

PROVISIONAL ANSWER KEY

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Question1:-Who was commemorated in the book 'Vyazhavatta Smaranakal' by B. Kalyanikkutty Amma ?

- A:-Ayyankali
 - B:-Swadesabhimani Ramakrishna Pillai
 - C:-Mannathu Pathmanabhan
 - D:-K. Korunakaran
- Correct Answer:- Option-B

Question2:-The Travancore ruler who arrested Vaikunta Swamikal and sent to Singarathoppu Prison ?

- A:-Ayilyam Thirunal
 - B:-Sri Moolam Thirunal
 - C:-Chithira Thirunal
 - D:-Swathi Thirunal
- Correct Answer:- Option-D

Question3:-Who was the first Malayalee nominated to Rajyasabha and later become the ambassador of China ?

- A:-Sardar K. M. Panikker
 - B:-Panambally Govinda Menon
 - C:-Barister G. P. Pillai
 - D:-Pattom Thanu Pillai
- Correct Answer:- Option-A

Question4:-The English school at Travancore was started in the year

- A:-1830
 - B:-1834
 - C:-1835
 - D:-1840
- Correct Answer:- Option-B

Question5:-Who was the author of 'Matha Sidhantha Samgraham' ?

- A:-Sahodaran Ayyappan
 - B:-Brahmananda Sivayogi
 - C:-Swami Agamananda
 - D:-Vakkom Abdul Khader Moulavi
- Correct Answer:- Option-D

Question6:-On `14^(th)` April 2016 U. N. observed the birth anniversary of which social reformist ?

- A:-Raja Ram Mohan Roy
 - B:-Swami Vivekananda
 - C:-Dr. B. R. Ambedkar
 - D:-Mahatma Jyothi Rao Phule
- Correct Answer:- Option-C

Question7:-India's first Mars Orbit Mission Space Craft Mangalyan was launched on

- A:-November 5, 2013
 - B:-August 15, 2013
 - C:-August 15, 2014
 - D:-November 5, 2014
- Correct Answer:- Option-A

Question8:-Which article of Indian Constitution deals with Right to Education ?

- A:-Article 21(A)
 - B:-Article 22(A)
 - C:-Article 21(B)
 - D:-Article 22(B)
- Correct Answer:- Option-A

Question9:-When was 'Make in India', an international marketing strategy started by Prime Minister at Delhi ?

- A:-August 2014
- B:-September 2014
- C:-August 2015
- D:-September 2015

Correct Answer:- Option-B

Question10:-The theme of World Cancer Day 2016 was

- A:-Not beyond us
- B:-We can I can
- C:-Better measures better health
- D:-On fight against cancer

Correct Answer:- Option-B

Question11:-Scientific method of education implies

- A:-Inductive thinking
- B:-Deductive thinking
- C:-Both inductive and deductive thinking
- D:-Intuitive thinking

Correct Answer:- Option-C

Question12:-When a research problem is related to heterogenic population, the most suitable is

- A:-Cluster sampling
- B:-Stratified sampling
- C:-Convenient sampling
- D:-Purposive sampling

Correct Answer:- Option-B

Question13:-In research, parametric data tend to be derived from

- A:-Opinionnaires
- B:-Experiments and tests
- C:-Interviews
- D:-All of the above

Correct Answer:- Option-B

Question14:-In hypothesis testing Type 1 error occurs when one

- A:-Does not support the null hypothesis when it is in fact true
- B:-Supports the null hypothesis when it is in fact not true
- C:-Supports the null hypothesis when it is in fact true
- D:-Both 2 and 3

Correct Answer:- Option-A

Question15:-Factor analysis is

- A:-A test of difference
- B:-A test of variance
- C:-Method of grouping together variables
- D:-A test of correlation

Correct Answer:- Option-C

Question16:-"Education should always aim at creation of new values from active experiences". Which philosophy propagates this idea ?

- A:-Idealism
- B:-Naturalism
- C:-Realism
- D:-Pragmatism

Correct Answer:- Option-D

Question17:-Reflective practice in teaching implies

- A:-Portfolio management
- B:-Journal writing
- C:-Peer evaluation
- D:-All of the above

Correct Answer:- Option-D

Question18:-The test made to compare the performance of student with other students is called

- A:-Criterion reference
- B:-Norm reference
- C:-Achievement
- D:-Diagnostic

Correct Answer:- Option-B

Question19:-The essential characteristic of cooperative learning is

- A:-Effective learning
- B:-Positive interdependence
- C:-Cooperation
- D:-Division of labour

Correct Answer:- Option-B

Question20:-Which of the following is assessed by Chronbachs alpha ?

- A:-Concurrent validity
- B:-Construct validity
- C:-Content validity
- D:-Internal consistency

Correct Answer:- Option-D

Question21:-Identify non-justiciable right under the Constitution of India ?

- A:-Right to freedom of speech and expression
- B:-Freedom of conscience and free profession, practice and propagation of religion
- C:-Right to property
- D:-Right of minorities to establish and administer educational institutions

Correct Answer:- Option-C

Question22:-Which of the following is not a 'basic structure' of the Constitution of India ?

- A:-Secular
- B:-Federal
- C:-Parliamentary
- D:-Monarchical

Correct Answer:- Option-D

Question23:-Invoking which of the following article, Financial Emergency can be declared in India ?

- A:-352
- B:-345
- C:-360
- D:-356

Correct Answer:- Option-C

Question24:-The residuary powers under the Indian Constitution are assigned to ____ ?

- A:-State Government
- B:-Union Government
- C:-Election Commission
- D:-NITI Ayog

Correct Answer:- Option-B

Question25:-Which among the following is not a Constitution Amendment Bill ?

- A:-Election of the President
- B:-Supreme Court and the High Courts
- C:-Distribution of legislative powers between the Union and States
- D:-Salaries and allowances of the members of Parliament

Correct Answer:- Option-D

Question26:-Prime Minister Narendra Modi launched the 'Swatchh Bharat Mission' or 'Clean India Campaign' from the Valmiki Basti in New Delhi on _____ ?

- A:-2 October, 2014
- B:-5 October 2014
- C:-30 January 2014
- D:-5 June 2014

Correct Answer:- Option-A

Question27:-Which Prime Minister of India gave the slogan Jai Jawan Jai Kisan ?

- A:-Narendra Modi
- B:-Indira Gandhi
- C:-Lal Bahadur Shastri
- D:-V. P. Singh

Correct Answer:- Option-C

Question28:-Which year National Green Tribunal has been established ?

- A:-2010
- B:-1978

C:-1991

D:-1998

Correct Answer:- Option-A

Question29:-The Committee on the status of women in India recommended the setting up of _____ ?

A:-National Commission for Women

B:-National Commission for Backward Classes

C:-Human Rights Commission

D:-Scheduled Tribes Commission

Correct Answer:- Option-A

Question30:-To ameliorate the conditions of the urban slum dwellers living below the poverty line without adequate shelter, the government launched which of the following programme in 2001 ?

A:-Rajiv Awas Yojana

B:-Valmiki Ambedkar Awas Yojana

C:-Housing for All by 2022

D:-Indira Awas Yojana

Correct Answer:- Option-B

Question31:-Who among the following evolutionary biologist got Indian citizenship ?

A:-Charles Darwin

B:-J. B. S. Haldane

C:-Fransisco Redi

D:-Spallanzani

Correct Answer:- Option-B

Question32:-Bread moulds are classified under which division ?

A:-Basidiomycotina

B:-Zygomycotina

C:-Chtridiomycotina

D:-Ascomycotina

Correct Answer:- Option-B

Question33:-Which is also known as ballistospores ?

A:-Ascospores

B:-Oospores

C:-Basidiospores

D:-Zygosporos

Correct Answer:- Option-C

Question34:-Which is the first 3-carbon compound formed in C3-cycle ?

A:-3-phospho glyceric acid

B:-3-phosphoglyceraldehyde

C:-Phosphoenol pyruvic acid

D:-Malic acid

Correct Answer:- Option-A

Question35:-Algae used by Melvin Calvin and co-workers to study photosynthesis is

A:-Polysiphonia

B:-Spirogyra

C:-Chlorella

D:-Gelidium

Correct Answer:- Option-C

Question36:-Pink disease of rubber is caused by

A:-Xanthomonas citri

B:-Pythium aphanidermatum

C:-Phytoplasma

D:-Corticium salmonicolor

Correct Answer:- Option-D

Question37:-How many centers of origin were proposed by Nikolai Vavilov ?

A:-11

B:-13

C:-14

D:-12

Correct Answer:- Option-D

Question38:-Who among the following is a famous Indian Bryologist ?

A:-K. Thothathri

B:-P. Maheswari

C:-M. Sanjappa

D:-D. K. Singh

Correct Answer:- Option-D

Question39:-What is the meaning of the term protandrous ?

A:-Ovule absent

B:-Gynoecium matures first

C:-Androecium matures first

D:-Androecium absent

Correct Answer:- Option-C

Question40:-In Pteridophytes, gametes are produced in

A:-Prothallus

B:-Fronds

C:-Upper surface of leaves

D:-Sporophyte

Correct Answer:- Option-A

Question41:-Most primitive water conducting structures known as hydroids are found in

A:-Psilotum

B:-Sphagnum

C:-Lycopodium

D:-Water lilies

Correct Answer:- Option-B

Question42:-Which among the following algae gives iodine ?

A:-Ectocarpus

B:-Oedogonium

C:-Nostoc

D:-Laminaria

Correct Answer:- Option-D

Question43:-Where we can see zygotic meiosis ?

A:-Bryophytes

B:-Pteridophytes

C:-Algae

D:-Fungi

Correct Answer:- Option-C

Question44:-Which is the most common amino acid seen in the beta bend ?

A:-Glycine

B:-Alanine

C:-Threonine

D:-Asparagine

Correct Answer:- Option-A

Question45:-Lipids are the most important constituents in

A:-Nucleus

B:-Ribosomes

C:-Lysosomes

D:-Biological membranes

Correct Answer:- Option-D

Question46:-Cardiolipin is characteristic to

A:-Mitochondria

B:-Endoplasmic reticulum

C:-Golgi bodies

D:-Nucleus

Correct Answer:- Option-A

Question47:-The atmosphere of primitive earth is

A:-`CO₂` rich

B:-`O₂` rich

C:-both 1 and 2

D:-`CO₂` rich and `O₂` free

Correct Answer:- Option-D

Question48:-Which among the following is a common isoform of glucose transporter ?

- A:-GLUT1
- B:-GLUT3
- C:-GLUT4
- D:-GLUT2

Correct Answer:- Option-C

Question49:-Which is the 21st amino acid recognized ?

- A:-Proline
- B:-Selenocysteine
- C:-Hydroxy proline
- D:-Citrulline

Correct Answer:- Option-B

Question50:-The lowest level of chromosome organization is

- A:-Nucleosomes
- B:-Histones
- C:-Lampbrush chromosomes
- D:-Solenoid model

Correct Answer:- Option-A

Question51:-How many subfamilies are there under Leguminosae as per the latest Legume classification ?

- A:-5
- B:-6
- C:-3
- D:-7

Correct Answer:- Option-B

Question52:-Petals are absent in

- A:-Caesalpinia pulcherrima
- B:-Neolamarckia cadamba
- C:-Saraca asoca
- D:-Spathoglottis plicata

Correct Answer:- Option-C

Question53:-Which is acting as extracellular messenger and intracellular communicator ?

- A:-cAMP
- B:-NO
- C:-H₂S
- D:-cGMP

Correct Answer:- Option-C

Question54:-Who proposed Chemi-osmotic theory of ATP formation ?

- A:-P. Mitchel
- B:-M. Calvin
- C:-Andrew Benson
- D:-L. Pauling

Correct Answer:- Option-A

Question55:-Inheritance that is not encoded in DNA is known as

- A:-Epigenetic
- B:-Phylogenetic
- C:-Paraphyletic
- D:-Polyphyletic

Correct Answer:- Option-A

Question56:-Which statistical tool is used to test if the standard deviations of two populations are equal ?

- A:-T-Test
- B:-ANOVA
- C:-F-Test
- D:-Chi-square

Correct Answer:- Option-C

Question57:-Anomalous secondary thickening is shown by

- A:-Chromolaena
- B:-Dracaena
- C:-Centella
- D:-Cocos

Correct Answer:- Option-B

Question58:-What is the binomial of chick pea ?

- A:-Labiab purpureus
- B:-Cicer areitinum
- C:-Phaseolus aureus
- D:-Vigna minima

Correct Answer:- Option-B

Question59:-G2/M check point in mammalian cell cycle is mainly regulated by

- A:-Cyclin B/A + Cdk1
- B:-Cyclin A + Cdk2
- C:-Cyclin E + Cdk 2
- D:-Cyclin D's + Cdk 4 and Cdk 6

Correct Answer:- Option-A

Question60:-Which enzyme deficiency is responsible for Neimann-Pick disease ?

- A:-Ceramidase
- B:-Spingomyelinase
- C:-Galactocerebrosidase
- D:-Hexosaminidase A

Correct Answer:- Option-B

Question61:-The typical ΔG value during ATP hydrolysis in the cell is

- A:--12 kcal/mol
- B:--7.3 kcal/mol
- C:--14 kcal/mol
- D:-18 kcal/mol

Correct Answer:- Option-A

Question62:-Who is the founder of Celera genomics ?

- A:-Melvin Calvin
- B:-Alec Jeffrey
- C:-Craig Venter
- D:-James Watson

Correct Answer:- Option-C

Question63:-Which among the following is a plant systematic journal published from India ?

- A:-Cell
- B:-Taxon
- C:-Candollea
- D:-Rheedea

Correct Answer:- Option-D

Question64:-How many conformational changes occurs to ribosomes, coupled with GTP hydrolysis during each cycle of chain elongation in translation ?

- A:-Zero
- B:-One
- C:-Two
- D:-Three

Correct Answer:- Option-C

Question65:-Which of the following is not semelparous ?

- A:-Annona
- B:-Bamboo
- C:-Corypha
- D:-Cicada

Correct Answer:- Option-A

Question66:-The evolution of one population in response to the evolution of another population and vice-verse is called

- A:-Convergent evolution
- B:-Co evolution
- C:-Divergent evolution
- D:-Parallel evolution

Correct Answer:- Option-B

Question67:-Intestinal gas is the product of _____

- A:-Undigested meat
- B:-Vitamin fermentation

C:-Intestinal bacteria

D:-Intestinal villi

Correct Answer:- Option-C

Question68:-Which of the following animals has no need for gall bladder ?

A:-Human

B:-Dog

C:-Lion

D:-Horse

Correct Answer:- Option-D

Question69:-Osteomalasia is a disease condition caused by the deficiency of _____

A:-Isoleucine

B:-Vitamin D

C:-Methionine

D:-Vitamin C

Correct Answer:- Option-B

Question70:-Breathing rate in mammals is controlled by a part of the brain called the _____

A:-Hypothalamus

B:-Thalamus

C:-Medulla oblongata

D:-Cerebellum

Correct Answer:- Option-C

Question71:-The moulting hormone in insects is

A:-Ecdysone

B:-Thyroxine

C:-Pheremone

D:-Juvenile hormone

Correct Answer:- Option-A

Question72:-The symptoms of an allergic reaction develop in response to

A:-Compliment proteins

B:-Interleukins

C:-Interferon

D:-Histamine

Correct Answer:- Option-D

Question73:-Name the scientist who discovered the DNA

A:-Freidrich Meischer

B:-James Watson

C:-Avery

D:-Griffith

Correct Answer:- Option-A

Question74:-The most abundant lipid in a cell membrane is

A:-Cutin

B:-Glycolipid

C:-Steroid

D:-Phospholipid

Correct Answer:- Option-D

Question75:-Which of the following is a type of intercellular junction in animal cell

A:-Desmosomes

B:-Glycocalyx

C:-Plasmodesmata

D:-Middle lamella

Correct Answer:- Option-A

Question76:-The syndrome in which an individual's somatic cells will contain the three sex chromosome XXY is called

A:-Turner

B:-Down

C:-Klinefelter

D:-Edward

Correct Answer:- Option-C

Question77:-The scientist who won "Nobel Prize" for the work in the field of entomology

A:-Ivan Pavlov

B:-Karl von Frisch

C:-Moses Kinby

D:-Konrad Lorenz

Correct Answer:- Option-B

Question78:-Menstruation is triggered by an abrupt decline in the amount of

A:-Lutenizing hormone

B:-Follicle stimulating hormone

C:-Estrogen

D:-Progesterone

Correct Answer:- Option-D

Question79:-Photochemical fog always contain

A:-Aluminium ion

B:-Ozone

C:-Methane

D:-Phosphorus

Correct Answer:- Option-B

Question80:-First national park in India is

A:-Jim Corbet National Park

B:-Satpura National Park

C:-Panna National Park

D:-Kaziranga National Park

Correct Answer:- Option-A

Question81:-What percent of ultra violet radiation increases with subsequent reduction of 1% ozone ?

A:-8%

B:-10%

C:-2%

D:-6%

Correct Answer:- Option-C

Question82:-Computational genomics and their analysis include

A:-DNA

B:-RNA

C:-Both DNA and RNA

D:-None of the above

Correct Answer:- Option-C

Question83:-Continuous variables are represented by

A:-Histogram

B:-Bar-diagram

C:-Pie-chart

D:-Line diagram

Correct Answer:- Option-A

Question84:-Which is the first secondary database to be developed ?

A:-PRINTS

B:-ROSITE

C:-P farm

D:-BLOCKS

Correct Answer:- Option-B

Question85:-A computer or software system that communicate information via internet to a client

A:-Windows

B:-URL

C:-UNIX

D:-Server

Correct Answer:- Option-D

Question86:-First functional electron microscope was developed by

A:-Knowl and Ruska

B:-Daniel Nathans

C:-Robert Hook

D:-None of the above

Correct Answer:- Option-A

Question87:-Beer-Lambert law is applied in

- A:-Electrophoresis
- B:-Chromatography
- C:-Colorimetry
- D:-Centrifugation

Correct Answer:- Option-C

Question88:-Wild Life Protection Act was enacted in

- A:-1972
- B:-1960
- C:-2001
- D:-1968

Correct Answer:- Option-A

Question89:-Mutation theory was proposed by

- A:-T. H. Morgan
- B:-Hugo Devries
- C:-Lamarck
- D:-Carl Correns

Correct Answer:- Option-B

Question90:-The first restriction endonuclease enzyme discovered was _____

- A:-Hind II
- B:-Eco R I
- C:-Pst I
- D:-Sat I

Correct Answer:- Option-A

Question91:-Which of the following is considered as the leader of Chipko Movement ?

- A:-Baba Amte
- B:-Medha Padkar
- C:-Sunderlal Bahuguna
- D:-Kiran Bedi

Correct Answer:- Option-C

Question92:-Headquarters of UNEP is at _____

- A:-Switzerland
- B:-USA
- C:-France
- D:-Nairobi

Correct Answer:- Option-D

Question93:-Which of the following is an ecotone ?

- A:-Estuary
- B:-Pond
- C:-Lake
- D:-River

Correct Answer:- Option-A

Question94:-Point out mangrove vegetation

- A:-Rhiopoda
- B:-Rhinozoa
- C:-Rhinoceros
- D:-Rhizophora

Correct Answer:- Option-D

Question95:-The chromosome theory of heredity was proposed by

- A:-Sutton and Boveri
- B:-Jacob and Monod
- C:-Bateson and Punnet
- D:-Correns and Tschermark

Correct Answer:- Option-A

Question96:-The crossing over take place during

- A:-Zygotene
- B:-Diplotene
- C:-Pachytene
- D:-Diakinesis

Correct Answer:- Option-C

Question97:-What is "black water fever" ?

- A:-Leishmaniasis
- B:-Falciparum malaria
- C:-Hepatitis
- D:-Plague

Correct Answer:- Option-B

Question98:-Which type of infectious disease is known as "Thursh" ?

- A:-Giardiasis
- B:-Cholera
- C:-Sporotrichosis
- D:-Candidosis

Correct Answer:- Option-D

Question99:-The enzyme gyrase is associated with

- A:-Transcription
- B:-DNA repair
- C:-Translation
- D:-None of the above

Correct Answer:- Option-D

Question100:-Which of the following method is used for studying/detecting gene expression ?

- A:-Subtractive hybridization
- B:-Microarray hybridization
- C:-Southern hybridization
- D:-Differential display PCR

Correct Answer:- Option-C