

# PROVISIONAL ANSWER KEY

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Question1:-Which is a biodiversity hotspot in India ?

- A:-Eastern Himalayas
- B:-Thar Desert
- C:-Eastern Coast
- D:-Ganga Basin

Correct Answer:- Option-A

Question2:-Indian Institute of Advanced Studies is situated at

- A:-New Delhi
- B:-Kolkata
- C:-Shimla
- D:-Bengaluru

Correct Answer:- Option-C

Question3:-Black soil is normally found in

- A:-Sivalik Hills
- B:-Lakshadweep
- C:-Deccan Plateau
- D:-Northern Plains

Correct Answer:- Option-C

Question4:-Mahabalipuram is located in the State of

- A:-Telangana
- B:-Karnataka
- C:-Maharashtra
- D:-Tamil Nadu

Correct Answer:- Option-D

Question5:-The Play Neel Darpan was published during indigo revolt of Bengal by

- A:-Aurobindo Ghosh
- B:-Shisir Kumar Ghosh
- C:-Dinabandhu Mitra
- D:-Rabindranath Tagore

Correct Answer:- Option-C

Question6:-Gadhar Party was formed by

- A:-Lala Har Dayal
- B:-Bagat Singh
- C:-S.C. Bose
- D:-Motilal Nehru

Correct Answer:- Option-A

Question7:-Which is not a bird sanctuary in Kerala ?

- A:-Thattekkad
- B:-Kadalundi
- C:-Mangalavanam
- D:-Kottakkunnu

Correct Answer:- Option-D

Question8:-The capital of Tipu Sultan in Malabar

- A:-Arakkal
- B:-Feroke
- C:-Kappad
- D:-Tirurangadi

Correct Answer:- Option-B

Question9:-Kerala Kalamandalam is a

- A:-Deemed University
  - B:-Private University
  - C:-State University
  - D:-Central University
- Correct Answer:- Option-A

Question10:-How many times Gandhiji visited Kerala during freedom struggle ?

- A:-2
- B:-3
- C:-4
- D:-5

Correct Answer:- Option-D

Question11:-The Golden Ball Winner of FIFA World Cup 2018

- A:-Lionel Messi
- B:-Luca Modric
- C:-Kyllian Mbappe
- D:-Eden Hazard

Correct Answer:- Option-B

Question12:-Tham Luang cave is situated in

- A:-Thailand
- B:-Indonesia
- C:-Philippines
- D:-Malaysia

Correct Answer:- Option-A

Question13:-Secretary of States of America

- A:-James Mattis
- B:-Mike Pompeo
- C:-Rex Tillerson
- D:-Condoleezza rice

Correct Answer:- Option-B

Question14:-President Ramnath Kovind previously served as the Governor from 2015 to 2017 of

- A:-U P
- B:-Bihar
- C:-Odisha
- D:-Jharkhand

Correct Answer:- Option-B

Question15:-Who is the 53<sup>rd</sup> Jnanpith Award winner ?

- A:-Balchandra Nemade
- B:-Raghuveer Chaudhari
- C:-Shankha Ghosh
- D:-Krishna Sobti

Correct Answer:- Option-D

Question16:-Malayali Social Union (Later renamed as Malayali Sabha) established at Thiruvananthapuram in the year

- A:-1877
- B:-1914
- C:-1899
- D:-1892

Correct Answer:- Option-A

Question17:-Ayyankali was belonging to

- A:-Paraya family
- B:-Pulaya family
- C:-Cheruma family
- D:-Kanakka family

Correct Answer:- Option-B

Question18:-Pampadi Joseph published 'Cheramar Dhoothan' from

- A:-Thiruvananthapuram
- B:-Mannanam
- C:-Changanassery
- D:-Kayamkulam

Correct Answer:- Option-C

Question19:-The organization established at Alppuzha by the inspiration Vakkamabulkhader Moulavi

- A:-Lajnett-ul-Hamdani
- B:-Rauzath-ul-uloom
- C:-Lajnett-ul-Muhammadiyya Sangham
- D:-Dar-ul-Maarif

Correct Answer:- Option-C

Question20:-Who established 'Sidhashramam' at Alathur ?

- A:-Poikayil Yohannan
- B:-Chattambi Swamikal
- C:-Pandit Karuppan
- D:-Brahmanada Sivayogi

Correct Answer:- Option-D

Question21:-Absolute zero of temperature corresponds to

- A:- $273.15^{\circ}\text{C}$
- B:- $-273.15^{\circ}\text{C}$
- C:- $0^{\circ}\text{C}$
- D:- $100^{\circ}\text{C}$

Correct Answer:- Option-B

Question22:-On removing the valve, the air escaping from a cycle tube comes cool, because

- A:-It is an isothermal expansion
- B:-It is an isothermal compression
- C:-It is an adiabatic expansion
- D:-It is an adiabatic compression

Correct Answer:- Option-C

Question23:-When a capillary tube of diameter 4 mm is immersed vertically in water, water rises upto a height of 5 cm. If another capillary tube of diameter 2 mm is immersed in water, to what height water will rise to ?

- A:-4 cm
- B:-5 cm
- C:-8 cm
- D:-10 cm

Correct Answer:- Option-D

Question24:-Which of the following is the unit of Universal Gravitational Constant ?

- A:- $\text{kgm}^2 \text{ s}^{-1}$
- B:- $\text{m}^3 \text{ kg}^{-1} \text{ s}^{-2}$
- C:- $\text{kgms}^{-2}$
- D:- $\text{mkg}^3 \text{ s}^{-2}$

Correct Answer:- Option-B

Question25:-What is the moment of inertia of a ring about a tangent to the circle of the ring ?

- A:- $\frac{3}{2} MR^2$
- B:- $\frac{1}{4} MR^2$
- C:- $\frac{2}{5} MR^2$
- D:- $MR^2$

Correct Answer:- Option-A

Question26:-Which one of the following is not ferromagnetic ?

- A:-Cobalt
- B:-Nickel
- C:-Iron
- D:-Bismuth

Correct Answer:- Option-D

Question27:-The equation for the displacement of a particle in SHM is given by

$$x = 0.04 \sin \left( \frac{2\pi}{0.01} t + \frac{\pi}{4} \right)$$

Where x is in cm, t is in seconds, the maximum velocity is

- A:- $8\pi$
- B:- $2\pi/0.01$
- C:- $4\pi$
- D:- $\pi/4$

Correct Answer:- Option-A

Question28:-An electric dipole of length 2 cm is kept inclined at an angle  $30^{\circ}$  with an electric field of intensity  $4 \times 10^5 \text{ N/C}$ . If it experiences a torque equal to 8 Nm, what is the charge on the dipole ?

A:-4 mC

B:-1 mC

C:-2 mC

D:-6 mC

Correct Answer:- Option-C

Question29:-Which of the following radiation is used to take photographs of distant objects ?

A:-Microwaves

B:-X-rays

C:-UV-rays

D:-IR-radiations

Correct Answer:- Option-D

Question30:-If earth shrinks to half of its present radius without any change in its mass, then how does the duration of a day changes ?

A:-Decreases

B:-Increases

C:-No change

D:-May increase or decrease

Correct Answer:- Option-A

Question31:-Rutherford conducted the scattering experiment using

A:-`beta` -particles

B:-`alpha` -particles

C:-`gamma` -particles

D:-photons

Correct Answer:- Option-B

Question32:-The hybridisation of carbon in diamond is

A:-`sp`<sup>2</sup>

B:-sp

C:-`sp`<sup>3</sup>

D:-`sp`<sup>3</sup> d

Correct Answer:- Option-C

Question33:-Permanent hardness cannot be removed by

A:-Adding washing soda to water

B:-Boiling water

C:-Adding calgon

D:-Passing through resin

Correct Answer:- Option-B

Question34:-The shape of methane molecule is

A:-tetrahedral

B:-linear

C:-pyramidal

D:-planar

Correct Answer:- Option-A

Question35:-Milk is an example of

A:-foam

B:-gel

C:-emulsion

D:-sol

Correct Answer:- Option-C

Question36:-Graphite belongs to which type of crystalline structure ?

A:-Hexagonal

B:-Monoclinic

C:-Triclinic

D:-Cubic

Correct Answer:- Option-A

Question37:-Germanium is refined by

A:-distillation

B:-liquation

C:-electrolysis

D:-zone refining

Correct Answer:- Option-D

Question38:-Non-sticky coating of frying pans is made by a polymer

A:-PAN

B:-HDP

C:-TEFLON

D:-Buna-N

Correct Answer:- Option-C

Question39:-Which test is used for identifying phenol ?

A:-Schiff's test

B:-Tollen's test

C:-Lucas test

D:-Neutral ferric chloride

Correct Answer:- Option-D

Question40:-The anode of Laclanche cell is made up of

A:-Zinc

B:-Copper

C:-Aluminium

D:-Magnesium

Correct Answer:- Option-A

Question41:-Pollination by bat is

A:-Hydrophily

B:-Cheiropterophily

C:-Malacophily

D:-Entomophily

Correct Answer:- Option-B

Question42:-Pisum sativum belongs to the family

A:-Solanaceae

B:-Fabaceae

C:-Malvaceae

D:-Liliaceae

Correct Answer:- Option-B

Question43:-Pyramid of number is inverted in

A:-Pond ecosystem

B:-Grassland ecosystem

C:-Parasitic ecosystem

D:-Fresh water ecosystem

Correct Answer:- Option-C

Question44:-In which phase of cell cycle does replication of genetic material takes place ?

A:-S phase

B:-`G\_0` phase

C:-`G\_(1)` phase

D:-`G\_2` phase

Correct Answer:- Option-A

Question45:-Which among the following represents non-sense codons ?

A:-UAA

B:-UAG

C:-UGA

D:-All of these

Correct Answer:- Option-D

Question46:-The chief pigment associated with photosynthesis is

A:-Chlorophyll b

B:-Chlorophyll c

C:-Chlorophyll a

D:-Chlorophyll d

Correct Answer:- Option-C

Question47:-Hypercalcemic hormone is

A:-Thyroxine

B:-Thymosin

C:-Parathyroid hormone

D:-Adrenalin

Correct Answer:- Option-C

Question48:-The excretory organs in cockroach is

A:-Gills

B:-Malpighian tubules

C:-Book gills

D:-Book lungs

Correct Answer:- Option-B

Question49:-Aorta arises from

A:-Right atrium

B:-Left atrium

C:-Right ventricle

D:-Left ventricle

Correct Answer:- Option-D

Question50:-The protein portion of the enzyme is

A:-Apoenzyme

B:-Prosthetic group

C:-Co-factor

D:-Coenzyme

Correct Answer:- Option-A

Question51:-Which of the following cells is not a WBC ?

A:-Neutrophil

B:-Basophil

C:-Manocyte

D:-Thrombocyte

Correct Answer:- Option-D

Question52:-The colouring agent used in antisera AB is

A:-Methelene blue

B:-Acriflavin

C:-Eosin

D:-Safranin

Correct Answer:- Option-C

Question53:-Name the anticoagulant present in purple coloured vacutainer tube

A:-Heparin

B:-EDTA

C:-Sodium citrate

D:-None of these

Correct Answer:- Option-B

Question54:-pH of buffered distilled water used in Leishman's staining is

A:-6.8

B:-7.2

C:-7.4

D:-8

Correct Answer:- Option-A

Question55:-Blood collected in CPD-A can be stored in blood bank refrigerator for \_\_\_\_\_ days.

A:-35

B:-28

C:-21

D:-25

Correct Answer:- Option-A

Question56:-HDN due to Rh incompatibility can be prevented by giving anti-D antibody to Rh negative mother within \_\_\_\_\_ hours of delivery of Rh positive infant.

A:-48 hrs

B:-72 hrs

C:-24 hrs

D:-36 hrs

Correct Answer:- Option-B

Question57:-Which of the following is not an RBC diluting fluid ?

A:-Normal saline

- B:-Dacies fluid
- C:-Turkes fluid
- D:-Toissons fluid

Correct Answer:- Option-C

Question58:-During donor screening persons having history of malaria should be avoided for a period of \_\_\_\_\_ years.

- A:-1 week
- B:-2 years
- C:-1 year
- D:-3 years

Correct Answer:- Option-D

Question59:-Bombay blood group persons have \_\_\_\_\_ antigen in their blood.

- A:-A Ag
- B:-B Ag
- C:-h Ag
- D:-H Ag

Correct Answer:- Option-C

Question60:-Depth of improved neubauer counting chamber is

- A:-0.1 mm
- B:-.01 mm
- C:-.001 mm
- D:-1 mm

Correct Answer:- Option-A

Question61:-Name the enzyme estimation done in semen sample to analyse the secretory function of prostate

- A:-alanine transaminase
- B:-aspartate transaminase
- C:-acid phosphatase
- D:-alkaline phosphatase

Correct Answer:- Option-C

Question62:-The only cell in normal CSF is

- A:-Neutrophil
- B:-Lymphocyte
- C:-Monocyte
- D:-None of these

Correct Answer:- Option-B

Question63:-Name the tests used to detect bile salt in urine.

- A:-Benzidine test
- B:-Fouchet's test
- C:-Ehrlich's test
- D:-Hays test

Correct Answer:- Option-D

Question64:-Ketone bodies in urine are

- A:-acetone
- B:-`beta` hydroxy butyric acid
- C:-Both 1 and 2
- D:-None of these

Correct Answer:- Option-C

Question65:-Normal sperm count is

- A:-80 - 160 millions / ml
- B:-40 - 80 millions / ml
- C:-100 - 120 millions / ml
- D:-140 - 200 millions / ml

Correct Answer:- Option-A

Question66:-Name the hormone detected in pregnancy.

- A:-ADH
- B:-GH
- C:-TSH
- D:-hCG

Correct Answer:- Option-D

Question67:-Specific gravity of urine less than 1.010 indicates

- A:-Diabetes mellitus
- B:-Diabetes insipidus
- C:-Diabetic ketoacidosis
- D:-None of the above

Correct Answer:- Option-B

Question68:-'Glucose memory test' is

- A:-GCT
- B:-Hb`A\_1` C
- C:-GTT
- D:-PPBS

Correct Answer:- Option-B

Question69:-Which of the following is not a renal function test ?

- A:-Serum urea
- B:-Serum creatinine
- C:-Cystatin - C
- D:-Total cholesterol

Correct Answer:- Option-D

Question70:-Who is known as 'father of microbiology' ?

- A:-Louis Pasteur
- B:-Robert Koch
- C:-Alexander Fleming
- D:-Edward Jenner

Correct Answer:- Option-A

Question71:-Serum electrolytes are analysed using

- A:-Calorimeter
- B:-Flamephotometer
- C:-Spectrophotometer
- D:-None of these

Correct Answer:- Option-B

Question72:-Van-den-Bergh reaction is used to detect

- A:-Serum creatinine
- B:-Serum urea
- C:-Serum bilirubin
- D:-Blood glucose

Correct Answer:- Option-C

Question73:-Cob-Web appearance of clot in CSF indicates

- A:-Jaundice
- B:-Haemorrhage
- C:-Spinal constriction
- D:-Tuberculous meningitis

Correct Answer:- Option-D

Question74:-\_\_\_\_\_ is otherwise known as 'bad cholesterol'.

- A:-LDL
- B:-HDL
- C:-VLDL
- D:-Chylomicrons

Correct Answer:- Option-A

Question75:-All the following are motile bacteria except

- A:-E.Coli
- B:-Klebsiella
- C:-Vibrio
- D:-Proteus

Correct Answer:- Option-B

Question76:-Oils and grease can be sterilised using

- A:-autoclave
- B:-vaccine bath
- C:-hot air oven
- D:-none of these



Correct Answer:- Option-C

Question77:-Solidifying agent of a culture media is

- A:-peptone
- B:-meat extract
- C:-sodium chloride
- D:-agar

Correct Answer:- Option-D

Question78:-\_\_\_\_\_ is added to Mac Conkeys agar to inhibit the growth of gram positive bacteria.

- A:-Bile salt
- B:-Peptone
- C:-Neutral red
- D:-Agar

Correct Answer:- Option-A

Question79:-All the following are examples of transport media except

- A:-VR medium
- B:-Thioglycollate medium
- C:-Stuarts medium
- D:-Amies medium

Correct Answer:- Option-B

Question80:-Which of the following tests come under IMViC tests ?

- A:-Coagulase test
- B:-Catalase test
- C:-Citrate utilisation test
- D:-None of above

Correct Answer:- Option-C

Question81:-The type of immunoglobulin which provides local immunity is

- A:-`I\_g` M
- B:-`I\_g` D
- C:-`I\_g` G
- D:-`I\_g` A

Correct Answer:- Option-D

Question82:-Confirmatory tests for AIDs is

- A:-Western blot
- B:-Southern blot
- C:-ELISA
- D:-CLIA

Correct Answer:- Option-A

Question83:-The bacteria which require 'X' and 'V' factors for its growth is

- A:-staphylococcus
- B:-haemophilus
- C:-brucella
- D:-salmonella

Correct Answer:- Option-B

Question84:-RPR and VDRL tests are done for the diagnosis of

- A:-AIDs
- B:-Hepatitis
- C:-Syphilis
- D:-Malaria

Correct Answer:- Option-C

Question85:-All the following are examples of blood parasites except

- A:-Plasmodium
- B:-Brugia malayi
- C:-Leishmania
- D:-Giardia lamblia

Correct Answer:- Option-D

Question86:-The fixative used for blood containing specimen is

- A:-Carnoy's fluid
- B:-95% ethyl alcohol
- C:-10% formalin

D:-Zenker's fluid

Correct Answer:- Option-A

Question87:-Staining technique for assessment of hormonal status is

A:-Pap stain

B:-Shorrs stain

C:-H & E stain

D:-JSB stain

Correct Answer:- Option-B

Question88:-The 'word' which refers to the 'closeness of a result on repeated analysis' is

A:-accuracy

B:-sensitivity

C:-precision

D:-specificity

Correct Answer:- Option-C

Question89:-'Mycology' means the study of

A:-bacteria

B:-immunity

C:-parasites

D:-fungus

Correct Answer:- Option-D

Question90:-Infections induced by a 'physician' is known as

A:-iatrogenic

B:-nosocomial

C:-congenital

D:-subclinical

Correct Answer:- Option-A

Question91:-The enzyme estimation done for the diagnosis of pancreatitis

A:-acid phosphatase

B:-amylase

C:-alkaline phosphatase

D:-creatinine kinase

Correct Answer:- Option-B

Question92:-The basic component of Leishman's stain is

A:-cosin

B:-malachite green

C:-methelene blue

D:-none of the above

Correct Answer:- Option-C

Question93:-Name the blood cells increased in asthma

A:-basophil

B:-neutrophil

C:-lymphocyte

D:-eosinophil

Correct Answer:- Option-D

Question94:-Intermediate host of plasmodium is

A:-man

B:-female anopheles mosquito

C:-male anopheles mosquito

D:-none of the above

Correct Answer:- Option-A

Question95:-Which of the following is a Romanowsky stain

A:-Leishmans stain

B:-Giemsas stain

C:-Jenners stain

D:-All the above

Correct Answer:- Option-D

Question96:-In wintrob's mixture, ammonium oxalate and potassium oxalate is mixed in the ratio

A:-2 : 3

B:-3 : 2

C:-1 : 4

D:-2 : 1

Correct Answer:- Option-B

Question97:-The anticoagulant used in OFT is

A:-EDTA

B:-Citrate

C:-Heparin

D:-Sodium fluoride-potassium oxalate mixture

Correct Answer:- Option-C

Question98:-The bacteria showing swarming growth is

A:-E.coli

B:-Salmonella

C:-Proteus

D:-All the above

Correct Answer:- Option-C

Question99:-To remove blood clots from blood pipette, it is immersed in

A:-KOH

B:-`NH\_4OH`

C:-INHCl

D:-3% acetic acid

Correct Answer:- Option-A

Question100:-Incomplete antibodies are detected using

A:-Electrophoresis

B:-Coombs test

C:-Agglutination test

D:-VDRL test

Correct Answer:- Option-B