

PROVISIONAL ANSWER KEY

Question 47/2025/OL

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Department Health Services

Question1:-Which of the following is an example of circumpennate muscle ?

A:-Flexor Pollicis Longus

B:-Peroneus Tertius

C:-Tibialis Anterior

D:-Rectus Femoris

Correct Answer:- Option-C

Question2:-Which of the following is an example of aberrant epiphysis ?

A:-Tubercles of humerus

B:-Head of 1st metacarpal

C:-Coracoid process of scapula

D:-Base of 1st metacarpal

Correct Answer:- Option-B

Question3:-Muscles cancelling undesired movements produced by prime movers are called as

A:-Antagonists

B:-Fixators

C:-Agonists

D:-Synergists

Correct Answer:- Option-D

Question4:-

Which of the following statement/s is/are true regarding body lever systems ?

(i) First class lever possesses the fulcrum lying between effort and resistance.

(ii) Rising on the toes is an example of a first class lever.

(iii) In second class lever, resistance intervenes between fulcrum and effort.

(iv) Triceps brachii is an example of third class lever.

A:-Only (i), (ii) and (iii)

B:-Only (i),(iii) and (iv)

C:-Only (i) and(iii)

D:-Only (iii) and (iv)

Correct Answer:- Option-C

Question5:-Which of the following statement/s is/are true regarding metaphysis ?

- (i) It is the most actively growing area of a long bone.
- (ii) It has less blood supply.
- (iii) Muscles, ligaments and joint-capsules are attached close to the metaphysis.
- (iv) Infection of a long bone affects primarily the metaphysis.

A:-All of the above (i), (ii), (iii) and (iv)

B:-Only (i), (iii) and (iv)

C:-Only (ii), (iii) and (iv)

D:-Only (iii) and (iv)

Correct Answer:- Option-B

Question6:-Which of the following statement/s is/are true regarding red muscle fibres ?

- (i) The fibres contract rapidly.
- (ii) The fibres are abundant in myohaemoglobin.
- (iii) Red muscle fibres contain less amount of mitochondria.
- (iv) The fibres are found in deep muscles.

A:-Only (ii) and (iv)

B:-Only (i) and (ii)

C:-Only (i) and (iii)

D:-Only (iii) and (iv)

Correct Answer:- Option-A

Question7:-Lambdoid sutural joint is an example of

A:-Serrate suture

B:-Plane suture

C:-Squamous suture

D:-Denticulate suture

Correct Answer:- Option-D

Question8:-Most important muscles of inspiration is

A:-Diaphragm

B:-External intercostal

C:-Internal intercostal

D:-Sternocleido mastoid

Correct Answer:- Option-A

Question9:-All are causes of positive Babinski sign except

A:-Infants

B:-Deep sleep

C:-Stimulation of pyramidal tract

D:-Dorsiflexion of big toe

Correct Answer:- Option-C

Question10:-The area in brain primarily concerned with co-ordination of movements

A:-Cerebellum

B:-Basal ganglia

C:-Thalamus

D:-Motor area

Correct Answer:- Option-A

Question11:-Preload of heart is determined by

A:-Enddiastolic volume

B:-Endsystolic volume

C:-Ejection systolic volume

D:-Stroke volume

Correct Answer:- Option-A

Question12:-Which is the first important event in hemostasis following tissue injury ?

A:-Coagulation

B:-Formation of hemostatic plug

C:-Vascular spasm

D:-Formation of thromboplastin

Correct Answer:- Option-C

Question13:-Maximum reabsorption of water and electrolyte in the gastrointestinal tract occurs in

A:-Stomach

B:-Jejunum

C:-Ileum

D:-Colon

Correct Answer:- Option-B

Question14:-Goals of Environmental Modification for a child with disability is

A:-Enhancing child's participation

B:-Increasing safety

C:-Improving comfort

D:-All of the above

Correct Answer:- Option-D

Question15:-Double support time occurs during which of the following phase of gait cycle

A:-Initial contact

B:-Loading response

C:-Pre swing

D:-All of the above

Correct Answer:- Option-D

Question16:-Which of the following statement about determinants of gait is correct ?

- (i) Hip rotation in horizontal plane
- (ii) Early knee flexion
- (iii) Late knee flexion

A:-(i) and (ii)

B:-(i) and(iii)

C:-(ii) and (iii)

D:-None of the above

Correct Answer:- Option-C

Question17:-Which of the following is false regarding benefits of CBR to community ?

A:-Basic awareness of diversity within the community

B:-Foster more positive attitude towards people with disability

C:-Focuses on bringing advanced level technology and newer materials to rural areas

D:-Focus is on use of local resources and train local people

Correct Answer:- Option-C

Question18:-What marks the transition from walking to running ?

A:-The disappearance of double support time

B:-Cadence of 40 steps/min

C:-Reducing step length

D:-All of the above

Correct Answer:- Option-A

Question19:-Which of the following is true about Parinayam initiative ?

A:-Initiative for health insurance coverage for PwD

B:-Marriage assistance for physically handicapped girls and daughters of physically handicapped parents

C:-Novel initiative by health department

D:-One time assistance of Rupees 1 lakh is provided for beneficiaries

Correct Answer:- Option-B

Question20:-An appeal against the order of removal from register of RCI (Rehabilitation Council of India) has to be given within how many days of date of order ?

A:-30 days

B:-75 days

C:-60 days

D:-90 days

Correct Answer:- Option-C

Question21:-Percentage of disability which can be given for a through knee amputation as per Disability Guideline 2025 of RPwD Act is

A:-60%

B:-75%

C:-50%

D:-40%

Correct Answer:- Option-B

Question22:-Under Niramaya Health Insurance Scheme for PwD under National Trust Act 1999 beneficiaries can avail an insurance coverage upto

A:-2 lakhs

B:-1 lakh

C:-50 thousand

D:-3 lakhs

Correct Answer:- Option-B

Question23:-Which of the following helps in determining the appropriateness of Prosthetic and Orthotic Technology ?

A:-Comfortable

B:-Functional

C:-Easy to don and doff

D:-All of the above

Correct Answer:- Option-D

Question24:-What are the advantages of 3D printing of Prosthesis and Orthosis ?

(i) Cleaner Technology

(ii) It is a solution for everyone, everywhere

(iii) Can be used to fabricate custom devices

A:-(i) and (ii)

B:-(i) and (iii)

C:-All of the above

D:-None of the above

Correct Answer:- Option-B

Question25:-All of the following are true with regard to Central Rehabilitation Register except

A:-All Registered Rehabilitation Professionals should renew registration once in 5 years

B:-Total number of 150 CRE points are required for renewal of registration

C:-Rehabilitation Social Workers can register

D:-Registered persons can practice as Rehabilitation Professional anywhere in India

Correct Answer:- Option-B

Question26:-Which of the following disease is not specified under locomotor disability in RPwD Act 2016 ?

A:-Leprosy cured persons

B:-Cerebral palsy

C:-Multiple sclerosis

D:-Muscular dystrophy

Correct Answer:- Option-C

Question27:-The National Trust Act received assent of president in the year

A:-1989

B:-1999

C:-2009

D:-1990

Correct Answer:- Option-B

Question28:-The following acts of commission or omission shall be considered abuse or neglect on the part of guardian under the National Trust Act

A:-Solitary confinement of a person with disability

B:-Misappropriation of property of a person with disability

C:-Sexual abuse

D:-All of the above

Correct Answer:- Option-D

Question29:-Which of the following are the challenges faced in developing Prosthetic and Orthotic Services ?

(i) Lack of awareness about role, purpose and benefits of Prosthetic and Orthotic Services

(ii) Limited availability of appropriate products

(iii) Lack of qualified personnel

A:-(i) and (ii)

B:-(i) and (iii)

C:-All of the above (i), (ii) and (iii)

D:-(ii)and (iii)

Correct Answer:- Option-C

Question30:-Which of the following clinical test is not associated with SLAP lesion ?

A:-O'briens active compression test

B:-Speed test

C:-Anterior slide test

D:-Berber test

Correct Answer:- Option-C

Question31:-Which pulley is released in surgery for trigger thumb ?

A:-A1

B:-C1

C:-A2

D:-C2

Correct Answer:- Option-A

Question32:-Ackerman histologia zones is associated with

A:-Osteosarcoma

B:-Traumatic myositis ossificans

C:-Fibrous dysplasia

D:-Paget's disease

Correct Answer:- Option-B

Question33:-Pellagrini-Stieda's disease is associated with injury to

A:-Lateral collateral ligament

B:-Medial collateral ligament

C:-Anterior cruciate ligament

D:-Meniscal injury

Correct Answer:- Option-B

Question34:-Most common nerve injury associated with extensor type of supracondylar humerus fracture in children

A:-Musculocutaneous nerve

B:-Radial nerve

C:-Ulnar nerve

D:-Anterior interosseous nerve

Correct Answer:- Option-D

Question35:-Which of the following statement is incorrect regarding Ponseti method in CTEV management ?

A:-Carus is the first deformity to be corrected

B:-Counter pressure is applied at the calcaneocuboidal joint during casting

C:-Subcutaneous Achilles tendon tenotomy is done in vast majority of patients for rapid correction

D:-Elevation of 1st metatarsal in first cast

Correct Answer:- Option-B

Question36:-Plaster of Paris is made of

A:-Calcium Sulfate $\frac{1}{2}H_2O$

B:-Calcium Carbonate $\frac{1}{2}H_2O$

C:-Calcium Chloride $\frac{1}{2}H_2O$

D:-Calcium Nitrate $\frac{1}{2}H_2O$

Correct Answer:- Option-A

Question37:-The most common plastic used to make upperlimb prosthetic socket is

A:-Polyethylene

B:-Polypropylene

C:-Alcathene

D:-Bakelite

Correct Answer:- Option-B

Question38:-The type of gloves used to handle hot materials taken out from an oven in an orthotics lab includes the following except

A:-Neoprene gloves

B:-Aramid gloves

C:-Nitrile gloves

D:-Aluminised gloves

Correct Answer:- Option-C

Question39:-Which type of cast saw is the safest to use to cut open an orthopaedic plaster of paris cast applied on a patients leg ?

A:-Rotating cast saw

B:-Hack saw for cast

C:-Belt saw for cast

D:-Oscillating cast saw

Correct Answer:- Option-D

Question40:-Which among the following fire extinguisher is the best to use in an electrical fire ?

A:-Carbon dioxide extinguisher

B:-Water extinguisher

C:-Wet chemical extinguisher

D:-Foam extinguisher

Correct Answer:- Option-A

Question41:-What are the main benefits of hex head screws used in prosthetic and orthotic unit ?

A:-They are hidden within a recessed cavity

B:-They have flush flat surface

C:-They give strong grip and easy engagement with tools

D:-They feature a star shaped profile for greater resistance

Correct Answer:- Option-C

Question42:-Gloves most suitable for welding include

A:-Dielectric rubber gloves

B:-Flame resistant leather gloves

C:-Metal mesh gloves

D:-Vinyl coated gloves

Correct Answer:- Option-B

Question43:-All of the following are workspace safety precautions taken while drilling except

A:-Always wear safety glasses

B:-Ensure the drill bit is tightened by a drill chuck

C:-Avoid excessive pressure while drilling

D:-Hold the prosthesis well in your opposite hand while drilling

Correct Answer:- Option-D

Question44:-The most common oven used in a prosthetic and orthotic lab is a

A:-Microwave oven

B:-Steam oven

C:-Hot air oven

D:-Electric arc oven

Correct Answer:- Option-C

Question45:-One of the following is not a thermosetting plastic used in prosthetics and orthotics

A:-Epoxy resin

B:-Polyurethane

C:-Poly propylene

D:-Polyester resin

Correct Answer:- Option-C

Question46:-Low temperature plastics used in orthotics are moulded between

A:-60-75°C

B:-100-150°C

C:-40-50°C

D:-150-250°C

Correct Answer:- Option-A

Question47:-"MCR" in leather and footwear work stands for

A:-Mouldable Cellular Rubber

B:-Macro Cellular Rubber

C:-Micro Cellular Rubber

D:-Minor Cellular Rubber

Correct Answer:- Option-C

Question48:-Calf leather is primarily used for the

A:-VAMP (upper) of a shoe

B:-Out sole of a shoe

C:-Counter of a moulded shoe

D:-None of the above

Correct Answer:- Option-A

Question49:-A vise is mainly used in prosthetics and orthotics to

A:-Tighten the screw of drop lock joint

B:-Hold the prosthesis securely for work

C:-Cut the metal screw flush with the flat

D:-Handle objects from the hot oven

Correct Answer:- Option-B

Question50:-Dynamic alignment involves adjusting the prosthesis while the user is

A:-Standing

B:-Sitting

C:-Lying and lifting the leg

D:-Walking

Correct Answer:- Option-D

Question51:-One of the naming system for orthosis which reports the anatomic region it covers, was developed by

A:-I.S.O. (International Organization for Standards)

B:-UNESCO (United Nations Education Scientific Cultural Organization)

C:-UNICEF (United Nations International Children's Emergency Fund)

D:-WB (World Bank)

Correct Answer:- Option-A

Question52:-In a rheumatoid hand, the swan-neck deformity is due to

A:-Hyper extension of radioulnar joints

B:-Hyper extension of PIP (Prox Inter-Phalangeal) and flexion of DIP(Distal Inter-Phalangeal) of finger

C:-Hyper extension of carpal joints

D:-Hyper extension of Meta Tarso Phalangeal (MTP) joint

Correct Answer:- Option-B

Question53:-In flexor tendon injury of wrist and hand the upper limb orthosis given post operatively blocks/prevents

A:-Full extension of elbow

B:-Full extension of shoulder

C:-Full extension of wrist and MCP (Meta Carpo Phalangeal) joint

D:-Full extension of proximal radioulnar joint

Correct Answer:- Option-C

Question54:-Thumb spica splint

A:-Limits thumb motion in the MCP (Meta Carpo Phalangeal) and Carpo Metacarpo Phalangeal of thumb

B:-Limits index finger MCP(Meta Carpo Phalangeal) and IP(Inter Phalangeal)

C:-Limits ring finger MCP and IP

D:-Limits little finger MCP and IP

Correct Answer:- Option-A

Question55:-Tendinitis is

A:-Inflammation of bone

B:-Inflammation of joint

C:-Inflammation of ligament

D:-Inflammation of tendon

Correct Answer:- Option-D

Question56:-Lateral epicondylitis of humerus of upper limb is given a ____ orthosis.

A:-Tennis elbow orthosis

B:-Thumb spica

C:-Finger orthosis

D:-Wrist hand orthosis

Correct Answer:- Option-A

Question57:-Which is the peripheral nerve injured in fracture shaft of humerus distal at/to spiral groove ?

A:-Common peroneal nerve

B:-Radial nerve

C:-Sural nerve

D:-Tibial nerve

Correct Answer:- Option-B

Question58:-In ulnar nerve palsy, the splint for correction prevents

A:-Prevents hyperextension of MCP (Meta Carpo Phalangeal) joints of hand fingers

B:-Prevents flexion of thumb

C:-Prevents extension of thumb

D:-Prevents I-P (Inter- Phalangeal) extension of thumb

Correct Answer:- Option-A

Question59:-Thermoplastic material for orthosis which can be shaped in a water bath is

A:-Aluminium

B:-Low temperature thermoplastics

C:-Leather

D:-Wood

Correct Answer:- Option-B

Question60:-Boutonniere and swan neck deformities are seen in ___disease.

A:-Rheumatoid arthritis

B:-Transverse myelitis

C:-Guillian barre syndrome

D:-Spinal muscular atrophy

Correct Answer:- Option-A

Question61:-Bow legged condition around the knee of the lower limb is termed as

A:-Equinus

B:-Genu varum

C:-Pes planus

D:-Pes valgus

Correct Answer:- Option-B

Question62:-According to standard orthotic nomenclature of lower limb orthosis AFO stands for

A:-Ankle Foot Orthosis

B:-Applied Force Opposition

C:-Angulated Force Opposition

D:-Angled Force Opposition

Correct Answer:- Option-A

Question63:-In a shoe, the tongue part is seen at a heel of shoe

A:-Heel of shoe

B:-Part of vamp of shoe

C:-Outer heel of shoe

D:-Insole of shoe

Correct Answer:- Option-B

Question64:-Mention another name for flat foot

A:-Genu valgum

B:-Genu varum

C:-Pes planus

D:-Coxavalga

Correct Answer:- Option-C

Question65:-The orthotic support in shoe, given in flat feet to relieve pain is

A:-Medial longitudinal arch support

B:-Broad toe box

C:-Narrow toe box

D:-Long toe box

Correct Answer:- Option-A

Question66:-The lower limb orthosis which partially relieves weight bearing stress of distal lower limb ankle and foot is

A:-P-T-B Pattellar Tendon Bearing AFO

B:-Elbow orthosis

C:-WHO-Wrist Hand Orthosis

D:-Toe spacer

Correct Answer:- Option-A

Question67:-The lower limb orthosis given for foot drop is

A:-Toe spacer

B:-Ankle Foot Orthosis

C:-Elbow Orthosis

D:-Wrist Hand Orthosis

Correct Answer:- Option-B

Question68:-Lower limb orthosis used in patients with severe knee extensor weakness or knee instability or knee flexor spasm is

A:-Bal shoe

B:-Blucher shoe

C:-Wrist Hand Orthosis

D:-KAFO- Knee Ankle Foot Orthosis

Correct Answer:- Option-D

Question69:-The following are the types of knee joints in lower limb orthosis except

A:-Straight set drop lock knee joint

B:-Flexor hinge WHO Wrist Hand Orthosis

C:-Polycentric knee joint

D:-Posterior offset knee joint

Correct Answer:- Option-B

Question70:-Bilateral HKAFO Hip Knee Ankle Foot Orthosis used in children with weak lower limbs, to stand is also termed as

A:-Reciprocating Gait Orthosis

B:-Ankle Foot Orthosis

C:-Knee Orthosis

D:-Knee Ankle Foot Orthosis

Correct Answer:- Option-A

Question71:-Vertebral column has ____ vertebrae.

A:-20

B:-21

C:-33

D:-29

Correct Answer:- Option-C

Question72:-The cervical orthosis with skull pins which provides maximum restriction to neck movements is

A:-HALO

B:-Soft Collar

C:-Lumbo Sacral Orthosis

D:-Thoracolumbar Orthosis

Correct Answer:- Option-A

Question73:-The spinal orthosis that can be given for juvenile idiopathic scoliosis is

A:-Soft cervical collar

B:-Milwaukee Brace

C:-HALO

D:-Philadelphia cervical collar

Correct Answer:- Option-B

Question74:-The orthosis which fixes on to sternum, occiput and mandible for neck is

A:-SOMI

B:-AFO

C:-KO

D:-KAFO

Correct Answer:- Option-A

Question75:-Vertebral column has ____ cervical vertebrae.

A:-12

B:-5

C:-4

D:-7

Correct Answer:- Option-D

Question76:-The ratio of upper limb to lower limb amputations is

A:-1:2.9

B:-1:3.9

C:-1:4.9

D:-1:5.9

Correct Answer:- Option-C

Question77:-The most common congenital limb deficiency is

A:-Right terminal transverse radial limb deficiency

B:-Left terminal transverse radial limb deficiency

C:-Left terminal transverse ulnar limb deficiency

D:-Right terminal transverse ulnar limb deficiency

Correct Answer:- Option-B

Question78:-The ideal window of opportunity for unilateral upper limb amputee is

A:-1 to 4 months

B:-2 to 5 months

C:-3 to 6 months

D:-4 to 7 months

Correct Answer:- Option-C

Question79:-Munster is a ___ type of prosthetic suspension system.

A:-Harness

B:-Semi suction

C:-Suction

D:-Self-suspension

Correct Answer:- Option-D

Question80:-What is the ideal frequency of replacement of prosthetic socket for 8 year old child with limb deficiency of upper limb ?

A:-Yearly

B:-Every 18 months

C:-Every 2 years

D:-Every 3 years

Correct Answer:- Option-B

Question81:-The ideal time of initiation of prosthetic fitment for a pediatric amputee is

- A:-1 to 7 months
- B:-2 to 8 months
- C:-3 to 9 months
- D:-4 to 10 months

Correct Answer:- Option-C

Question82:-Out of the following which is not a component of tragic rule of 50% associated with diabetes mellitus ?

- A:-50% ends up with either transtibial/trans femoral amputation
- B:-50% ends up with a second amputation in less than 5 years
- C:-50% dies within 5 years
- D:-50% amputations are done for foot ulcers

Correct Answer:- Option-D

Question83:-A 74 year old diabetic with 24 years history of diabetes mellitus; he had a transtibial amputation for a non healing foot ulcer, the ideal trans tibial socket of choice

- A:-PTB
- B:-PTB-SC
- C:-PTB-SCSP
- D:-TSB

Correct Answer:- Option-C

Question84:-The flex foot is made of

- A:-Carbon fiber
- B:-Titanium
- C:-HDPE
- D:-LTTP

Correct Answer:- Option-A

Question85:-According to the Medicare Functional Classification Levels (MFCL) Level 3 means

- A:-Limited community ambulatory
- B:-Unlimited community ambulator
- C:-Amputee sports
- D:-Limited home premises ambulator

Correct Answer:- Option-B

Question86:-Among the different transfemoral sockets which is called as Sabolich's socket ?

- A:-Quadrilateral

B:-NSNA

C:-CAD-CAM

D:-TCS

Correct Answer:- Option-B

Question87:-As a prosthetist when you will suggest an amputee to replace a socket due to residual limb shrinkage-(When the ply of socks reaches)

A:-5 to 7

B:-7 to 9

C:-8 to 10

D:-10 to 15

Correct Answer:- Option-D

Question88:-Which is the least preferred foot wear modification for a patient had great toe amputation ?

A:-Heel lift

B:-Long steel spring shank

C:-Metatarsal pad

D:-Rocker sole

Correct Answer:- Option-A

Question89:-What is the gait deviation observed when prosthetic feet is set too much anterior in a transtibial amputee ?

A:-Bowlegged

B:-Knockneed

C:-Buckling of knees

D:-Hill-climbing

Correct Answer:- Option-D

Question90:-What is the type of hand rim advised for wheel chair sports ?

A:-Large diameter

B:-Small diameter

C:-Thick

D:-Knobby

Correct Answer:- Option-B

Question91:-Tilt in space seats of wheel chairs are working on the basis of ____mechanism.

A:-Hydraulic

B:-Pneumatic

C:-Electric

D:-Suspension spring

Correct Answer:- Option-A

Question92:-Out of the following which is not a feature of wheel chair meant for a bilateral transfemoral amputee ?

A:-Anti tippers

B:-Posteriorly placed axils

C:-Anti-roll back controls

D:-Lowered seats

Correct Answer:- Option-C

Question93:-Out of the following which is not a feature of seating system of a wheel chair used by a patient with clinically significant spasticity ?

A:-Rolled seats

B:-Anti thrust seats

C:-Special back to seat angle

D:-Adduction devices

Correct Answer:- Option-D

Question94:-Example for a non-proportional control of motorized wheel chair is

A:-Joystick

B:-Sip and puff

C:-High breaks

D:-Voice control

Correct Answer:- Option-B

Question95:-Body weight transmission with bilateral axillary crutches is up to ____%.

A:-50

B:-60

C:-70

D:-80

Correct Answer:- Option-D

Question96:-In right sided hip abductor weakness; on which side this patient is supposed to hold a cane ?

A:-Right

B:-Left

C:-Bilateral

D:-None

Correct Answer:- Option-B

Question97:-Everett crutch is used for the weakness of which muscles ?

A:-Biceps

B:-Deltoid

C:-Triceps

D:-Latissimus dorsi

Correct Answer:- Option-C

Question98:-Which is the fastest crutch gait ?

A:-Swing through three point

B:-Swing to three point

C:-Four point

D:-Two point

Correct Answer:- Option-A

Question99:-What is the type of gait advisable for a patient with significant symmetrical polyarthralgia ?

A:-Four point

B:-Two point alternating

C:-Two point simultaneous

D:-Three point

Correct Answer:- Option-A

Question100:-Mobility aid of choice for a patient with ataxia is

A:-Axillary crutch

B:-Elbow crutch

C:-Quad cane

D:-Walker

Correct Answer:- Option-D