

# FINAL ANSWER KEY

Question Paper Code : 19/2019/OL  
Category Code :151/2018  
Exam :Assistant Professor in Physiology NCA  
Medium of Question :English  
Date of Test :11-06-2019  
Department :Medical Education  
Alphacode :A

Question1:-Which state has become India's first state to bring a law against 'sextortion'?

- A:-Himachal Pradesh
- B:-Jammu and Kashmir
- C:-Manipur
- D:-Kerala

Correct Answer:- Option-B

Question2:-The national milk day (NMD-2018) is celebrated on which of the following dates in India?

- A:-November 26
- B:-December 16
- C:-January 24
- D:-February 2

Correct Answer:- Option-A

Question3:-India's longest rail-cum road bridge is located in which of the following states?

- A:-Arunachal Pradesh
- B:-Nagaland
- C:-Assam
- D:-Meghalaya

Correct Answer:- Option-C

Question4:-Auther of "Ananda Sutram"

- A:-Sreenarayana Guru
- B:-V T Bhatathirippad
- C:-Poikayil Yohannan
- D:-Brahmananda Sivayogi

Correct Answer:- Option-D

Question5:-Who is known as Muthukutti Swami?

- A:-Vaikunda Swamikal

- B:-Chattambi Swamikal
- C:-Swami Vagbhatananda
- D:-Swami Agamananda
- Correct Answer:- Option-A

Question6:-The newspaper Sujana nadhini started from Paravur in

- A:-1896
- B:-1891
- C:-1887
- D:-1889

Correct Answer:- Option-B

Question7:-Ruler of Travancore during the time of Vaikkam Sathyagraha

- A:-Gouri Parvathi Bai
- B:-Sri Mulam Tirunal
- C:-Ayilyam Tirunal
- D:-Regent Setu Lakshmi Bai

Correct Answer:- Option-D

Question8:-Who was the captain of Guruvayur Temple entry campaign?

- A:-T. Subramanian Tirumumbu
- B:-K. Kelappan
- C:-P. Krishna Pillai
- D:-Mannathu Padmanabhan

Correct Answer:- Option-A

Question9:-Who entered on an indefinite fast before Guruvayur temple on Sep 21, 1932 in connection with

- A:-A.K. Gopalan
- B:-Mannathu Padmanabhan
- C:-K. Kelappan
- D:-P. Krishna Pillai

Correct Answer:- Option-C

Question10:-Yoga Kshema movement started in

- A:-1908
- B:-1904
- C:-1901
- D:-1907

Correct Answer:- Option-A

Question11:-Where did Sree Narayana Guru installed the idol of Saraswathi?

- A:-Aruvipuram
- B:-Varkala
- C:-Alwaye
- D:-Karamukku

Correct Answer:- Option-B

Question12:-Who opened an English school at Mattancheri in 1818?

A:-Rev Mead

B:-Dr. Gundert

C:-W.T. Ringletaube

D:-Rev. J. Dawson

Correct Answer:- Option-D

Question13:-Who abolished the devadasi system in temples of south Travancore?

A:-Sethu Lakshmi Bai

B:-Gouri Parvathi Bai

C:-Sri Chitra Tirunal

D:-Uthradam Thirunal

Correct Answer:- Option-A

Question14:-Tellicherry Brennen School started in

A:-1862

B:-1852

C:-1886

D:-1902

Correct Answer:- Option-A

Question15:-Ayyankali was called pulayaraja by

A:-B.R. Ambedkar

B:-M.K. Gandhi

C:-Sreenarayana Guru

D:-G.P. Pillai

Correct Answer:- Option-B

Question16:-Author of the novel "Premamrutham"

A:-C.V. Raman Pillai

B:-P. Kesavdev

C:-Thakazhi Sivasankara Pillai

D:-S.K. Pottekkad

Correct Answer:- Option-A

Question17:-Who was the provisional president of constituent assembly in India?

A:-Dr. B.R. Ambedkar

B:-Dr. Rajendra Prasad

C:-Sardar Vallabhai Pattel

D:-Dr. Sachidananda Sinha

Correct Answer:- Option-D

Question18:-In which year was the right to property removed from fundamental rights of Indian Constitution?

A:-1978

B:-1973

C:-1969

D:-1979

Correct Answer:- Option-A

- Question19:-Which among the following amendment of Indian Constitution replaced the right to property fr
- A:-44th amendment
  - B:-43rd amendment
  - C:-42nd amendment
  - D:-46th amendment
- Correct Answer:- Option-A
- Question20:-Fundamental duties of citizens were added to the Indian Constitution in
- A:-1974
  - B:-1976
  - C:-1978
  - D:-1972
- Correct Answer:- Option-B
- Question21:-Which of the following proteins are called as folding proteins?
- A:-Perforins
  - B:-Chaperons
  - C:-Tubulins
  - D:-Clathrins
- Correct Answer:- Option-B
- Question22:-Enzyme which converts testosterone to estradiol in ovarian follicle is
- A:-Isomerase
  - B:-Dehydrogenase
  - C:-Aromatase
  - D:-Transferase
- Correct Answer:- Option-C
- Question23:-Fusion of sperm with membrane of ovum is mediated by
- A:-Acrosin
  - B:-Fertilin
  - C:-Catsper
  - D:-Inhibin
- Correct Answer:- Option-B
- Question24:-The main excitatory neurotransmitter in central nervous system is
- A:-Glutamate
  - B:-Substance P
  - C:-Enkephalin
  - D:-Serotonin
- Correct Answer:- Option-A
- Question25:-Bicarbonate reabsorption is maximum in
- A:-Medullary collecting duct
  - B:-Distal convoluted tubule
  - C:-Proximal convoluted tubule
  - D:-Cortical collecting duct

Correct Answer:- Option-C

Question26:-Fibres from ipsilateral hemiretina project in which layer of lateral geniculate body

A:-1,4,6

B:-2,3,5

C:-1,3,6

D:-2,4,6

Correct Answer:- Option-B

Question27:-All of the following are dopamine agonists EXCEPT

A:-Bromocriptine

B:-Apomorphine

C:-Clozapine

D:-Pramipexole

Correct Answer:- Option-C

Question28:-The inclusion bodies seen in neurons of parkinsonism patients are

A:-Lewy bodies

B:-Russell bodies

C:-Negri bodies

D:-Schaumann bodies

Correct Answer:- Option-A

Question29:-The substance that is present both in serum and plasma is

A:-Prothrombin

B:-Antihemophilic factor A

C:-Fibrinogen

D:-Proconvertin

Correct Answer:- Option-D

Question30:-An agent which causes contraction of mesangial cells is

A:-Atrial natriuretic peptide

B:-Dopamine

C:-cAMP

D:-Endothelins

Correct Answer:- Option-D

Question31:-Cerebellar nystagmus occurs due to damage to

A:-Anterior lobe

B:-Flocculonodular lobe

C:-Posterior lobe

D:-Vermis

Correct Answer:- Option-B

Question32:-Type of cell NOT present in olfactory bulb

A:-Mitral cell

B:-Granule cell

C:-Tufted cell

D:-Horizontal cell

Correct Answer:- Option-D

Question33:-Which of the following is increased when radius of resistance vessels is increased?

A:-Haematocrit

B:-Diastolic blood pressure

C:-Capillary blood flow

D:-Systolic blood pressure

Correct Answer:- Option-C

Question34:-Which of the following is NOT a cause of edema?

A:-Decreased capillary permeability

B:-Decreased plasma protein

C:-Increased venous pressure

D:-Inadequate lymph flow

Correct Answer:- Option-A

Question35:-Dicrotic notch in aortic pressure curve is caused by closure of

A:-Tricuspid valve

B:-Pulmonary valve

C:-Mitral valve

D:-Aortic valve

Correct Answer:- Option-D

Question36:-Fourth heart sounds is caused by

A:-Closure of aortic and pulmonary valve

B:-Ventricular filling

C:-Closure of mitral and tricuspid valve

D:-Vibrations in ventricular wall during systole

Correct Answer:- Option-B

Question37:-Largest volume of gas that can be moved into and out of the lungs in one minute by voluntary

A:-Respiratory minute volume

B:-Forced vital capacity

C:-Maximum voluntary ventilation

D:-Total lung capacity

Correct Answer:- Option-C

Question38:-Which of the following plays a major role in vasodilatation of penis during erection?

A:-Nitric oxide

B:-Vasopressin

C:-Bradykinin

D:-Prostaglandin

Correct Answer:- Option-A

Question39:-Sensory system codes for the following attributes of a stimulus EXCEPT

A:-Modality

B:-Sensitization

C:-Intensity

D:-Location

Correct Answer:- Option-B

Question40:-Which of the following is NOT a characteristic of smooth muscle?

A:-Slow cycling of myosin cross bridges

B:-Low energy requirement to sustain contraction

C:-Stress relaxation

D:-Maximum force of contraction is less than that of skeletal muscle

Correct Answer:- Option-D

Question41:-Duration of AV nodal delay is

A:-0.1 seconds

B:-0.3 seconds

C:-0.5 seconds

D:-0.7 seconds

Correct Answer:- Option-A

Question42:-Second polar body is extruded

A:-At the time of ovulation

B:-At the time of LH surge

C:-At the time of fertilization of the ovum

D:-48 hours prior to ovulation

Correct Answer:- Option-C

Question43:-Compound action potential is the property of

A:-Sensory nerve

B:-Mixed nerve

C:-Single nerve fibre

D:-Motor nerve

Correct Answer:- Option-B

Question44:-The wheal in triple response occurs due to

A:-increased capillary permeability

B:-arteriolar dilation

C:-axon reflex

D:-contraction of precapillary sphincters

Correct Answer:- Option-A

Question45:-Which of the following has the highest pH?

A:-Saliva

B:-Gastric juice

C:-Gall bladder bile

D:-Pancreatic juice

Correct Answer:- Option-D

Question46:-EEG rhythm with lowest frequency is

A:-Alpha

- B:-Beta
- C:-Delta
- D:-Theta

Correct Answer:- Option-C

Question47:-Effective renal plasma flow in humans is

- A:-425 ml/min
- B:-525 ml/min
- C:-625 ml/min
- D:-725 ml/min

Correct Answer:- Option-C

Question48:-Group A nerve fibres are most susceptible to

- A:-Pressure
- B:-Hypoxia
- C:-Temperature
- D:-Local anaesthetics

Correct Answer:- Option-A

Question49:-Which of the following is a peptide hormone?

- A:-Estrogen
- B:-Parathormone
- C:-Thyroxine
- D:-Cortisol

Correct Answer:- Option-B

Question50:-Sperms persist in female genital tract for

- A:-1-2 minutes
- B:-1-2 hours
- C:-1-2 days
- D:-1-2 weeks

Correct Answer:- Option-C

Question51:-Water reabsorption is maximum from

- A:-duodenum
- B:-colon
- C:-ileum
- D:-jejunum

Correct Answer:- Option-D

Question52:-The most abundant cell type in Islets of Langerhans is

- A:-A
- B:-B
- C:-D
- D:-F

Correct Answer:- Option-A

Question53:-Work done in quiet breathing is

A:-0.1 kg-m/min

B:-1.2 kg-m/min

C:-0.5 kg-m/min

D:-3.5 kg-m/min

Correct Answer:- Option-C

Question54:-Conversion of fibrinogen to fibrin is catalysed by

A:-Thromboplastin

B:-Stuart Prower Factor

C:-Proconvertin

D:-Thrombin

Correct Answer:- Option-D

Question55:-Which of the following causes a right shift of oxygen dissociation curve?

A:-Decrease in body temperature

B:-Foetal haemoglobin

C:-Myoglobin

D:-Decrease in blood pH

Correct Answer:- Option-D

Question56:-Which of the following is NOT an example of syndromic deafness?

A:-Liddle's syndrome

B:-Pendred syndrome

C:-Long QT syndrome

D:-Bartter syndrome

Correct Answer:- Option-A

Question57:-Which sensation is not lost on the same side of lesion in Brown Sequard Syndrome?

A:-Position sense

B:-Vibration

C:-Temperature

D:-Touch

Correct Answer:- Option-C

Question58:-Heavy water is used to determine

A:-Intracellular fluid volume

B:-Extracellular fluid volume

C:-Plasma volume

D:-Total body water

Correct Answer:- Option-D

Question59:-Spermatozoa acquire motility in

A:-Vas deferens

B:-Epididymis

C:-Rete testis

D:-Prostate

Correct Answer:- Option-B

Question60:-Functional residual capacity in male is

- A:-2.2 L
- B:-3.2 L
- C:-4.2 L
- D:-5.2 L

Correct Answer:- Option-A

Question61:-Glial cells which help in making Blood brain barrier are

- A:-Oligo dendrocytes
- B:-Schwann cells
- C:-Astrocytes
- D:-Microglia

Correct Answer:- Option-C

Question62:-Weber Fechner law deals with

- A:-Receptive field organization
- B:-Intensity discrimination
- C:-Tactile localization
- D:-None

Correct Answer:- Option-B

Question63:-Which of the following is an Orexigenic factor?

- A:-Corticotropin releasing hormone
- B:-Glucagon
- C:-Leptin
- D:-Neuropeptide Y

Correct Answer:- Option-D

Question64:-Stokes Adams syndrome is loss of consciousness following

- A:-Ventricular fibrillation
- B:-Complete heart block
- C:-Myocardial infarction
- D:-Ventricular tachycardia

Correct Answer:- Option-B

Question65:-Effect of storage of blood on RBCs are all EXCEPT

- A:-RBCs become spherical
- B:-Depletion of ATP
- C:-Loss of membrane stability
- D:-Increased glycolysis

Correct Answer:- Option-D

Question66:-Prosopagnosia is the inability to

- A:-Draw straight lines
- B:-Recognize faces
- C:-Count in order
- D:-Perceive pain

Correct Answer:- Option-B

Question67:-Which of the following is facilitatory to stretch reflex?

- A:-Vestibular nucleus
- B:-Cerebellum
- C:-Motor cortex
- D:-Basal ganglia

Correct Answer:- Option-A

Question68:-Betz cells are found in

- A:-Thalamus
- B:-Hypothalamus
- C:-Motor cortex
- D:-Sensory cortex

Correct Answer:- Option-C

Question69:-Gastric acid secretion is stimulated by all EXCEPT

- A:-Acetyl choline
- B:-Histamine
- C:-Secretin
- D:-Gastrin

Correct Answer:- Option-C

Question70:-Lesion in angular gyrus produces

- A:-Motor aphasia
- B:-Sensory aphasia
- C:-Conductive aphasia
- D:-Anomic aphasia

Correct Answer:- Option-D

Question71:-The blobs of visual cortex are associated with

- A:-Colour processing
- B:-Orientation
- C:-Ocular movements
- D:-Ocular dominance

Correct Answer:- Option-A

Question72:-Which of the following is an example of a trinucleotide repeat disease?

- A:-Wilson's disease
- B:-Cystic fibrosis
- C:-Hereditary spherocytosis
- D:-Huntington's disease

Correct Answer:- Option-D

Question73:-Muscle weakness caused by antibodies against calcium channels in nerve endings at neuromuscular junction is

- A:-Myasthenia gravis
- B:-Lambert Eaton syndrome
- C:-Multiple sclerosis

D:-Muscular dystrophy

Correct Answer:- Option-B

Question74:-K cells of intestine secrete

A:-Secretin

B:-Vasoactive Intestinal Peptide

C:-Gastric Inhibitory Peptide

D:-Cholecystokinin

Correct Answer:- Option-C

Question75:-All are produced by kidney EXCEPT

A:-Vitamin D

B:-Renin

C:-Erythropoietin

D:-Aldosterone

Correct Answer:- Option-D

Question76:-The principal buffer in interstitial fluid is

A:-Carbonic acid

B:-Phosphate

C:-Haemoglobin

D:-Ammonia

Correct Answer:- Option-A

Question77:-Blood flow is almost always turbulent when Reynold's number is more than

A:-2000

B:-3000

C:-4000

D:-5000

Correct Answer:- Option-B

Question78:-Respiratory burst in neutrophil is due to

A:-NADH oxidase

B:-Elastase

C:-Myeloperoxidase

D:-NADPH oxidase

Correct Answer:- Option-D

Question79:-Cholagogues are substances which cause

A:-Increases biliary secretion from liver

B:-Neutralizes acid chyme

C:-Contraction of gall bladder

D:-Helps in absorption of fat soluble vitamins

Correct Answer:- Option-C

Question80:-Bicarbonate in gastric mucosal barrier is secreted from

A:-Chief cells

B:-Oxyntic cells

C:-Surface mucosal cells

D:-Neck cells

Correct Answer:- Option-C

Question81:-Mechanism by which digitalis increases myocardial contractility is by

A:-Inhibiting sodium potassium pump

B:-Activating protein kinase

C:-Decreasing adrenaline levels in myocardium

D:-Decreasing break down of Camp

Correct Answer:- Option-A

Question82:-Migrating motor complex is initiated by

A:-Guanylin

B:-Motilin

C:-Peptide YY

D:-Somatostatin

Correct Answer:- Option-B

Question83:-Fluctuations in blood pressure synchronized with respiration are

A:-Traube Hering Waves

B:-Mayer waves

C:-Slow waves

D:-Gamma oscillations

Correct Answer:- Option-A

Question84:-Example of a condition which cause distributive shock is

A:-Hemorrhage

B:-Burns

C:-Anaphylaxis

D:-Tension pneumothorax

Correct Answer:- Option-C

Question85:-Hyperbaric oxygen therapy is of no use in

A:-Carbon monoxide poisoning

B:-Gas gangrene

C:-Diabetic leg ulcer

D:-Congestive cardiac failure

Correct Answer:- Option-D

Question86:-During exercise, arterio venous oxygen difference

A:-Increases

B:-First decreases then increases

C:-Decreases

D:-Remains same

Correct Answer:- Option-A

Question87:-The first urge to pass urine is felt as urinary bladder volume of

A:-100 ml

B:-150 ml

C:-250 ml

D:-300 ml

Correct Answer:- Option-B

Question88:-All of the following are effects of prolonged stay in space EXCEPT

A:-Decrease in red cell mass

B:-Loss of bone mass

C:-Increase in blood volume

D:-Decrease in muscle strength

Correct Answer:- Option-C

Question89:-Which of the following diuretic acts on proximal tubule?

A:-Spironolactone

B:-Amiloride

C:-Frusemide

D:-Acetazolamide

Correct Answer:- Option-D

Question90:-Which of the following increases extracellular potassium concentration?

A:-Insulin

B:-Aldosterone

C:-Alkalosis

D:-Severe exercise

Correct Answer:- Option-D

Question91:-Which of the following is NOT a component of Papez circuit?

A:-Cingulate gyrus

B:-Mammillary body

C:-Posterior thalamic nucleus

D:-Hippocampus

Correct Answer:- Option-C

Question92:-A mutation in KALIG1 gene is seen in

A:-Kartagener's syndrome

B:-Kallmann syndrome

C:-Klinefelter's syndrome

D:-Kluver Bucy syndrome

Correct Answer:- Option-B

Question93:-The protein which connects Z line to M line and provides scaffolding for sarcomere is

A:-Titin

B:-Desmin

C:-Actinin

D:-Troponin

Correct Answer:- Option-A

Question94:-The average arm to tongue circulation time is

- A:-5 seconds
- B:-10 seconds
- C:-15 seconds
- D:-20 second

Correct Answer:- Option-C

Question95:-Human Chorionic Gonadotropin acts on

- A:-LH receptor
- B:-FSH receptor
- C:-TSH receptor
- D:-ACTH receptor

Correct Answer:- Option-A

Question96:-Effect of deafferentation of bladder is

- A:-Shrunken and hypertrophied wall
- B:-Spastic with hyperactive voiding reflex
- C:-Overfilled with dribbling
- D:-Distended, thin walled and hypotonic

Correct Answer:- Option-D

Question97:-The diluting segment of nephron is

- A:-Proximal convoluted tubule
- B:-Thick ascending limb of loop of Henle
- C:-Descending limb of loop of Henle
- D:-Medullary collecting duct

Correct Answer:- Option-B

Question98:-Oral contraceptive pills act by

- A:-Inhibiting ovulation
- B:-Decreasing motility of sperms
- C:-Spermicidal action
- D:-Increasing motility of fallopian tubes

Correct Answer:- Option-A

Question99:-The Poiseuille Hagen formula calculates relation among the following EXCEPT

- A:-Flow in a narrow tube
- B:-pH of blood
- C:-Radius of the tube
- D:-Viscosity of blood

Correct Answer:- Option-B

Question100:-Gap junctions are made up of proteins called

- A:-Connexons
- B:-Caspases
- C:-Dyneins
- D:-Cadherins

Correct Answer:- Option-A

