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## **BRAINWARE UNIVERSITY**

## Term End Examination 2021 - 22 Programme – Bachelor of Science in Physician Assistant Course Name – Orthopedics Course Code - BPA505 (Semester V)

Time: 1 Hr.15 Min. Full Marks: 60 [The figure in the margin indicates full marks.] Group-A (Multiple Choice Type Question) 1 x 60=60 Choose the correct alternative from the following: (1) Muscles involed in Volkman's ischemic contracture a) Flexor pollicis longus b) Flexor profundus c) Flexor sublimis d) All of these (2) Medial meniscus is more vulnerable to injury because of? a) Its fixity to tibial collateral ligament b) its semicircular shape c) action of adductor magnus d) its attachment to fibrous capsule (3) Injury to the popliteal artery in fracture lower end of femur is often due to a) Distal fragment pressing the artery b) Proximal fragment pressing the artery c) Tight plaster d) Hematoma (4) In transverse fracture of the patella the treatment is a) Excision of small fragment b) Wire fixation c) Plaster cylinder d) Patellectomy (5) Myositis ossficans is commonly seen at the b) Knee a) Hip d) Shoulder c) Elbow (6) The most important factor in fracture healing is b) Accurate reduction and 100%& apposition o a) Good alignment f fractured fragments c) Immobilization d) Adequate calcium intake (7) The most preferred treatment of fracture of neck of femure of a person is a) Hemiarthroplasty b) Total hip treatment c) conservative treatment d) closed reduction, internal fixation (8) Which is not a principle of compound fracture treatment?

a) No tendon repair	<ul> <li>b) Aggressive Antibiotic cover</li> <li>d) Immediate Wound closure</li> </ul>
c) Wound debridement	(1) Immediate Would by
(9) Injury to the popliteal artery in fracture low	b) Proximal fragment pressing the artery
a) Distal fragment pressing the artery	
c) Tight plaster	d) Hematoma
(10) In transverse fracture of the patella, the trea	
a) Excision of small fragment	b) Wire fixation
c) Plaster cylinder	d) Patellectomy
(11) March fracture affects	
a) Neck of 2nd metatarsal	b) Body of 2nd Metatarsal
c) Neck of 1 st metatarsal	d) Fracture of lower end of tibia
(12) Myositis ossificans is commonly seen at the	ie
a) Hip	b) Knee
c) Elbow	d) Shoulder
(13) Commonest complication of extracapsular	fracture of neck of femur is
a) Non Union	b) iscnemic necrosis
c) Maiunion	d) aTPuTmonary complications
(14) A segmental compound fracture tibia with	1cm skin wound is classified as
a) Type I	b) Type II
c) Type III	d) Type IV
(15) Treatment after removal of plaster for sup	racondylar fracture of humerous
a) active mobilization at elbow point	b) massage
c) no treatment	d) passive movements at elbow
(16) Volkmann's ischaemic contracture is due t	iQ .
a) Arterial injury	b) Venous injury
c) Nerve injury	<ul><li>d) Increase of compartment pressure in the lin</li><li>b</li></ul>
(17) Treatment of fracture clavicle in an infant	is best treated by
a) Cuff and sling_x000D_	b) Open reduction
c) Figure of 8 bandage	d) Shoulder cast
(18) Late complication of acetabular fracture	
a) Avascular necrosis of head of femur	b) Avascular necrosis of iliac crest
c) Fixed deformity of the hip joint	d) secondary osteoarthritis of hip joint
(19) Treatment of anterior dislocation of shou	lder is by
a) Kocher's manoeuvre	b) Dennis browne splint
c) Barlows manoeuvre	d) Surgery
(20) Patient comes with fracture of femur in a	n acute accident thing to do is
a) Secure airway and treat the shock	b) Splinting
c) Physical examination	d) X Rays
(21) On an x-ray, onion peel appearance is see	en in?
a) osteoclastoma	b) Osteosarcoma
c) Ewing's sarcoma	d) osteochondroma
(22) In which carcinoma, bony metastasis is a	not seen.
a) Bronchus	b) Pelvis

c) Breast	d) Testis
(23) Which of these is a marker for bone formation	?
a) serum nucleotidase	b) urinary calcium
c) osteocalcin	d) tartrate-resistant acid phosphate
(24) Which of the following agents doesn't decrease	
a) Strontium ranelate	b) Risedronate
c) Teriparatide	d) Raloxifene
(25) The characteristic feature of Blount's disease is	· ·
a) Genu varum	b) Genu valgum
c) Coxa valga	d) Coxa vara
(26) Which of these is the most reliable method for	,
a) CT scan	b) SPECT
c) Radiography	d) MRI
(27) is not a benign tumor.	
a) Chordoma	b) Chondroma
c) Enchondroma	d) Osteochondroma
(28) The starting point of Tuberculosis of the spine	
a) nucleolus pulposus	b) vertebral body
c) paravertebral joints	d) annulus fibrosis
(29) is the commonest site of skeletal tube	
a) Radius	b) Tibia
c) Vertebrae	d) Humerus
(30) Triad of Klippel Feil syndrome consists of all the	
a) Short neck	b) Limited neck movements
c) Low hairline	d) Elevated scapula
(31) All are true regarding synovial sarcoma except	_
a) Usually seen in individuals less than 50 year s of age	b) Originates from the synovial lining
c) More common at extra-articular sites	d) Knee and foot are commonly involved
(32) Distal interphalangeal is a joint that is not invol	
a) neuropathic arthropathy	b) psoriatic arthritis
c) multicentric histiocytosis	d) rheumatoid arthritis
(33) is most often involved in march fracture	e.
a) 1st metatarsal	b) 3rd metatarsal
c) 2nd metatarsal	d) Both 2 and 3
(34) Which of the following is a true statement abou	
a) Sequestrum is a sheath of new bone formation	b) Involucrum is a piece of dead bone
c) Involucrum is surrounded by sequestrum	d) Sequestrum is surrounded by an involucrum
(35) Gallow's traction is used for?	
a) Fracture humerus	b) Fracture tibia
c) Fracture neck of the femur	d) Fracture shaft of the femur
(36) The radiological feature of is soap bu	bble appearance.
a) osteoid osteoma	h) chordoma

c) osteosarcoma	d) osteoclastoma or GCT
(37) In which of the following Osteoarthritis is not in	
a) distal interphalangeal joints	b) knee joint
c) hip joint	d) metacarpophalangeal joint of the thumb
(38) Which of the following is not true about the fract	ture of the atlas vertebrae?
a) CT scans should be done for diagnosis	b) Atlantooccipital fusion may sometimes be n eeded
c) Quadriplegia is seen in 80% of cases	d) Jefferson fracture is the most common type
(39) Which of the following is not involved in pelvic	
a) Ischial tuberosities	b) Pubic rami
c) Acetabulum	d) Alae of ileum
(40) Which of these malignant tumors is radioresistant	nt?
a) Osteosarcoma	b) Ewing's sarcoma
c) Neuroblastoma	d) Retinoblastoma
(41) Which of the following is not true about exostos	is?
a) Malignant transformation may occur	b) It occurs at the growing end of the bone
c) It is covered by a cartilaginous cap	d) Growth continues after skeletal maturity
(42) Metabolic bone disease is caused by excess intal	
a) vit A	b) Vit B complex
c) Vit D	d) None of these
(43) Osteoporosis is related with	
a) late childbirth	b) family history present
c) reduced weight for height	d) Smoking
(44) Due to injury of nerve, Trendelenburg	test is positive.
a) obturator nerve	b) superior gluteal nerve
c) pudendal nerve	d) inferior gluteal nerve
(45) Which of these conditions is least likely to prese	ent as an eccentric osteolytic lesion?
a) Giant cell tumor	b) Simple bone cyst
c) Aneurysmal bone cyst	d) Fibrous cortical defect
(46) Which of the following is not a cause of a sudde	n increase in pain in osteochondroma?
a) Fracture	b) Sarcomatous change
c) Degenerative changes	d) Bursitis
(47) Bones act as a storage reservoir for all of the fol	lowing substances except:
a) Magnesium	b) Calcium
c) Phosphate	d) Glycogen
(48) Concerning periosteum, which of the statements	s is false?
a) Periosteum is made of two layers	<ul> <li>b) Periosteum provides the predominant blood supply to bone in adults</li> </ul>
<ul> <li>c) Periosteum is thicker in children than in adults</li> </ul>	d) Periosteum is continuous with the joint caps ule
(49) Osteoblasts:	•
a) Produce acid to resorb bone.	<ul> <li>b) Are dormant cells trapped within the layers of lamellar bone.</li> </ul>
c) Are bone-forming cells	d) Are found within the synovium of joints.
(50) Which of the following types of cartilage lines	healthy synovial joints?

a) Fibrocartilage	b) Hyaline cartilage
c) Elastic cartilage	d) None of these
(51) Articular cartilage:	
a) Is a poorly structured substance.	b) Has eight distinct zones.
c) Is very good at resisting shear.	d) Generates high levels of friction to stabilise t he joint.
(52) Articular cartilage has all of the following prope	rties except:
a) Avascular	b) Alymphatic
c) Aneural	d) Acellular
(53) Which of the following statements is true regard	ing the menisci of the knee?
<ul> <li>a) A normal knee has one horseshoe-shaped me niscus.</li> </ul>	b) Menisci are composed of elastic cartilage.
<ul> <li>c) Menisci help with distribution of load acros s the knee.</li> </ul>	d) The meniscus has a good blood supply and t ears therefore often heal effectively.
(54) Which of the following statements is false?	
a) Ligaments connect bone to bone	b) Tendons connect muscle to bone.
<ul> <li>c) Tendons and ligaments are made of longitudi nally arranged collagen fibres.</li> </ul>	d) Ligaments are less elastic than tendons.
(55) Regarding calcium, which statement is false?	
<ul> <li>a) Calcium is a vital part of muscle function an d abnormal levels may result in tetany or car diac arrhythmia.</li> </ul>	b) 75% of total body calcium is stored in bone.
<ul> <li>c) Plasma proteins bind around 50% of circulat ing calcium, the exact level dependent on p</li> <li>H.</li> </ul>	d) In its stored state, calcium is stored bound to phosphate.
(56) Select which substance best matches the descrip lls in response to hypocalcaemia, it acts to stimu 4 from bone, increases hydroxylation of vitamin xcretion of PO4.	late osteoclasts to release Ca and PO
a) Parathyroid hormone (PTH)	b) 25-hydroxycholecalciferol
c) 1,25-dihydroxycholecalciferol	d) Calcitonin
(57) An octogenarian suffers a vertebral wedge fractus sequently has a DEXA scan to evaluate for the phe WHO, what defines severe osteoporosis?	are when sitting down heavily. She sub presence of osteoporosis. According to t
a) T-score >0.5	b) T-score -0.5 to -1.5
c) Z-score >0.5	d) T-score -2.5
(58) All of the following are risk factors for osteopor	osis except:
a) Female sex	b) Dietary deficiency of calcium
c) High body mass index	d) Smoking
(59) All of the following are treatments for osteoporo	osis except:
a) Bisphosphonates	b) A period of non-weightbearing
c) Vitamin D supplements	d) Calcium supplements
(60) The condition that results in a quantitative reduc	
a) Osteopetrosis	b) Osteomalacia
c) Osteoporosis	d) Osteomyelitis