

FINAL ANSWER KEY

Question Paper Code:	25/2017/OL
Category Code:	281/2016
Exam:	Sr Scientific Assistant Dpt of Physiology
Medium of Question:	English
Date of Test	24-03-2017
Department	Medical Education
Alphacode	A

Question1:-Who wrote 'Daivadesakam'?

- A:-Kumaranasan
 - B:-Dr. Palpu
 - C:-Sree Narayana Guru
 - D:-Vaikunda Swamikal
- Correct Answer:- Option-C

Question2:-Who urged the people to throw away the ornaments made of stone and iron glass pieces?

- A:-Ayyankali
 - B:-Vagbhatanandan
 - C:-Sahodaran Ayyappan
 - D:-Thycaud Ayya
- Correct Answer:- Option-A

Question3:-Karatt Govindamenon was later known as

- A:-T.K. Madhavan
 - B:-Mannath Padbhanaban
 - C:-Chattampi Swamikal
 - D:-Brahmananda Sivayogi
- Correct Answer:- Option-D

Question4:-Atmavidya Sangham was founded in

- A:-1919
 - B:-1922
 - C:-1921
 - D:-1920
- Correct Answer:-**Question Cancelled**

Question5:-'Atmanuthapam' is the work of

- A:-Kuriakose Elias Chavara
 - B:-Velukutty Arayan
 - C:-Poikayil Sree Kumara Gurudevan
 - D:-Pandit Karuppan
- Correct Answer:- Option-A

Question6:-Head of the Kerala Folklore Academy

- A:-KPAC Lalitha
 - B:-Vaisakhan
 - C:-C.J. Kuttappan
 - D:-M. Mukundan
- Correct Answer:- Option-C

Question7:-Founder of Canara Bank

- A:-Sree Ramalu
 - B:-Ammemba Subha Rao Pai
 - C:-Pattabhi Seetharamaya
 - D:-Hormis
- Correct Answer:- Option-B

Question8:-The size of newly issued Indian rupee 2,000

- A:-66 mm × 150 mm
 - B:-66 mm × 100 mm
 - C:-66 mm × 160 mm
 - D:-66 mm × 166 mm
- Correct Answer:- Option-D

Question9:-The Present Chairman of Kerala Public Service Commission

- A:-M.K. Sakeer
- B:-K.S. Radhakrishnan
- C:-K. Gangadharan
- D:-Salahudheen

Correct Answer:- Option-A

Question10:-'Sangeetha Perunkadal' is the biography of _____ penned by Ranimynthan.

- A:-Thyagaraja
- B:-Maharaja Santhanam
- C:-M. Balamuralikrishna
- D:-T.M. Krishna

Correct Answer:- Option-C

Question11:-The Muslim League founded at

- A:-Dhaka
- B:-Bombay
- C:-Lahore
- D:-Karachi

Correct Answer:- Option-A

Question12:-Which part of Indian Constitution is considered as the Magna Carta of India?

- A:-Part II
- B:-Part I
- C:-Part IV
- D:-Part III

Correct Answer:- Option-D

Question13:-Directive Principle of Indian Constitution is indebted to

- A:-German Constitution
- B:-British Constitution
- C:-Irish Constitution
- D:-American Constitution

Correct Answer:- Option-C

Question14:-Dandi March is associated with

- A:-Champan Satyagraha
- B:-Civil Disobedience Movement
- C:-Non-co-operation Movement
- D:-Quit India Movement

Correct Answer:- Option-B

Question15:-National Statistics day is

- A:-June 26
- B:-June 24
- C:-June 28
- D:-June 29

Correct Answer:- Option-D

Question16:-'Planned Economy for India' is the work of

- A:-M. Visweswarayya
- B:-Aravind Panagaria
- C:-K.C. Panth
- D:-Montegsingh Aluvalia

Correct Answer:- Option-A

Question17:-Producer of the film 'Raja Harichandra'

- A:-Debaki Chandrabose
- B:-Mehaboobkhan
- C:-Dadasaheb Phalke
- D:-Satyajith Rai

Correct Answer:- Option-C

Question18:-Nephology is the scientific study of

- A:-Trees
- B:-Clouds
- C:-Desert
- D:-Earth

Correct Answer:- Option-B

Question19:-Koneru Hampy is related to

- A:-Boxing
- B:-Tennis
- C:-Badminton
- D:-Chess

Correct Answer:- Option-D

Question20:-In which Satyagraha Gandhiji interfered for workers

- A:-Ahmedabad
- B:-Bombay
- C:-Champaran
- D:-Kheda

Correct Answer:- Option-A

Question21:-Animals of cold countries have shorter ear is

- A:-Allen's law
- B:-Cope's law
- C:-Bergman's law
- D:-Dollo's law

Correct Answer:- Option-A

Question22:-Continuity of Germplasm theory was proposed by

- A:-Hugo De Vries
- B:-August Weismann
- C:-Darwin
- D:-Lamarck

Correct Answer:- Option-B

Question23:-Evolution of marsupials in Australia is due to

- A:-Adaptive Radiation
- B:-Convergent evolution
- C:-Polymorphism
- D:-Phylogenetic evolution

Correct Answer:- Option-A

Question24:-Species which are morphologically similar but donot interbreed are

- A:-Polytypic species
- B:-Evolutionary species
- C:-Sibiling species
- D:-Sub species

Correct Answer:- Option-C

Question25:-The construction of the first recombinant DNA was done by using the native plasmid of

- A:-E. Coli
- B:-Salmonella
- C:-Bacillus
- D:-Yeast

Correct Answer:- Option-B

Question26:-Cry I endotoxins obtained from Bacillus thuringiensis are effective agent

- A:-Nematoda
- B:-Ball worms
- C:-Mosquito
- D:-Cestoda

Correct Answer:- Option-B

Question27:-Hybridoma cells are

- A:-Nerve cells of frog
- B:-Carcinoma cells
- C:-Oncogenes
- D:-Hybrid cells from Mylemo

Correct Answer:- Option-D

Question28:-Transfer of DNA bands from an agarose gels to a nitrocellulose or nylon membrane is referred to as

- A:-Western transfer
- B:-Northern transfer
- C:-Eastern transfer
- D:-Southern transfer

Correct Answer:- Option-D

Question29:-The globular protein, which masks the active sites on the F-actin is

- A:-Troponin
- B:-Tropomyosin
- C:-Myosin
- D:-Actin

Correct Answer:-**Question Cancelled**

Question30:-The decoding and interpretation of visual information is carried out by

- A:-Cerebellum
- B:-Frontal lobe
- C:-Occipital lobe
- D:-Temporal lobe

Correct Answer:- Option-C

Question31:-Jacobson's organ is concerned with

- A:-Sight
- B:-Touch
- C:-Chemicals
- D:-Smell

Correct Answer:- Option-D

Question32:-Inspiratory centre located in

- A:-Cerebellum
- B:-Medulla oblongata
- C:-Hypothalamus
- D:-Cerebrum

Correct Answer:- Option-B

Question33:-Hypothalamus does not control

- A:-Creative thinking
- B:-Hunger
- C:-Thirst
- D:-Osmoregulation

Correct Answer:- Option-A

Question34:-Milk secretion in mammals is associated with

- A:-Oxytocin
- B:-Vasopressin
- C:-Prolactin
- D:-Progesterone

Correct Answer:-**Question Cancelled**

Question35:-Adreno Cortico Tropic Hormone (ACTH) consists of

- A:-39 Amino acids
- B:-19 Amino acids
- C:-29 Amino acids
- D:-49 Amino acids

Correct Answer:- Option-A

Question36:-Cushing's disease is due to the over stimulation of

- A:-Adrenal medulla
- B:-Thyroid
- C:-Pituitary
- D:-Adrenal cortex

Correct Answer:- Option-D

Question37:-Compound stomach is seen in

- A:-Cat
- B:-Dog
- C:-Cow
- D:-Man

Correct Answer:- Option-C

Question38:-Brunner's glands are found in the

- A:-Ileum
- B:-Duodenum
- C:-Colon

D:-Stomach

Correct Answer:- Option-B

Question39:-Oxyntic cell in the stomach gastric pits secrete

A:-Mucus

B:-Pepsinogen

C:-Saliva

D:-HCl

Correct Answer:- Option-D

Question40:-The enzyme present in bile

A:-Lipase

B:-Pepsin

C:-Renin

D:-None of the above

Correct Answer:- Option-D

Question41:-The cycle of reactions by which lactic acid is transformed to muscle glycogen is known as

A:-Kreb's cycle

B:-Cori cycle

C:-Glycolysis

D:-Calvin cycle

Correct Answer:- Option-B

Question42:-Chloride shift is otherwise known as

A:-Bohr effect

B:-Kreb's cycle

C:-Hamberger's phenomenon

D:-Oxygen dissociation

Correct Answer:- Option-C

Question43:-The normal range of urea in 100 ml mammalian blood

A:-17 - 30 mg

B:-40 - 80 mg

C:-56 - 70 mg

D:-70 - 80 mg

Correct Answer:- Option-A

Question44:-The pacemaker of the heart is

A:-AV node

B:-Bundle of His

C:-SA node

D:-Pacer cells

Correct Answer:- Option-C

Question45:-In ECG the depolarisation of atria is represented by

A:-P-wave

B:-Q-wave

C:-R-wave

D:-T-wave

Correct Answer:- Option-A

Question46:-Osmoregulation of marine elasmobranch is conducted by

A:-Drinking of sea water

B:-Large kidneys

C:-Retention of urea in blood

D:-Absorption of water

Correct Answer:- Option-C

Question47:-Marine reptiles regulate the salt balance with help of

A:-Gills

B:-Salt glands

C:-Chloride cells

D:-Rectal glands

Correct Answer:- Option-B

Question48:-Which one of the following is an excretory organ?

A:-Archeocyte

B:-Choanocyte

C:-Cnidocyte

D:-Solenocyte

Correct Answer:- Option-D

Question49:-The water reabsorption in the DCT and collecting duct is regulated by

A:-ACTH

B:-Aldosterone

C:-ADH

D:-Renin

Correct Answer:- Option-C

Question50:-The only vertebrate osmoconformer

A:-Hag Fish

B:-Star Fish

C:-Flying Fish

D:-Silver Fish

Correct Answer:- Option-A

Question51:-The number of cervical vertebrae in Giraffe

A:-14

B:-7

C:-12

D:-4

Correct Answer:- Option-B

Question52:-The flight muscle of birds are attached to

A:-Keel

B:-Clavicle

C:-Scapula

D:-Coracoid

Correct Answer:- Option-A

Question53:-The cell which secrete male sexhormone testosterone are

A:-Isthmus

B:-Crypt cell

C:-Sertoli cell

D:-Leydig cell

Correct Answer:- Option-D

Question54:-The initial stages of insect development are determined by

A:-Zygotic genes

B:-Homeo box

C:-Maternal genes

D:-Homeodomain

Correct Answer:- Option-C

Question55:-The proliferation and aggregation of endodermal cell occurs from

A:-Splanchnic mesoderm

B:-Myocardial cells

C:-Visceral mesoderm

D:-All the above

Correct Answer:- Option-A

Question56:-The constriction experiment on newt egg was conducted by

A:-Hildebrandt

B:-Curtis

C:-Hans Driesch

D:-Spemann

Correct Answer:- Option-D

Question57:-Autecology deals with

A:-Ecology of many species

B:-Ecology of a species

C:-Ecology of community

D:-All the above

Correct Answer:- Option-B

Question58:-Pyramid of energy on any ecosystem is

A:-Always upright

B:-May be up or inverted

C:-Always inverted

D:-None of the above

Correct Answer:- Option-A

Question59:-Succession initiated on large sand deposits or desert is called

A:-Hydrosere

B:-Psammosere

C:-Xerosere

D:-Halosere

Correct Answer:- Option-B

Question60:-The head quarters of IUCN

A:-Switzerland

B:-Paris

C:-Vienna

D:-Newyork

Correct Answer:- Option-A

Question61:-Which group of vertebrates comprises the highest number of endangered species?

A:-Fishes

B:-Birds

C:-Mammals

D:-Reptiles

Correct Answer:- Option-C

Question62:-Earth summit was held at

A:-Stockholm in 1992

B:-Paris in 1992

C:-New York in 1992

D:-Rio de Jenerio in 1992

Correct Answer:- Option-D

Question63:-A high BOD (Biochemical Oxygen Demand) indicate that

A:-Water is pure

B:-Absence of microbial activity

C:-High level of oxygen

D:-Low level of oxygen

Correct Answer:-**Question Cancelled**

Question64:-If the stronger partner is benefited and weak partner is damaged, it is known as

A:-Allelopathy

B:-Symbiosis

C:-Predation

D:-Commensalism

Correct Answer:- Option-C

Question65:-Bacterial cell wall is made up of

A:-Chitin

B:-Cellulose

C:-Dextrin

D:-Peptidoglycan

Correct Answer:- Option-D

Question66:-The extra chromosomal, circular, double stranded self replicating DNA molecule in bacteria is called

A:-Cosmid

B:-Phagemid

C:-Plasmid

D:-Phasmid

Correct Answer:- Option-C

Question67:-The initial complement component that is bound by complement antibodies is

A:-`"C_1"`` Q

B:-`"C_1"`` S

C:-`"C_3"`` b

D:-`"C_5"`` a

Correct Answer:- Option-A

Question68:-CDB is the marker of

- A:-B-cells
 - B:-Helper T-cells
 - C:-Cytotoxic T-cells
 - D:-Activated macrophage
- Correct Answer:- Option-C

Question69:-The circulation of a two month old breast fed baby will contain

- A:- "I_gA"
- B:- "I_gB"
- C:- "I_gE"
- D:- "I_gG"

Correct Answer:- Option-D

Question70:-An example of a known oncogenic virus is

- A:-Herpes Zoster
- B:-HIV-2
- C:-Epstein-Barr
- D:-Proteus Mirabilis

Correct Answer:- Option-C

Question71:-Which one of the following mast cell products is not performed and there fore has to be newly synthesized?

- A:-Histamine
- B:-Prostaglandin "D_2"
- C:-Heparin
- D:-Neutral protease

Correct Answer:- Option-B

Question72:-The mononuclear phagocyte system does not include

- A:-Monocyte
- B:-Kuffer cells
- C:-Macrophages
- D:-Endothelial cells

Correct Answer:- Option-D

Question73:-Unwinding of DNA is done by

- A:-Helicase
- B:-Ligase
- C:-Hexonuclease
- D:-Topoisomerase

Correct Answer:- Option-A

Question74:-The distortion in DNA helix is due to pyrimidine dimer formation is called as

- A:-Nick
- B:-SS breaks
- C:-Kink
- D:-None of these

Correct Answer:- Option-C

Question75:-The end products of translation are

- A:-Aminoacids
- B:-Lipids
- C:-Polypeptide
- D:-All these

Correct Answer:- Option-C

Question76:-The lac operon in E. coli is involved in

- A:-Regulating the expression of gene
- B:-Controlling DNA replication
- C:-Regulating the translation of mRNA
- D:-Controlling the formation of ribosomes

Correct Answer:- Option-A

Question77:-t-test was (student's t-test) was developed by

- A:-William Gosset
- B:-Fischer
- C:-George Snedecor
- D:-Karl Pearson

Correct Answer:- Option-A

Question78:-A two dimensional frequency density diagram is

- A:-Pie diagram
- B:-Histogram
- C:-Frequency polygon
- D:-Line diagram

Correct Answer:- Option-B

Question79:-The highest form of learning is

- A:-Habituation
- B:-Conditioning
- C:-Imprinting
- D:-Insight learning

Correct Answer:- Option-D

Question80:-Winter sleep is usually called as

- A:-Diapause
- B:-Aestivation
- C:-Hibernation
- D:-Circadian rhythm

Correct Answer:- Option-C

Question81:-Human pheromones attracted by mosquitoes are (Releaser hormones)

- A:-Copulin
- B:-Kairomones
- C:-Genaniol
- D:-Indoles

Correct Answer:- Option-B

Question82:-Living, unstained cells and organisms can be observed best using

- A:-Fluorescent
- B:-Phase contrast
- C:-TEM
- D:-SEM

Correct Answer:- Option-B

Question83:-The intercalated discs are present in

- A:-Skeletal muscle
- B:-Voluntary muscle
- C:-Smooth muscle
- D:-Cardiac muscle

Correct Answer:- Option-D

Question84:-The Magnification of light microscope is

- A:-1500 X
- B:-2000 X
- C:-1000 X
- D:-2500 X

Correct Answer:- Option-A

Question85:-Highly repetitive nucleotide sequences localised at the centromeres is known as

- A:-B-DNA
- B:-Satellite DNA
- C:-H-DNA
- D:-C-DNA

Correct Answer:- Option-B

Question86:-Vitamins was first discovered by

- A:-Calvin
- B:-Jenner
- C:-Funk
- D:-Parlov

Correct Answer:- Option-C

Question87:-A steroid vitamin is

- A:-A
- B:-E
- C:-D
- D:-K

Correct Answer:- Option-C

Question88:-The chromatographic technique depends on

- A:-Adsorption
- B:-Desorption
- C:-None of the above
- D:-Both of the above

Correct Answer:- Option-D

Question89:-Enzymes having slightly different structures but perform identical activity are called as

- A:-Isozymes
- B:-Allo enzymes
- C:-Holo enzyme
- D:-Co enzymes

Correct Answer:- Option-A

Question90:-In electrophoresis the amino acids migrate in an electric field except

- A:-pH-7
- B:-Isoelectric point
- C:-pH-4
- D:-pH-10

Correct Answer:- Option-B

Question91:-The term mitochondria was proposed by

- A:-Benda
- B:-Kollikkar
- C:-Palade
- D:-Richard Altman

Correct Answer:- Option-A

Question92:-Polytene chromosomes are formed by process called

- A:-Exomitosis
- B:-Endomitosis
- C:-Duplication
- D:-Meiosis

Correct Answer:- Option-B

Question93:-Teminism is same as

- A:-Translation
- B:-DNA synthesis
- C:-Transcription
- D:-Reverse transcriptase

Correct Answer:- Option-D

Question94:-Anticodon is located on

- A:-DNA
- B:-tRNA
- C:-rRNA
- D:-mRNA

Correct Answer:- Option-B

Question95:-The term genome denotes

- A:-Diploid set of chromosome
- B:-Mono valent
- C:-Haploid set of chromosome
- D:-Bivalent

Correct Answer:- Option-C

Question96:-Sex chromosome of a female bird are represented by

- A:-XX
- B:-ZZ
- C:-ZW
- D:-XY

Correct Answer:- Option-C

Question97:-The World Biodiversity day is celebrated on

- A:-5th June
- B:-29th December
- C:-22nd April

D:-16th September

Correct Answer:-**Question Cancelled**

Question98:-Tay Sachs disease is due the deficiency of

A:-`quadalpha-` Galactosidase

B:-Hexose aminidase A and B

C:-Glucocerebrosidase

D:-Hexose aminidase A

Correct Answer:- Option-D

Question99:-The shifting of a part the chromosome to non-homologous chromosome is known as

A:-Position effect

B:-Mutation

C:-Translocation

D:-Inversion

Correct Answer:- Option-C

Question100:-In the male reproductive system, sperms are concentrated in the

A:-Rete-testis

B:-Seminal vesicle

C:-Vas deferens

D:-Epididymis

Correct Answer:- Option-D