin

D:-RNA polymera

Correct Answer:- Option-B

Question81:-Which of the following ecosystem has highest productivity?

A:-Grassland

B:-Estuary

C:-Desert

D:-Tundra

Correct Answer:- Option-B

Question82:-Catmab is a kind of

A:-isozyme

B:-coenzyme

C:-apoenzyme

D:-abzyme

Correct Answer:- Option-D

Question83:-Identify the incorrect statement about nitrogenase enzyme

A:-It is an Mo-Fe protein

B:-Catalyses the conversion of N_2 to NH_3

C:-Insensitive to O_2

D:-nif gene help in its formation

Correct Answer:- Option-C

Question84:-Separation and blotting of proteins is done in

A:-Western blot

B:-Southern blot

C:-Northern blot

D:-None of the above

Correct Answer:- Option-A

Question85:-Which of the following is not a software used in bioinformatics?

A:-EMBOSS

B:-AMPHORA

C:-PROSITE

D:-Orange

Correct Answer:- Option-C

Question86:-HGPRT is associated with which of the following?

A:-Purine

B:-Pyridine

C:-Pyrimidine

D:-Pyridoxine

Correct Answer:- Option-A

Question87:-Cycling of which element does not include a gas phase?

A:-Carbon

- B:-Nitrogen
- C:-Sulphur
- D:-Phosphorus

Correct Answer:- Option-D

Question88:-The technique of micro propagation to produce virus free plants

- A:-Meristem culture
- B:-Protoplast culture
- C:-Anther culture
- D:-Embryo culture

Correct Answer:- Option-A

Question89:- α helix represents _____ structure of proteins

- A:-Primary
- B:-Secondary
- C:-Tertiary
- D:-Quaternary

Correct Answer:- Option-B

Question90:-Clustal Omega programme is used in

- A:-local alignment
- B:-multiple sequence alignment
- C:-global alignment
- D:-none of the above

Correct Answer:- Option-B

Question91:-Ion responsible for opening and closing of stomata

- A:- Na^+
- B:- Zn^{2+}
- C:- Mg^{2+}
- D:- K^+

Correct Answer:- Option-D

Question92:-First eukaryotic genome sequenced was that of

- A:-Haemophilus influenzae
- B:-Saccharomyces cerevisiae
- C:-Caenorhabditis elegans
- D:-Neurospora crassa

Correct Answer:- Option-B

Question93:-Attine ant and fungus is an example of which of the following interactions?

- A:-Mutualism
- B:-Neutralism
- C:-Amensalism
- D:-Parasitism

Correct Answer:- Option-A

Question94:-During Photorespiration Glycine is converted to Serine in

- A:-peroxisome
- B:-chloroplast
- C:-mitochondria
- D:-glyoxisome

Correct Answer:- Option-C

Question95:-Which is a data retrieval system of NCBI?

- A:-SRS
- B:-DBGET
- C:-SAKURA
- D:-Entrez

Correct Answer:- Option-D

Question96:-What according to " C_4 " plants is true?

- A:-RuBP carboxylase is absent
- B:-RuBP carboxylase is present in mesophyll only
- C:-RuBP carboxylase is present in bundle sheath only
- D:-RuBP carboxylase is present in both mesophyll and bundle sheath

Correct Answer:- Option-C

Question97:-Which among the following is not true about Cosmid vector?

A:-Does not contain genes for antibiotic resistance

B:-Used to build genomic libraries

C:-Contains DNA sequence from λ phage

D:-It is a hybrid cloning vector

Correct Answer:- Option-A

Question98:-Identify the secondary metabolic compound from the following

A:-amino acid

B:-pigment

C:-protein

D:-cellulose

Correct Answer:- Option-B

Question99:-Find the correct statement with respect to the production of Golden Rice

A:-to increase shelf life

B:-to fight against malnutrition

C:-to provide herbicide resistance

D:-to make the plant insect resistant

Correct Answer:- Option-B

Question100:-What happens to the P/R ratio in a climax ecosystem?

A:-greater than 1

B:-less than 1

C:-approaches 1

D:-less than or greater than 1

Correct Answer:- Option-C