

PROVISIONAL ANSWER KEY

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Question1:-The Muslim cultural organization called Muhammadiya Sabha was founded by

- A:-Makhti Tangal
- B:-E. Moidu Moulavi
- C:-Vakkom Abdul Khader Moulavi
- D:-Hamadani Tangal

Correct Answer:- Option-A

Question2:-India established full diplomatic relation with Israel in the year

- A:-2016
- B:-1998
- C:-1988
- D:-1992

Correct Answer:- Option-D

Question3:-Jana Padasala was founded by

- A:-Sree Narayana Guru
- B:-Vaikunda Swamikal
- C:-Swami Vagbhadananda
- D:-Chittampi Swamikal

Correct Answer:- Option-C

Question4:-Who was the first editor of the Malayalam news paper Keralamithram ?

- A:-C. V. Kunhirama Menon
- B:-Kandathil Varghese Mappila
- C:-K. C. Maman Mappila
- D:-Devji Bhimji

Correct Answer:- Option-B

Question5:-In which year Ayyankali founded the first school for the lower castes in Venganoor ?

- A:-1909
- B:-1927
- C:-1917
- D:-1907

Correct Answer:- Option-D

Question6:-In the beginning, the Malayalam news paper Kerala Kaumdi started its publication from

- A:-Alapuzha
- B:-Kollam
- C:-Mayyanad
- D:-Thiruvananthapuram

Correct Answer:- Option-C

Question7:-The Wild Life Photographer who spotted a rare white tiger for the first time in the Nilgiris biosphere reserve in Tamil Nadu is

- A:-Nilanjan Ray
- B:-Steve Bloom
- C:-Rohit Varma
- D:-Moose Peterson

Correct Answer:- Option-A

Question8:-The Pak test fired short range Surface to Surface ballistic Missile is

- A:-Babur-3
- B:-Nasr
- C:-Barq
- D:-Zarb

Correct Answer:- Option-B

Question9:-The Chairman of the GST Council is

- A:-President of India
 - B:-Prime Minister of India
 - C:-Union Finance Secretary
 - D:-Union Finance Minister
- Correct Answer:- Option-D

Question10:-The book, Monuments Matter : India's Archaeological Heritage Since Independence is authored by

- A:-Nayanjot Lahiri
 - B:-B. B. Lal
 - C:-John Marshall
 - D:-Mortimer Wheeler
- Correct Answer:- Option-A

Question11:-A criterion-referenced testing

- A:-Encourage and reward individual excellence in achievement
 - B:-Sample the domain of a particular achievement area broadly
 - C:-Interpret test scores in relation to established norms
 - D:-Emphasise mastery of specific subject matter by all pupils
- Correct Answer:- Option-D

Question12:-Ability of an individual to generate a variety of ideas, solutions, alternatives, designs and methods is known as

- A:-Flexibility
 - B:-Fluency
 - C:-Originality
 - D:-Elaboration
- Correct Answer:- Option-A

Question13:-Perfection in performance is identified under psycho-motor domain as

- A:-Naturalisation
 - B:-Articulation
 - C:-Precision
 - D:-Manipulation
- Correct Answer:- Option-A

Question14:-A three-dimensional scene in depth, incorporating a group of modelled objects and figures in a natural setting is called as

- A:-Moke-ups
 - B:-Puppets
 - C:-Diorama
 - D:-Working models
- Correct Answer:- Option-C

Question15:-The technique of presentation of an aversive stimulus or withholding of a positive stimulus to decrease the possibility of a response is

- A:-Positive reinforcement
 - B:-Punishment
 - C:-Negative reinforcement
 - D:-None of the above
- Correct Answer:- Option-B

Question16:-When writing an introduction to a research report the structure proceeds from

- A:-The general to the specific
 - B:-The specific to the general
 - C:-The general to the specific and back to the general
 - D:-The general to the results of the research
- Correct Answer:- Option-A

Question17:-Plagiarism in research is

- A:-Provide citation whenever another person's work is used your thinking
 - B:-Use paragraph after paragraph out of one or more sources and present them as a paper with citations
 - C:-Use someone else words/ideas in research without proper citation
 - D:-None of the above
- Correct Answer:- Option-C

Question18:-A qualitative research approach in which you study cultural groups in natural setting over a prolonged period of time with a holistic view of culture is known as

- A:-Content Analysis
- B:-Ethnography

C:-Case study

D:-Phenomenology

Correct Answer:- Option-B

Question19:-In an experimental design measures what it intended to measure, that design has a high level of

A:-Reliability

B:-Ecological validity

C:-External validity

D:-Internal validity

Correct Answer:- Option-D

Question20:-The significance of stratified sampling is that

A:-It reduces non-response bias

B:-It ensures members of different segments of a population are represented in a sample

C:-It reduces the randomness in sampling

D:-None of the above

Correct Answer:- Option-B

Question21:-What type of government is established in India by the Constitution of India ?

A:-Presidential Government

B:-Parliamentary Government

C:-Quasi Presidential

D:-Quasi Parliamentary

Correct Answer:- Option-B

Question22:-When was the Constitution of India adopted by the Constituent Assembly ?

A:-`26^(th)` November 1946

B:-`26^(th)` January 1949

C:-`26^(th)` November 1949

D:-`26^(th)` January 1950

Correct Answer:- Option-C

Question23:-Article 21A of the Indian Constitution specifies about

A:-Right to Education

B:-Right to Property

C:-Right to Equality

D:-Right against Exploitation

Correct Answer:- Option-A

Question24:-Name the commission constituted to study and report on the working of centre-state relations in India.

A:-Kothari Commission

B:-Mandal Commission

C:-Liberhan Commission

D:-Sarkaria Commission

Correct Answer:- Option-D

Question25:-How many amendments are there in the Constitution of India at present ?

A:-86

B:-91

C:-93

D:-101

Correct Answer:- Option-D

Question26:-What is the percentage of seats reserved for women in the Women's Reservation Bill passed by the Rajya Sabha on `9^(th)` March 2010 ?

A:-25%

B:-33%

C:-45%

D:-50%

Correct Answer:- Option-B

Question27:-Which year was the "Protection of Children from Sexual Offences Act" enacted ?

A:-2002

B:-2006

C:-2012

D:-2015

Correct Answer:- Option-C

Question28:-What is the maximum period within which information under RTI Act 2005 should be received ?

A:-15 days

B:-30 days

C:-45 days

D:-60 days

Correct Answer:- Option-B

Question29:-How many Sections does the Environment Protection Act 1986 contain ?

A:-25 Sections

B:-26 Sections

C:-30 Sections

D:-32 Sections

Correct Answer:- Option-B

Question30:-Which is the Supreme Court case which held that "right to pollution free air" is also to be included within the scope of "right to life" ?

A:-Kesavananda Bharati vs State of Kerala, 1973

B:-Olga Tellis vs Bombay Municipal Corporation, 1985

C:-S. R. Bommai vs Union of India, 1994

D:-M. C. Mehta vs Union of India, 2004

Correct Answer:- Option-D

Question31:-Powdery mildew of rubber is caused by

A:-Erysiphe

B:-Oidium

C:-Phytophthora

D:-Puccinia

Correct Answer:- Option-B

Question32:-mRNA is synthesized by which RNA polymerase ?

A:-RNA Polymerase I

B:-RNA Polymerase II

C:-RNA Polymerase III

D:-RNA Polymerase IV

Correct Answer:- Option-B

Question33:-The organelle directly involves in Apoptosis

A:-Mitochondria

B:-Golgi complex

C:-Endoplasmic reticulum

D:-Ribosome

Correct Answer:- Option-A

Question34:-In which Era Angiosperms continued to diversify ?

A:-Paleozoic

B:-Mesozoic

C:-Cenozoic

D:-Archeozoic

Correct Answer:- Option-C

Question35:-The classification of organism based entirely on observed phenotypic similarities and differences are called

A:-Phenetics

B:-Cladistics

C:-Phyletics

D:-None of the above

Correct Answer:- Option-A

Question36:-Geosmin is a volatile substance produced by

A:-Actinomycetes

B:-Zygomycetes

C:-Basidiomycetes

D:-Phycomycetes

Correct Answer:- Option-A

Question37:-Pollinia are present in which of the following family ?

A:-Apocynaceae

B:-Verbenaceae

C:-Asclepiadaceae

D:-Lamiaceae

Correct Answer:- Option-C

Question38:-Casprian thickening in endodermis is made up of

A:-Cutine

B:-Suberine

C:-Pectin

D:-Chitin

Correct Answer:- Option-B

Question39:-Which of the following is a non-nucleated cell ?

A:-Companion cell

B:-Sieve tube

C:-Trachied

D:-Collenchyma

Correct Answer:- Option-B

Question40:-Caryopsis is the type of fruit found in which of the following family ?

A:-Asteraceae

B:-Cyperaceae

C:-Poaceae

D:-Amaranthaceae

Correct Answer:- Option-C

Question41:-The stage of meiosis in which chromosomes pairs and cross over takes place

A:-Prophase I

B:-Metaphase I

C:-Prophase II

D:-Metaphase II

Correct Answer:- Option-A

Question42:-Which of the following is not an adaptive modification of a xerophytic plant ?

A:-Well developed Aerenchyma

B:-Sunken stomata

C:-Scale leaves

D:-Lacunar tissues

Correct Answer:- Option-A

Question43:-Proton motive force during oxidative phosphorylation is generated in mitochondria by

A:-Exchanging protons for Na^+ ions

B:-Pumping protons out in the intermembrane space

C:-Pumping OH ions in the mitochondria

D:-Hydrolysis of ATP

Correct Answer:- Option-B

Question44:-Which one of the following compounds is not a part of alkaloid class of secondary metabolite ?

A:-Lignin

B:-Indole

C:-Propane

D:-Pyrrolidine

Correct Answer:- Option-A

Question45:-Which one of the following is not true for monocots ?

A:-Sieve tubes with companion cells

B:-Vascular bundles are numerous

C:-Vascular cambium present

D:-All of the above

Correct Answer:- Option-C

Question46:-Which one of the following chemical is a DNA intercalator ?

A:-5-bromouracil

B:-Ethyl methyl sulfonate

C:-Acridine orange

D:-None of the above

Correct Answer:- Option-C

Question47:-In Eukaryotic replication helicase loading occurs with all replications during

A:- G_0 phase

B:- G_1 phase

C:-S phase

D:-`G_(2)` phase

Correct Answer:- Option-B

Question48:-The dye used in gram staining is

A:-Methyl blue

B:-Rhodamine

C:-Crystal violet

D:-Fast green

Correct Answer:- Option-C

Question49:-Which of the following makes it possible to calculate the pKa of any acid from the molar ratio of proton donor ?

A:-Henderson-Hasselbalch equation

B:-Jennings-Kaback equation

C:-Arnon-Jagendorf equation

D:-None of the above

Correct Answer:- Option-A

Question50:-Which one of the following is a heterosporous Pteridophyte ?

A:-Psilotum

B:-Equisetum

C:-Selaginella

D:-Pteris

Correct Answer:- Option-C

Question51:-Which one of the following Bryophyte shows algal association in the thallus ?

A:-Riccia

B:-Marchantia

C:-Anthoceros

D:-Targionia

Correct Answer:- Option-C

Question52:-A pie chart or circle graph can be used to display

A:-Quantitative data

B:-Qualitative data

C:-Both data

D:-None of the above

Correct Answer:- Option-C

Question53:-Which of the following is not a biodiversity application software ?

A:-ALICE

B:-WORLD MAP

C:-LITCHI

D:-GLIS

Correct Answer:- Option-D

Question54:-Lymphocytes that activate B cells and T cells are

A:-Macrophage

B:-Helper T cells

C:-Cytotoxic T cells

D:-All of the above

Correct Answer:- Option-B

Question55:-Winged pollen grains are found in

A:-Pinus

B:-Gnetum

C:-Podocarpus

D:-Cycas

Correct Answer:- Option-A

Question56:-Circinate vernation is present in which of the following pteridophyte ?

A:-Selaginella

B:-Lycopodium

C:-Marsilia

D:-Equisetum

Correct Answer:- Option-C

Question57:-The system of classification by Hutchinson is an example for

A:-Phylogenetic

B:-Artificial

C:-Natural

D:-None of the above

Correct Answer:- Option-A

Question58:-Hypanthodium is the characteristic inflorescence of

A:-Ocimum

B:-Ficus

C:-Sunflower

D:-Calotropis

Correct Answer:- Option-B

Question59:-The actual range of an organism in nature is termed as

A:-Fundamental Niche

B:-Realized Niche

C:-Habitat

D:-Ecosystem

Correct Answer:- Option-B

Question60:-A bioinformatic tool used to find the sequence similarity in the subunit of Hemoglobin is

A:-FASTA

B:-PSI PLOT

C:-HUMMER

D:-BLAST

Correct Answer:- Option-D

Question61:-During double fertilization in plants, one of the sperm fuse with the egg cell and other sperm fuse with

A:-Synergid cell

B:-Central cell

C:-Antipodal cell

D:-Nucellus cell

Correct Answer:- Option-B

Question62:-A cross is made between a pure breeding plant having red colored flowers with a pure breeding plant having white colored flowers. Such a cross is called

A:-Test cross

B:-Monohybrid cross

C:-Dihybrid cross

D:-Back cross

Correct Answer:- Option-B

Question63:-Which one of the following is a vital stain ?

A:-Cotton blue

B:-Ganus green

C:-Crystal violet

D:-Safranin

Correct Answer:- Option-B

Question64:-rRNA is synthesized in

A:-Nucleus

B:-Nucleolus

C:-Mitochondria

D:-Cytoplasm

Correct Answer:- Option-B

Question65:-Which of the following compound is generally translocated in the phloem ?

A:-Sucrose

B:-D-glucose

C:-D-mannose

D:-D-fructose

Correct Answer:- Option-A

Question66:-Which among the following is the thiamine deficiency disease ?

A:-Pellagra

B:-Scurvy

C:-Beriberi

D:-Rickets

Correct Answer:- Option-C

Question67:-Which theory was proposed by Weismann ?

- A:-Mutation theory
 - B:-Germplasm theory
 - C:-Use and disuse theory
 - D:-Modern synthetic theory
- Correct Answer:- Option-B

Question68:-What is the scientific name of Lion-tailed macaque ?

- A:-Macaca radiata
 - B:-Trachypithecus johnii
 - C:-Semnopithecus entellus
 - D:-Macaca silenus
- Correct Answer:- Option-D

Question69:-Who invented the technique for sequencing DNA strands ?

- A:-Craig Venter
 - B:-Alan Maxam
 - C:-Frederic Sanger
 - D:-Walter Gilbert
- Correct Answer:- Option-C

Question70:-Which antibody mediate type I hypersensitivity (anaphylactic) reactions ?

- A:-Ig E
- B:-Ig G
- C:-Ig M
- D:-Ig D

Correct Answer:- Option-A

Question71:-Which is a copper containing respiratory pigment ?

- A:-Chlorocruorin
- B:-Haemocyanin
- C:-Haemerythrin
- D:-Myoglobin

Correct Answer:- Option-B

Question72:-How will you calculate your pulse pressure ?

- A:-By adding the maximum and minimum pressures measured
- B:-By multiplying the maximum and minimum pressures measured
- C:-By dividing the maximum and minimum pressures measured
- D:-By finding out the difference between the maximum and minimum pressures measured

Correct Answer:- Option-D

Question73:-Which is the most prominent excitatory transmitter ?

- A:-Dopamine
- B:-Acetylcholine
- C:-Glutamate
- D:-Somatostatin

Correct Answer:- Option-C

Question74:-Which region is considered as the 'Cradle of Speciation' ?

- A:-Western Himalaya
- B:-Eastern Himalaya
- C:-Western Ghats
- D:-Gangetic Plain

Correct Answer:- Option-B

Question75:-Which among the following has cement glands ?

- A:-Mytilus
- B:-Pholas
- C:-Lithophage
- D:-Chiton

Correct Answer:- Option-D

Question76:-Which genetic element provide palaeontological records of evolutionary events ?

- A:-Junk DNA
- B:-Transposons
- C:-Overlapping genes
- D:-Pseudogenes

Correct Answer:- Option-A

Question77:-Which enzyme is serving as 'molecular glue' that is used to produce recombinant DNA ?

- A:-Lyases
- B:-Ligases
- C:-Polymerases
- D:-Endonucleases

Correct Answer:- Option-B

Question78:-What is spelaeology ?

- A:-Study of desert
- B:-Study of grassland
- C:-Study of caves
- D:-Study of tundra

Correct Answer:- Option-C

Question79:-Who proposed the term 'eugenics' ?

- A:-Muller
- B:-Clintock
- C:-Morgan
- D:-Galton

Correct Answer:- Option-D

Question80:-Which learning behaviour helps a baby bird to identify its mother ?

- A:-Sexual imprinting
- B:-Filial imprinting
- C:-Imitation
- D:-Sensitization

Correct Answer:- Option-B

Question81:-Which law of Mendel is called as the 'Law of purity of gametes' ?

- A:-Law of dominance
- B:-Law of independent assortment
- C:-Law of segregation
- D:-All of these

Correct Answer:- Option-C

Question82:-Name the technique which is used for the detection of proteins by the use of antibodies.

- A:-Northern Blotting
- B:-Southern Blotting
- C:-Western Blotting
- D:-PAGE

Correct Answer:- Option-C

Question83:-Among the following which explains the sex chromatin body and gene dosage compensation in mammals ?

- A:-Lyon hypothesis
- B:-Mutation theory
- C:-Chromosome theory
- D:-Genic balance theory

Correct Answer:- Option-A

Question84:-What would happen through the trisomy to the 21st pair of autosomes ?

- A:-Klinefelter's syndrome
- B:-Down's syndrome
- C:-Turner's syndrome
- D:-Edward's syndrome

Correct Answer:- Option-B

Question85:-Evolution of bat is an example for

- A:-Macro evolution
- B:-Micro evolution
- C:-Coevolution
- D:-Mega evolution

Correct Answer:- Option-D

Question86:-Egg of which organism exhibit holoblastic equal cleavage ?

- A:-Bony fish
- B:-Frog
- C:-Amphioxus
- D:-Bird

Correct Answer:- Option-C

Question87:-Which among the following is a Japan based database ?

- A:-Genbank
- B:-DDBJ
- C:-EMBL
- D:-None of these

Correct Answer:- Option-B

Question88:-Which germ layer shows epiboly ?

- A:-Ectoderm
- B:-Endoderm
- C:-Mesoderm
- D:-All of these

Correct Answer:- Option-A

Question89:-What is the name given to the organism which live at the air-water interface ?

- A:-Periphyton
- B:-Nekton
- C:-Neuston
- D:-Benthos

Correct Answer:- Option-C

Question90:-Which is the first step of ecological succession ?

- A:-Nudation
- B:-Ecesis
- C:-Aggregation
- D:-Reaction

Correct Answer:- Option-A

Question91:-Which is the first phase of the cardiac cycle ?

- A:-Isovolumetric contraction period
- B:-Ventricular ejection period
- C:-Isovolumetric relaxation period
- D:-Ventricular filling period

Correct Answer:- Option-D

Question92:-Melatonin is a derivative of which amino acid ?

- A:-Glutamate
- B:-Valine
- C:-Tryptophan
- D:-Methionine

Correct Answer:- Option-C

Question93:-Name the graph that contains frequencies in the form of vertical rectangles.

- A:-Histogram
- B:-Line graph
- C:-Bar diagram
- D:-Range chart

Correct Answer:- Option-A

Question94:-What is the product of the fusion between a plasma cell and a tumour cell ?

- A:-Lymphoma
- B:-Hybridoma
- C:-Myeloma
- D:-Natural Killer cell

Correct Answer:- Option-B

Question95:-Which cycle is known as Warburg-Dickens-Horecker pathway ?

- A:-Krebs cycle
- B:-Ornithine cycle
- C:-Pentose phosphate cycle
- D:-EMP pathway

Correct Answer:- Option-C

Question96:-Which group of genes respond to same environmental signal even though they may encode different proteins whose functions are different ?

- A:-Modulon
- B:-Operons

C:-Regulons

D:-Stimulons

Correct Answer:- Option-D

Question97:-Among the following which is a primary inductor ?

A:-Chorda mesoderm

B:-Optic vesicle

C:-Lens

D:-Cornea

Correct Answer:- Option-A

Question98:-In which type of learning behavior, reasoning ability is used to solve problems rapidly ?

A:-Latent learning

B:-Imitation

C:-Insight learning

D:-Imprinting

Correct Answer:- Option-C

Question99:-According to whom each organic being is continuously improved by nature ?

A:-Darwin

B:-Lamarck

C:-Henslow

D:-Mayr

Correct Answer:- Option-A

Question100:-Who reported the presence of respiratory centre in the medulla of brain ?

A:-Eccles

B:-Berger

C:-Walter

D:-Mislavsky

Correct Answer:- Option-D