

# PROVISIONAL ANSWER KEY

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Alphacode	A

Question1:-The first Malayalam film 'Balan' was produced from

- A:-Madras
- B:-Trivandrum
- C:-Selam
- D:-Bombay

Correct Answer:- Option-C

Question2:-In Kerala, Abolition of Jenmi system came in to effect in the year

- A:-1963
- B:-1970
- C:-1969
- D:-1957

Correct Answer:- Option-B

Question3:-The slogan "Travancore is for Trancoreans" is associated with

- A:-Malayali Memorial
- B:-Travancore Strike
- C:-Ezhava Memorial
- D:-Abstention Movement

Correct Answer:- Option-A

Question4:-The Kizharyur Bomb case was in the year

- A:-1923
- B:-1944
- C:-1942
- D:-1932

Correct Answer:- Option-C

Question5:-During the period of Second World War KPCC observed 'Anti Repression Day' on

- A:-Oct 15, 1941
- B:-Aug 15, 1940
- C:-Aug 15, 1941
- D:-Sep 15, 1940

Correct Answer:- Option-D

Question6:-The first grammar work in Malayalam language 'Leelathilakam' was prepared by

- A:-Arnos Patiri
- B:-Anjelos Francis
- C:-Hermen Gundert
- D:-Father Clement

Correct Answer:- Option-B

Question7:-Who initiated Socio-reform Movement through the Aruvippuram installation?

- A:-Sree Narayana Guru
- B:-Chattambi Swamikal
- C:-Vaghatananda
- D:-Thaicaud Aiyya

Correct Answer:- Option-A

Question8:-Who is considered as the 'father of Tenancy legislation in Malabar'?

- A:-Tipu Sulthan
- B:-Zamorin of Calicut
- C:-Lord Rippon
- D:-William Logan

Correct Answer:- Option-D

Question9:-Which among the following publication is not associated with Vakkom Moulavi?

- A:-Deepika

- B:-Kafir
  - C:-Al Islam
  - D:-Swadeshahimani
- Correct Answer:- Option-B

Question10:-The author of the poem 'Kudiyozhikkal'

- A:-Edassery Govindan Nair
- B:-Vailoppilli Sreedhara Menon
- C:-Takazhi
- D:-G. Sankara Kuruppu

Correct Answer:- Option-B

Question11:-Who said "My own feeling is that the congress is tottering to its fall, and one of my great ambitions, while in India is to assist it to its peaceful demise"?

- A:-M.A. Jinnah
- B:-Lord Curzon
- C:-A.O. Hume
- D:-Lord Mount Batten

Correct Answer:- Option-B

Question12:-The Separate Electorate under which only Muslim voters could vote for the seats reserved in the Councils for Muslims was introduced by

- A:-Govt. of India Act 1935
- B:-Council Act of 1861
- C:-Montague-Chelmsford Act 1919
- D:-Indian Council Act 1909

Correct Answer:- Option-D

Question13:-Mahathma Gandhi remarked that "It was a post dated cheque drawn on a crushing Bank", regarding

- A:-Cripps Mission
- B:-Wavell Plan
- C:-Simon Commission
- D:-Round Table Conference

Correct Answer:- Option-A

Question14:-Which one of the following non-members of Parliament has the right to address it?

- A:-Chief Justice of India
- B:-Solicitor General of India
- C:-Attorney General of India
- D:-Chief Election Commissioner

Correct Answer:- Option-C

Question15:-Which one of the following Articles of the Directive Principles of State Policy deals with the promotion of International Peace and Security?

- A:-50
- B:-48A
- C:-43A
- D:-51

Correct Answer:- Option-D

Question16:-Who among the following can be removed from the office without impeachment?

- A:-Governor of State
- B:-President of India
- C:-Chief Election Commissioner
- D:-Chief Justice of India

Correct Answer:- Option-A

Question17:-In which of the following States is the Hills Khasi located?

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

Correct Answer:- Option-C

Question18:-A deep valley cut by a river running through a mountainous region is known as

- A:-Dune
- B:-Delta
- C:-Canyon
- D:-Cape

Correct Answer:- Option-C

Question19:-The first Indian elected to the leadership of Communist International was

- A:-S.A. Dange
- B:-E.M.S.
- C:-P.C. Joshi
- D:-M.N. Roy

Correct Answer:- Option-D

Question20:-Which of the following state is the host for National Youth Day festival 2016?

- A:-Chhattisgarh
- B:-Kerala
- C:-Bihar
- D:-Karnataka

Correct Answer:- Option-A

Question21:-The role of silicon emulsion in rubber product manufacturing is as a

- A:-Froathing agent
- B:-Mould releasing agent
- C:-Dispersing agent
- D:-Plasticiser

Correct Answer:- Option-B

Question22:-Magnesium ammonium sulphate is otherwise known as

- A:-Slurry
- B:-Serum
- C:-Sludge
- D:-None of the above

Correct Answer:- Option-C

Question23:-Hardness is measured in

- A:-MPa
- B:-N/mm
- C:-Shore A
- D:-Poise

Correct Answer:- Option-C

Question24:-Tripsometer is an instrument used to determine

- A:-Abrasion resistance
- B:-Cure time
- C:-Rebound resilience
- D:-Compression set

Correct Answer:- Option-C

Question25:-Rubber hydrocarbon content of whole tyre reclaim

- A:-50%
- B:->50%
- C:-<50%
- D:-0%

Correct Answer:- Option-A

Question26:-EBC is a form of

- A:-Crumb rubber
- B:-Crepe rubber
- C:-Special purpose rubber
- D:-Block rubber

Correct Answer:- Option-B

Question27:-Which of the following property is best in mono-sulphidic vulcanisation systems?

- A:-Heat resistance
- B:-Fatigue resistance
- C:-Tensile strength
- D:-Modulus

Correct Answer:- Option-A

Question28:-Schwartz value is a quality assessment of

- A:-Latex foam
- B:-Balloons
- C:-Sponge

D:-Latex thread

Correct Answer:- Option-D

Question29:-Which among these is not considered as a quality control test for latex?

A:-VFA

B:-N<sub>2</sub> content

C:-Sludge content

D:-Ammonia content

Correct Answer:- Option-B

Question30:-The equipment used for preparing dispersion

A:-Ball mill

B:-Ultrasonic mill

C:-Attrition mill

D:-All the above

Correct Answer:- Option-D

Question31:-Identify the additive used as white pigment

A:-Titanium di oxide

B:-Clay

C:-Whiting

D:-Carbon black

Correct Answer:- Option-A

Question32:-Metrolac is an equipment used to determine the

A:-TSC

B:-DRC

C:-MST

D:-VFA

Correct Answer:- Option-B

Question33:-Which among these cannot be considered as a general purpose rubber?

A:-Styrene butadiene rubber

B:-Chloroprene rubber

C:-Butyl rubber

D:-Poly butadiene rubber

Correct Answer:- Option-A

Question34:-Potassium Oleate is added to the latex compound to

A:-improve the tackiness

B:-increase the viscosity of latex

C:-stabilize the latex

D:-cheapen the latex

Correct Answer:- Option-C

Question35:-Butyl rubber is cured with

A:-Sulphur

B:-Peroxides

C:-Metal oxides

D:-Dioximes

Correct Answer:- Option-D

Question36:-Which of the following is not a quality test for latex foam?

A:-Hardness

B:-Flexing resistance

C:-Compression set

D:-Tensile strength

Correct Answer:- Option-D

Question37:-High VFA value of a latex compound indicate its

A:-Poor state of preservation

B:-Good state of preservation

C:-High level of Ammonia

D:-Low level of Ammonia

Correct Answer:- Option-A

Question38:-The standard size of a mixing mill is

A:-7" × 15"

B:-8" × 24"

C:-6" × 12"

D:-None of these

Correct Answer:- Option-C

Question39:-Latex thread is manufactured by

A:-Dipping

B:-Extrusion

C:-Gelling

D:-Casting

Correct Answer:- Option-B

Question40:-Identify the synthetic rubber that shows low gas permeability

A:-NR

B:-SBR

C:-IIR

D:-CR

Correct Answer:- Option-C

Question41:-Gelling agent used in foams

A:-Sodium alginate

B:-Sodium bi carbonate

C:-Sodium carbonate

D:-Sodium silico fluoride

Correct Answer:- Option-D

Question42:-Which among these is not a coacervant?

A:-Ammonium nitrate

B:-Calcium chloride

C:-Calcium nitrate

D:-Acetic acid

Correct Answer:- Option-A

Question43:-For the vulcanisation of chloroprene rubber the curing agent used is

A:-Sulphur

B:-Per oxide

C:-Metal oxide

D:-Radiational vulcanization

Correct Answer:- Option-C

Question44:-Trans isomer of poly isoprene is

A:-Gutta purcha

B:-Isoprene

C:-Polybutadiene

D:-Buna-S

Correct Answer:- Option-A

Question45:-The process of reusing the scrap in to products after chemical treatment is termed as

A:-Recycling

B:-Reclaiming

C:-Reusing

D:-Relaxing

Correct Answer:- Option-B

Question46:-Necking or Pearling is a defect associated with

A:-Latex thread

B:-Latex foam

C:-Latex balloons

D:-All the above

Correct Answer:- Option-A

Question47:-The bleaching agent used in Pale latex crepe

A:-Sodium sulfite

B:-Xylyl mercapton

C:-Thiokol

D:-Carbondisulphide

Correct Answer:- Option-B

Question48:-Flat spotting of tyres usually occur in

A:-Steel chords

B:-Polyester chords

C:-Nylon chords

D:-Aramid chords

Correct Answer:- Option-C

Question49:-The unit of tensile strength is

A:-N/m

B:-Kg/cm

C:-MPa

D:-%

Correct Answer:- Option-C

Question50:-Which of the statement is not true about radial tyres?

A:-They have good cornering grip

B:-Good directional stability

C:-Low heat build up

D:-Low fuel consumption

Correct Answer:- Option-B

Question51:-The slope of the stress-strain graph gives the

A:-Modulus

B:-Tensile strength

C:-Elongation at break

D:-Tear strength

Correct Answer:- Option-A

Question52:-Monomers of butyl rubber are

A:-Isobutene, isoprene

B:-Isobutadiene, isoprene

C:-Isobutylene, isoprene

D:-Isobutylene, isobutadiene

Correct Answer:- Option-C

Question53:-Friction ratio refers to

A:-Difference in roller speed

B:-Spacing between rollers

C:-Ratio of length to diameter of the rollers

D:-Difference in roller size

Correct Answer:- Option-A

Question54:-Which is used as an anticoagulant?

A:-Ammonia

B:-Sodium sulfite

C:-Formalin

D:-All the above

Correct Answer:- Option-D

Question55:-PAN, PBN etc are used in rubber compounding as

A:-Anti oxidant

B:-Anti ozonant

C:-Both

D:-Filler

Correct Answer:- Option-A

Question56:-Which of the following property decreases with increase in crosslink density?

A:-Modulus

B:-Set

C:-Resilience

D:-Tensile strength

Correct Answer:- Option-B

Question57:-A cellular product with closed cell structure

A:-Sponge

B:-Foam

C:-Both

D:-Micro cellular sheet

Correct Answer:- Option-D

Question58:-EPNR stands for

- A:-Ethylene propylene natural rubber
  - B:-Ethylene propylene diene rubber
  - C:-Epoxidised natural rubber
  - D:-Enzyme proteinated natural rubber
- Correct Answer:- Option-C

Question59:-In radial tyres chords are at what angle to the axis of rotation?

- A:-60 degree
- B:-120 degree
- C:-30-40 degree
- D:-90 degree

Correct Answer:- Option-D

Question60:-The percentage of dirt in ISNR 5 is

- A:-0.05%
- B:-5%
- C:-0.5%
- D:-0.005%

Correct Answer:- Option-A

Question61:-Which of these refers to determine the stability of latex on stirring?

- A:-MST
- B:-VFA
- C:-KOH
- D:-Sludge

Correct Answer:- Option-A

Question62:-KOH is added to the latex compound as

- A:-Emulsions
- B:-Dispersion
- C:-Suspension
- D:-None of these

Correct Answer:- Option-D

Question63:-Which is considered as cool running?

- A:-Bias tyre
- B:-Radial tyre
- C:-Bias belted tyre
- D:-All the above

Correct Answer:- Option-B

Question64:-If the amount of sulphur is higher than that of the accelerator, the vulcanization system is a/an

- A:-Efficient
- B:-Semi efficient
- C:-Open
- D:-Conventional

Correct Answer:- Option-D

Question65:-DRC% of field latex is

- A:-30-40
- B:-40-50
- C:-50-60
- D:-20-30

Correct Answer:- Option-A

Question66:-Markham still apparatus is used to find

- A:-DRC
- B:-TSC
- C:-VFA
- D:-MST

Correct Answer:- Option-C

Question67:-The delayed action accelerator used is

- A:-MBT
- B:-DPG
- C:-CBS
- D:-TMTD

Correct Answer:- Option-C

Question68:-The test conducted to determine the level of proteins in latex is

- A:-Total solid content
- B:-Ammonia content
- C:-Coagulum content
- D:-Sludge content

Correct Answer:- Option-B

Question69:-Product that is manufactured by wrapped mandrel moulding is

- A:-Pipe
- B:-Cable
- C:-Belt
- D:-Hose

Correct Answer:- Option-D

Question70:-Which of the following is a continuous vulcanisation method?

- A:-Auto clave curing
- B:-Liquid curing
- C:-Steam curing
- D:-Batch curing

Correct Answer:- Option-B

Question71:-The synthetic rubber with low resilience is

- A:-NR
- B:-PBR
- C:-EPDM
- D:-IIR

Correct Answer:- Option-D

Question72:-FEF is a type of

- A:-Reinforcing filler
- B:-Accelerator
- C:-Activator
- D:-Flame retardant

Correct Answer:- Option-A

Question73:-Accelerator for chloroprene rubber is

- A:-MBTS
- B:-TMTD
- C:-Ethylene thiourea
- D:-Mercapton

Correct Answer:- Option-C

Question74:-Amount of inorganic content of a rubber is calculated from its

- A:-Nitrogen content
- B:-Ash content
- C:-Magnesium content
- D:-Coagulum content

Correct Answer:- Option-B

Question75:-An example of a copolymer is

- A:-Polybutadiene rubber
- B:-Chloroprene rubber
- C:-Nitrile rubber
- D:-Silicone rubber

Correct Answer:- Option-C

Question76:-The concentration method which works on stroke's formula is

- A:-Centrifuging
- B:-Electro decantation
- C:-Creaming
- D:-Evaporation

Correct Answer:- Option-C

Question77:-Which is not used as an anticoagulant?

- A:-Ammonia
- B:-Sodium sulphite
- C:-Boric acid
- D:-Acetic acid

Correct Answer:- Option-D

Question78:-The heating test done to detect halogens in a polymer is

- A:-Muller's test
- B:-Beilsetins test
- C:-Webber test
- D:-Miller's test

Correct Answer:- Option-B

Question79:-With increase of filler loading the heat build up of a rubber compound

- A:-Increases
- B:-Decreases
- C:-Increases and then decreases
- D:-Neither increases nor decreases

Correct Answer:- Option-A

Question80:-Balloons are prepared by dipping formers in

- A:-Unvulcanised latex
- B:-Vulcanised latex
- C:-Prevulcanised latex
- D:-Field latex

Correct Answer:- Option-C

Question81:-For the production of hawai sole, natural rubber should be blended with

- A:-Butyl rubber
- B:-Styrene butadiene rubber
- C:-Nitrile rubber
- D:-EPDM

Correct Answer:- Option-B

Question82:-High dosage of stearic acid is desirable in the compounding of which rubber product?

- A:-Ebonite
- B:-Sponge
- C:-Door mat
- D:-None of these

Correct Answer:- Option-B

Question83:-Cells in latex foam are

- A:-Partially opened and partially closed
- B:-Completely open
- C:-Closed
- D:-Devoid of cells

Correct Answer:- Option-A

Question84:-Renacit is a chemical name of a

- A:-Filler
- B:-Plasticiser
- C:-Anti oxidant
- D:-Peptiser

Correct Answer:- Option-D

Question85:-Masterbatch is a

- A:-Compounding ingredient
- B:-Partially compounded rubber mix
- C:-Compounded rubber mix
- D:-Compounding equipment

Correct Answer:- Option-B

Question86:-The accelerator used in latex compounding is

- A:-MBT
- B:-MBTS
- C:-ZDC
- D:-TMTD

Correct Answer:- Option-C

Question87:-Fill factor is associated with

- A:-Two roll mill
- B:-Extruder
- C:-Kneader

D:-Banburry machine

Correct Answer:- Option-D

Question88:-Hollow articles are made by

A:-Compression moulding

B:-Injection moulding

C:-Transfer moulding

D:-Blow moulding

Correct Answer:- Option-D

Question89:-The solvent for natural rubber is

A:-Cyclo hexane

B:-Chloroform

C:-Benzene

D:-Acetone

Correct Answer:- Option-D

Question90:-The dimension of the extruded product as it comes out of the die will be

A:-Larger than the die diameter

B:-Smaller than the die diameter

C:-Same as the die

D:-Cannot be predicted

Correct Answer:- Option-A

Question91:-Pot is used in

A:-Injection moulding

B:-Transfer moulding

C:-Compression moulding

D:-Blow moulding

Correct Answer:- Option-B

Question92:-Friction ratio of a mixing mill

A:-1 : 2.5

B:-1 : 1.5

C:-1 : 1.25

D:-1 : 0.25

Correct Answer:- Option-C

Question93:-De Lavel machine is used in

A:-Evaporation

B:-Creaming

C:-Electro decantation

D:-Centrifuging

Correct Answer:- Option-D

Question94:-The grade of ISNR used in tyre industry

A:-ISNR 5

B:-ISNR 10

C:-ISNR 20

D:-ISNR 50

Correct Answer:- Option-C

Question95:-Upside down mixing is recommended for

A:-CR

B:-EPDM

C:-SBR

D:-Silicone rubber

Correct Answer:- Option-B

Question96:-The inorganic rubber among the following is

A:-Nitrile rubber

B:-Chloroprene rubber

C:-Butyl rubber

D:-Silicone rubber

Correct Answer:- Option-D

Question97:-The percentage of ammonia in HA latex is

A:-0.6%

B:-0.9%

C:-0.3%

D:-0.4%

Correct Answer:- Option-A

Question98:-Crack growth is minimum for

A:-SBR

B:-CR

C:-NR

D:-NBR

Correct Answer:- Option-C

Question99:-CV rubber refers to

A:-Chemically viscous rubber

B:-Clear viscosity rubber

C:-Continuous vulcanized rubber

D:-Constant viscosity rubber

Correct Answer:- Option-D

Question100:-Antimony oxide is an additive which imparts

A:-Heat resistance

B:-Flame resistance

C:-Conductivity

D:-Weather resistance

Correct Answer:- Option-B