

# FINAL ANSWER KEY

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Question1:-The Chief Minister who inaugurated the Hindon Elevated Road, the longest elevated road of India was

- A:-Pinarayi Vijayan
- B:-Mamtha Banerji
- C:-Yogi Adityanath
- D:-Aravind Kejriwal

Correct Answer:- Option-C

Question2:-Write the abbreviated form of SAI.

- A:-Sports Affairs of India
- B:-Sports Authority of India
- C:-Sports Advisory of India
- D:-Sports Affinity of India

Correct Answer:- Option-B

Question3:-Which of the following mountain ranges form a dividing line between the Ganges Plain and the Deccan Plateau ?

- A:-Aravalli
- B:-Satpura
- C:-Western Ghats
- D:-Vindhyas

Correct Answer:- Option-B

Question4:-The Paithan (Jayakwadi) Hydro-electric project, completed with the help of Japan, is on the river

- A:-Godavari
- B:-Ganga
- C:-Cauvery
- D:-Narmada

Correct Answer:- Option-A

Question5:-How many agreements are signed between India and Uganda ?

- A:-7
- B:-6
- C:-5
- D:-4

Correct Answer:- Option-D

Question6:-Who is known as the father of Kerala Renaissance ?

- A:-Chattampi Swamikal
- B:-Sree Narayana Guru
- C:-Sivananda Yogi
- D:-Kumaran Asan

Correct Answer:- Option-B

Question7:-Who introduced PIDIYARI SYSTEM in Kerala ?

- A:-Kuriakose Elias Chavara
- B:-Sister Alphonsa
- C:-Mother Therasa
- D:-St. Thomas

Correct Answer:- Option-A

Question8:-Which Indian personality has won the 2018 International Contributions Award given by the Association for Educational Communications and Technology (AECT), USA ?

- A:-K Anvar Sadath
- B:-Kapil Bansal
- C:-Harish Bhatt
- D:-P S Mohan

Correct Answer:- Option-A

Question9:-Which of the following is the official mascot for the 2020 Tokyo Paralympic Games ?

- A:-Keito
- B:-Someit
- C:-Zabivaka
- D:-Miraitowa

Correct Answer:- Option-B

Question10:-Which social reformer of Kerala is credited with linking caste and religious reformation with that of nationalist movement ?

- A:-Ayyankali
- B:-Pandit Karuppan
- C:-Vagbhatananda
- D:-Vakkom Maulavi

Correct Answer:- Option-C

Question11:-Which movie has been chosen for the best film award "Palme d'Or" at the 2018 Cannes Film Festival ?

- A:-Anone
- B:-Warotenka
- C:-Half Blue
- D:-Shoplifters

Correct Answer:- Option-D

Question12:-Which is the largest river basin in India ?

- A:-Godavari
- B:-Krishna
- C:-Ganga
- D:-Indus

Correct Answer:- Option-C

Question13:-Which is the highest mountain peak in India ?

- A:-Nanda Devi
- B:-Kamet
- C:-Trisul
- D:-Kangchenjunga

Correct Answer:- Option-D

Question14:-First Malayalam dictionary was compiled by

- A:-Mahakavi Vallathol Narayana Menon
- B:-Sreekandeswaram Padmanabha Pillai
- C:-Herman Gundert
- D:-Mahakavi Ullor

Correct Answer:- Option-C

Question15:-Who undertook a studentship in poetry under Manamboor Govindan Asan ?

- A:-Sree Narayana Guru
- B:-Chattampi Swamikal
- C:-Thycaud Ayya
- D:-Kumaranasan

Correct Answer:- Option-D

Question16:-The First Chief Justice of Kerala High Court

- A:-M S Menon
- B:-P Govindan Nair
- C:-K T Koshy
- D:-K Sankaran

Correct Answer:- Option-C

Question17:-The Jallian Wala Bhagh Massacre took place in the year

- A:-1919
- B:-1819
- C:-1918
- D:-1719

Correct Answer:- Option-A

Question18:-Who among the following was the first non-congress Chief Minister of India ?

- A:-Shanker Dayal Sharma
- B:-E M S Namboothiripad
- C:-N G Ranga

D:-Indulal Yagnik

Correct Answer:- Option-B

Question19:-The Maharaja of Travancore who invited Thycaud Ayya to his palace and became his disciple

A:-Swati Tirunal

B:-Chithira Thirunal

C:-Marthanda Varma

D:-Dharma Raja

Correct Answer:- Option-A

Question20:-Which of the following Monsoons account for most of the rainfall in India ?

A:-North East Monsoon

B:-South East Monsoon

C:-East Asia Monsoon

D:-South West Monsoon

Correct Answer:- Option-D

Question21:-Mullenburg prosthetics consists of

A:-Socket, pylon and foot

B:-Socket and foot

C:-Simple insole to which toe fillers on spacers formed from foam are bonded

D:-Simple insole and molded plastic for toe fillers

Correct Answer:- Option-C

Question22:-Collins partial-foot prosthesis is designed to resist

A:-Dorsiflexion

B:-Plantar flexion

C:-Eversion

D:-Inversion

Correct Answer:- Option-A

Question23:-The PTB supracondylar, suprapatellar (PTB-SCSP) socket does not provide

A:-Increased mediolateral stability

B:-Increased anteroposterior stability

C:-Increased functional kneeling

D:-Increased area of pressure distribution

Correct Answer:- Option-C

Question24:-Which one is the advantage of sleeve suspension ?

A:-Provides added knee stability

B:-Suspension is greatly decreased if the sleeve is punctured

C:-Perspiration may build up under the sleeve and create skin irritation or hygiene problems

D:-Helps minimize socket pistoning

Correct Answer:- Option-D

Question25:-Jaipur foot is based on which of the following design ?

A:-Single axis

B:-SACH

C:-Flexible keel dynamic response

D:-Multi axis

Correct Answer:- Option-B

Question26:-The possible cause of knee remain extension in loading response is

A:-Foot too anterior

B:-Foot too posterior

C:-Heel too soft

D:-Heel too high

Correct Answer:- Option-A

Question27:-IRC socket design provides

A:-Better function

B:-Better Alignment

C:-Better Proprioception

D:-Better Suspension

Correct Answer:- Option-A

Question28:-The pelvic band and hip joint suspension is used for

A:-Short stump

B:-Long stump

C:-Medium stump  
D:-Very short stump  
Correct Answer:- Option-D

Question29:-Which of the following may be described as one of the cause of abducted gait ?

A:-Weak hip abductors  
B:-Abducted socket  
C:-Prosthesis too long  
D:-Insufficient support by the lateral socket wall  
Correct Answer:- Option-C

Question30:-Which of the following factor is not evaluated during socket trial ?

A:-Suspension  
B:-Alignment  
C:-Distribution of weight bearing pressure and biomechanical forces  
D:-Freedom of ROM of proximal joint  
Correct Answer:- Option-B

Question31:-In very light weight transfemoral prosthesis CG shifted to

A:-Upward and towards sound side  
B:-Upward and towards prosthetic side  
C:-Downward and towards sound side  
D:-Downward and towards prosthetic side  
Correct Answer:- Option-A

Question32:-Socket flexion angle in alignment is provided for

A:-Better control of flexors  
B:-Better control of extensors  
C:-Better weight bearing  
D:-Better suspension  
Correct Answer:- Option-B

Question33:-The role of calf suspension in stance phase is to

A:-Control Flexion  
B:-Control Extension  
C:-Control Hyperextension  
D:-Control Rotation  
Correct Answer:- Option-C

Question34:-The ICOR of four bar knee in flexion locates

A:-Superior and Posterior  
B:-Superior and Anterior  
C:-Inferior and Posterior  
D:-Inferior and Anterior  
Correct Answer:- Option-D

Question35:-The involuntary stability of knee joint is achieved by

A:-Shifting mechanical axis of knee anterior to TKA  
B:-Shifting mechanical axis of knee posterior to TKA  
C:-shifting mechanical axis of knee medial to MKA  
D:-Shifting mechanical axis of knee lateral to MKA  
Correct Answer:- Option-B

Question36:-The forearm is set in initial flexion in which type of socket ?

A:-Northwestern socket  
B:-AHL socket  
C:-Muenster socket  
D:-Floating brim socket  
Correct Answer:- Option-C

Question37:-In northwestern supracondylar socket is characterized by

A:-Narrow M-L  
B:-Narrow A-P  
C:-Narrow in A-P and wider M-L direction  
D:-Wider A-P and Wider M-L  
Correct Answer:- Option-A

Question38:-Indication of suprastylod suspension socket is

A:-Long transradial stump

- B:-Wrist disarticulation with prominent styloid
  - C:-Midcarpal amputation
  - D:-Metacarpophalangeal disarticulation
- Correct Answer:- Option-B

Question39:-Main feature of Three-quarter type below elbow socket

- A:-Indicated for short transradial amputation
- B:-Set in initial flexion
- C:-Narrow M-L
- D:-Has a Olecrenon cut off

Correct Answer:- Option-D

Question40:-Screw in socket is indicated in

- A:-Wrist disarticulation
- B:-Long transradial amputation
- C:-Elbow disarticulation
- D:-Shoulder disarticulation

Correct Answer:- Option-C

Question41:-Main principles of CRS socket

- A:-Longitudinal depressions added in the socket walls
- B:-Open release areas are created between the depressions that receive the displaced tissue
- C:-Requires selective pressure
- D:-All of the above

Correct Answer:- Option-D

Question42:-Which type of following socket is not a shoulder disarticulation socket ?

- A:-AHI socket
- B:-Infraclavicular socket
- C:-X-frame socket
- D:-Perimeter frame type socket

Correct Answer:- Option-A

Question43:-Acronym of ACCI is

- A:-Anatomically Contoured and Comfort Interface
- B:-Anatomically Contoured and Controlled Interface
- C:-Angulation Contoured and Controlled Interface
- D:-None of the above

Correct Answer:- Option-B

Question44:-Spilt socket is indicated for

- A:-Amputations immediately distal to the elbow joint
- B:-Inadequate strength of elbow flexors
- C:-Inability to tolerate the high unit pressure on the volar surface of the forearm
- D:-All of the above

Correct Answer:- Option-A

Question45:-TRAC interface incorporates design elements from

- A:-Split socket and three quarter type socket
- B:-Split socket and supracondylar socket
- C:-Muenster socket and northwestern socket
- D:-Muenster and suprastyloid socket

Correct Answer:- Option-C

Question46:-Carlyle index is

- A:-Ratio of total height to stump length
- B:-Ratio of total height to normal side length of corresponding stump length
- C:-Ratio of stump length to total height
- D:-Ratio of stump length to normal side length of corresponding stump length

Correct Answer:- Option-C

Question47:-Flexible hinges is indicated for

- A:-Amputation through the proximal third of the forearm
- B:-Amputation through the distal third of the forearm
- C:-Amputation through the middle third of the forearm
- D:-Amputation through mid of the forearm

Correct Answer:- Option-C

Question48:-Operating lever thumb is present in ulnar side is present in which terminal device ?

A:-Dorrance hook

B:-Sierra hook

C:-APRL hook

D:-Ottobock hook

Correct Answer:- Option-C

Question49:-Step up hinges amplify the excursion of anatomic elbow joint by a ratio of

A:-3 : 2

B:-3 : 1

C:-1 : 1

D:-2 : 1

Correct Answer:- Option-D

Question50:-Campbell index is

A:-Ratio of humeral length to stump antero-posterior diameter

B:-Ratio of radius length to stump antero-posterior diameter

C:-Ratio of femur length to stump end circumference

D:-Ratio of tibial length to stump end circumference

Correct Answer:- Option-A

Question51:-Function of "Inverted Y strap" is to

A:-Resist displacement of the socket on the residual limb when the prosthesis is subjected to heavy loading

B:-Permit the use of scapular abduction and shoulder flexion on the amputated side for operation of the terminal device

C:-Prevent to lateral rotation of prosthetic socket during prosthetic function

D:-None of the above

Correct Answer:- Option-B

Question52:-Rotational wrist unit is prescribed mostly in

A:-Bilateral upper-limb amputee who must perform all daily functions with prostheses

B:-Bilateral upper limb amputees who needed to change different types of terminal devices

C:-Amputees who engage in work or avocational activities that exert high rotational loads on the terminal device

D:-Unilateral amputees who need to change terminal device for vocational activities

Correct Answer:- Option-C

Question53:-How many wrist flexions are available in Sierra Wrist Flexion Unit ?

A:-Two

B:-Three

C:-Four

D:-Five

Correct Answer:- Option-B

Question54:-Outside locking hinges are indicated in

A:-Short transradial levels of amputation

B:-Amputations immediately distal to the elbow joint

C:-Elbow disarticulation and transcondylar levels of amputation

D:-Amputees with very high transradial levels of amputation

Correct Answer:- Option-C

Question55:-Which Body motion is required to control a terminal device of upper limb prosthesis ?

A:-Biscapular adduction

B:-Glenohumeral extension

C:-Glenohumeral elevation

D:-Glenohumeral flexion

Correct Answer:- Option-D

Question56:-In standard harness system for transhumeral prosthesis what motion is required for elbow locking and unlocking ?

A:-Slight extension and abduction of the glenohumeral joint combined with equally slight shoulder depression on the amputated side

B:-Slight flexion and adduction of the glenohumeral joint combined with equally slight shoulder depression on the amputated side

C:-Slight extension and abduction of the glenohumeral joint combined with equally slight shoulder elevation on the non-amputated side

D:-slight flexion and abduction of the glenohumeral joint combined with equally slight shoulder depression on the non-amputated side

Correct Answer:- Option-A

Question57:-What is primary control motion for cycling the elbow unit in shoulder disarticulation prosthesis by chest strap harness system ?

- A:-Glenohumeral flexion
- B:-Biscapular abduction
- C:-Scapular adduction on the amputated side
- D:-Scapular abduction on the amputated side

Correct Answer:- Option-C

Question58:-Bowden control cable system is used with

- A:-Transradial prosthesis
- B:-Elbow disarticulation prosthesis
- C:-Transhumeral prosthesis
- D:-Shoulder disarticulation prosthesis

Correct Answer:- Option-A

Question59:-What is the function of muscle signal in myoelectric control prosthesis ?

- A:-Provide power to the motor
- B:-Controlling the prosthesis
- C:-Controlling the voltage and current of motor
- D:-All of the above

Correct Answer:- Option-B

Question60:-Which is not a component of Targeted Muscle Re-innervation ?

- A:-A spare muscle (the target muscle) of an amputated patient is denervated and then reinnervated with residual nerves of the amputated limb
- B:-The resultant EMG signals of the targeted muscle represent the motor commands to the missing limb
- C:-EMG signal used to drive the motor
- D:-EMG signal used to control a motorized prosthetic device

Correct Answer:- Option-D

Question61:-Knee drop lock joint is most suitable to control

- A:-Medial lateral instability
- B:-Anterior posterior instability
- C:-Weakness of Hamstrings
- D:-Weakness of Quadriceps

Correct Answer:- Option-D

Question62:-Charcot rehabilitation orthotic walker fabrication required in

- A:-CP
- B:-Polio
- C:-Diabetics
- D:-Rheumatoid

Correct Answer:- Option-C

Question63:-Placement of orthotic ankle joint in sagittal plane is at

- A:-Distal tip of the medial malleolus
- B:-Distal tip of the lateral malleolus
- C:-Mid of the medial malleolus
- D:-1/3 distal to the medial malleolus

Correct Answer:- Option-A

Question64:-Which option is not suitable for management of flaccid equinus ?

- A:-Spring Wire AFO for Dorsiflexion Assist
- B:-Klenzak AFO for Dorsiflexion Assist
- C:-Functional Electrical Stimulation for Dorsiflexion Assist
- D:-Free motion ankle joint for Dorsiflexion Assist

Correct Answer:- Option-D

Question65:-The patient with plantarflexors weakness can be prescribed with following type of orthosis

- A:-Foot drop stop
- B:-Reverse foot drop stop
- C:-Inside T bar
- D:-Outside T bar

Correct Answer:- Option-B

Question66:-The patient with pes plano valgus deformity may be provided with

- A:-Inside T strap with outside T strap
- B:-Inside bar with outside T strap

C:-Inside T strap with outside bar

D:-Inside bar with outside bar

Correct Answer:- Option-C

Question67:-Which orthosis is least effective shoe for metatarsus adductus ?

A:-Corrective shoes

B:-Tarsal pronator shoes

C:-Bebax shoe

D:-Straight last shoe

Correct Answer:- Option-D

Question68:-For calcaneal spur, what kind of shoe should be provided ?

A:-High quarter shoe

B:-Metatarsal pad or bars

C:-Heel cushion with microcellular rubber sole

D:-High heels

Correct Answer:- Option-C

Question69:-What type of shoe modification is required in pes varus ?

A:-Thomas heel

B:-Lateral wedge

C:-Heel cushion

D:-MT bar

Correct Answer:- Option-B

Question70:-The bending of spreader bar in DB splint is to control

A:-Equinus

B:-Rotation

C:-Varus

D:-Cavus

Correct Answer:- Option-C

Question71:-Which of the following shoe modification is not effective in Flat feet ?

A:-Lateral heel wedge

B:-Medial heel wedge

C:-Arch support

D:-Thomas heel

Correct Answer:- Option-A

Question72:-Purpose of double rocker sole is

A:-To eliminate weight-bearing forces on the forefoot

B:-To reduce pressure under the metatarsal heads

C:-To unload the midfoot area

D:-To relieve forefoot pressure by shifting the weight-bearing forces to the hindfoot and midfoot

Correct Answer:- Option-D

Question73:-Which of the following modification don't influence in tone reducing AFO ?

A:-Posterior heel pad

B:-Metatarsal pad

C:-Toe hyperextension pad

D:-Toe separator pad

Correct Answer:- Option-A

Question74:-To correct genu recurvatum what kind of strap is given at the knee ?

A:-Loose anterior strap

B:-Tight posterior strap

C:-Tight anterior strap

D:-Loose posterior strap

Correct Answer:- Option-B

Question75:-Anterior cruciate ligament can be best treated by

A:-Lenox Hill Derotation knee brace

B:-Rehabilitation knee orthoses

C:-Swedish knee cage

D:-Knee sleeves

Correct Answer:- Option-A

Question76:-Which is not indication of KAFO in paraplegia ?

A:-Quadriceps strength less than "Fair+" on manual muscle testing



- B:-Impaired or absent knee proprioception
  - C:-Severe hyperextension thrust during stance
  - D:-Moderate to severe plantarflexion spasticity
- Correct Answer:- Option-D

Question77:-Which is of the following type of Orthosis is suitable in unilateral LCPD ?

- A:-Toronto Orthosis
- B:-Newington Orthosis
- C:-Scottish Rite Orthosis
- D:-Hip Abduction Orthosis

Correct Answer:- Option-D

Question78:-The measurement for the Silesian bandage in weight relieving orthotics is taken from

- A:-The greater trochanter, over the opposite iliac crest, to the midline anteriorly
- B:-The scrapes Triangle, over the opposite iliac crest, to the midline anteriorly
- C:-The greater trochanter, over the same side iliac crest, to the midline posteriorly
- D:-The scrapes Triangle, over the same side iliac crest, to the midline posteriorly

Correct Answer:- Option-A

Question79:-Craig splint is used in

- A:-CTEV
- B:-CDH
- C:-DDH
- D:-Perthe's Disease

Correct Answer:- Option-D

Question80:-Phocomelia is

- A:-Defects in long bones
- B:-Complete absence of long bones
- C:-Partial absence of long bones
- D:-Complete absence extremity

Correct Answer:- Option-A

Question81:-UMN disorders found in

- A:-PPRP
- B:-Muscular Dystrophy
- C:-Paraplegia at the level of L2
- D:-CP

Correct Answer:- Option-D

Question82:-Chairback lumbo sacral orthosis may be provided to control

- A:-Coronal plane motion
- B:-Sagittal plane motion
- C:-Transverse plane motion
- D:-All the above

Correct Answer:- Option-B

Question83:-Which spinal segment has the greatest range of motion ?

- A:-Cervical
- B:-Thoracic
- C:-Lumbar
- D:-Sacral

Correct Answer:- Option-A

Question84:-What type of cervical brace used to control 40 to 50% of flexion-extension ?

- A:-Soft collar
- B:-Halo Cervical Orthosis
- C:-SOMI
- D:-Philadelphia collar

Correct Answer:- Option-D

Question85:-Which motion does Williams Lumbosacral orthosis control ?

- A:-Flexion
- B:-Extension
- C:-Rotation
- D:-Restricts all motion

Correct Answer:- Option-B

Question86:-Which of the following Thoracic lumbo-sacral orthoses control flexion ?

- A:-Taylor
- B:-Knight Taylor
- C:-Jewett
- D:-Cow horn

Correct Answer:- Option-C

Question87:-Which lumbar segment is the most mobile ?

- A:-L4-L5
- B:-L2-L3
- C:-L3-L4
- D:-L1-L2

Correct Answer:- Option-A

Question88:-Which of the following cervical orthosis does not limit rotation ?

- A:-Halo vest
- B:-Minerva brace
- C:-Aspen collar
- D:-Sterno-Occipital-Mandibular Immobilizer (SOMI)

Correct Answer:- Option-C

Question89:-A patient has a stable C4 fracture. Which cervical orthosis would be appropriate ?

- A:-Soft collar
- B:-Philadelphia collar
- C:-Halovest
- D:-Minerva

Correct Answer:- Option-B

Question90:-Which of these back braces is primarily used for stable vertebral anterior compression fractures ?

- A:-Williams brace
- B:-Chairback brace
- C:-Taylor brace
- D:-Knight brace

Correct Answer:- Option-C

Question91:-The most common deformity seen in patient with a osteoporotic spine is

- A:-Scoliosis
- B:-Kyphosis
- C:-Lordosis
- D:-ScolioKyphosis

Correct Answer:- Option-B

Question92:-Complications associated with use of Halo Apparatus

- A:-Abscess of brain
- B:-Vascular compression of duodenum
- C:-Dysphagia
- D:-All of the above

Correct Answer:- Option-D

Question93:-Which is not Prognostic tool for curve progression ?

- A:-Peak growth age
- B:-Degree of maturity
- C:-Peak height velocity
- D:-Chronological age

Correct Answer:- Option-B

Question94:-Reliable indicators for differentiating resolving from progressive scoliosis :

- A:-Rib Vertebral Angle Difference (RVAD)
- B:-Cobb angle
- C:-Risser sign
- D:-Menarchal status

Correct Answer:- Option-A

Question95:-The proximal rows of carpal bones are

- A:-Trapezium, trapezoid, capitate and hamate
- B:-Scaphoid, lunate, triquetrum and pisiform
- C:-Scaphoid, lunate, trapezium, trapezoid
- D:-Scaphoid, lunate, capitate and hamate

Correct Answer:- Option-B

Question96:-The primary indication for Thumb CMC palmar abduction mobilization splint is to

- A:-Prevent flexion contracture
- B:-Assist Extension
- C:-Prevent web space contracture
- D:-Maintain Abduction

Correct Answer:- Option-C

Question97:-The splint used in Deupuytren Contracture

- A:-Short opponens splint
- B:-Long opponens splint
- C:-MCP, PIP Flexion
- D:-MCP, PIP Extension

Correct Answer:- Option-D

Question98:-Trigger finger occurs in

- A:-Trauma
- B:-Rheumatoid Arthritis
- C:-Paralysis
- D:-Osteoarthritis

Correct Answer:- Option-B

Question99:-Orthotic treatment of Tennis Elbow is

- A:-Elbow cage
- B:-Elbow strap to relax muscles over medial epicondyle
- C:-Elbow strap to relax muscles over lateral epicondyles
- D:-Elbow strap to relax muscles over olecranon process

Correct Answer:- Option-C

Question100:-Which of the following motion get restricted in injury of supraspinatus ?

- A:-Abduction
- B:-Flexion
- C:-Extension
- D:-Adduction

Correct Answer:- Option-A