

# FINAL ANSWER KEY

Question Paper Code:	10/2018/OL
Category Code:	151/2017
Exam:	Senior Lecturer in Orthopaedics NCA
Medium of Question:	English
Date of Test	14-02-2018
Department	Medical Education
Alphacode	A

Question1:-'Navika Sagar Parikrama', a circum-navigation expedition by an all-woman Indian Navy crew, was flagged off on Sept 10, 2017 from which state?

- A:-Goa
- B:-Tamil Nadu
- C:-Gujarat
- D:-Maharashtra

Correct Answer:- Option-A

Question2:-Who is the Chief Justice of India?

- A:-Shekhar Basu
- B:-Dipak Misra
- C:-Baldev Sharma
- D:-P.K. Sinha

Correct Answer:- Option-B

Question3:-Who is the father of 'Modern Kerala Renaissance'?

- A:-Chattampi Swamikal
- B:-Ayyankali
- C:-Brahmananda Sivayogi
- D:-Sree Narayana Guru

Correct Answer:- Option-D

Question4:-Who was the owner of the famous newspaper 'Swadeshabhimani'?

- A:-Moorkoth Kumaran
- B:-C.V. Kunjiraman
- C:-Vakkam Abdul Khadar Maulavi
- D:-K. Ramakrishna Pillai

Correct Answer:- Option-C

Question5:-Which event led to the Royal Proclamation of July 26, 1859?

- A:-Vaikom Sathyagraha
- B:-Kuttamkulam Sathyagraha
- C:-Ezhava Memorial
- D:-Shanar Agitation

Correct Answer:- Option-D

Question6:-Who accepted the pen name 'Kesari'?

- A:-C.V. Kunjiraman
- B:-Kandathil Varughese Mappilai
- C:-Vengayil KunhIRaman Nair
- D:-Chengalath KunhIRama Menon

Correct Answer:- Option-C

Question7:-Who is regarded as the 'father of political movement' in modern Travancore?

- A:-G. Parameswaran Pillai
- B:-R. Ranga Rao
- C:-N. Raman Pillai
- D:-Mathu Tharakan

Correct Answer:- Option-A

Question8:-'Hit Refresh' is a famous book written by \_\_\_\_\_.

- A:-Sanjay Jha
- B:-Sunder Pichai
- C:-Satya Nadella
- D:-Arvind Pangarhia

Correct Answer:- Option-C

Question9:-Who authored the work 'Mokshapradipam'?

- A:-Vagbhatananda
  - B:-Brahmananda Sivayogi
  - C:-Vaikunta Swami
  - D:-Kumara Guru
- Correct Answer:- Option-B

Question10:-Nair Service Society (NSS) has been modelled after which organization?

- A:-Brahma Samaj
  - B:-Arya Samaj
  - C:-Servants of India Society
  - D:-Home Rule League
- Correct Answer:- Option-C

Question11:-Who is the Chief of International Monetary Fund (IMF)?

- A:-Christine Lagarde
  - B:-Paolo Gentiloni
  - C:-James Mattis
  - D:-Htin Kyaw
- Correct Answer:- Option-A

Question12:-Article 24 deals with \_\_\_\_\_.

- A:-Freedom of conscience
  - B:-Prohibition of employment of children
  - C:-Paying of taxes
  - D:-Right to conserve the language and culture
- Correct Answer:- Option-B

Question13:-'Kazhinja Kalam' is the autobiography of \_\_\_\_\_.

- A:-Joseph Mundassery
  - B:-K.P. Kesava Menon
  - C:-E.V. Krishna Pillai
  - D:-A.K. Gopalan
- Correct Answer:- Option-B

Question14:-Who authored the novel 'Sarada'?

- A:-C.V. Raman Pillai
  - B:-Appu Nedungadi
  - C:-O. Chandu Menon
  - D:-K.M. Panikkar
- Correct Answer:- Option-C

Question15:-When did Sri Chithira Tirunal Balarama Varma issued his famous Temple Entry Proclamation?

- A:-Nov. 1, 1936
  - B:-Nov. 12, 1936
  - C:-Nov. 10, 1937
  - D:-Nov. 10, 1938
- Correct Answer:- Option-B

Question16:-'Wagon Tragedy' happened to be a tragic episode of \_\_\_\_\_.

- A:-Non-co-operation
  - B:-Paliyam Sathyagraha
  - C:-Kuttamkulam Sathyagraha
  - D:-Malabar Rebellion
- Correct Answer:- Option-D

Question17:-Which article of our Constitution describes India as a 'Union of States'?

- A:-Article 1
  - B:-Article 2
  - C:-Article 3
  - D:-Article 4
- Correct Answer:- Option-A

Question18:-Which country has roped in Bollywood actress Parineeti Chopra as their tourism ambassador?

- A:-China
- B:-South Kerala
- C:-Japan
- D:-Australia

Correct Answer:- Option-D

Question19:-Under the Pradhan Mantri Garib Kalyan Yojana, black money worth \_\_\_\_\_ was disclosed.

A:-Rs. 4,900 crore

B:-Rs. 4,500 crore

C:-Rs. 4,000 crore

D:-Rs. 5,200 crore

Correct Answer:- Option-A

Question20:-Which state assembly has passed the bill on parental care on Sept 15, 2017?

A:-Tamil Nadu

B:-Mizoram

C:-Bihar

D:-Assam

Correct Answer:- Option-D

Question21:-The following are true about Caffey's disease, except

A:-Warm swellings over the mandibles

B:-Leukoctosis

C:-Lesions in the Scapula are usually unilateral

D:-Onion peel like appearance on X rays

Correct Answer:- Option-A

Question22:-Sarcoidosis is also known as the following, except

A:-Osteitis tuberculosis simplex cyctoides

B:-Schaumann's disease

C:-Jungling's disease

D:-Uveoparotid fever

Correct Answer:- Option-A

Question23:-In chronic low back pain, correlation between CT and EMG for localisation of nerve root injury is between

A:-20 to 35%

B:-80 to 85%

C:-45 to 50%

D:-65 to 73%

Correct Answer:- Option-D

Question24:-Acute Brachial neuritis usually affects

A:-Long thoracic nerve

B:-Radial nerve

C:-Musculocutaneous curve

D:-Dorsal scapular nerve

Correct Answer:- Option-A

Question25:-The following are true in Necrotising facillitis caused by streptococcus Pyogenes, except

A:-Often begins at the site of a non penetrating injury

B:-Creatine Phosphokinase is elevated

C:-Renal impairment is common

D:-Usually associated with gas in deep tissues

Correct Answer:- Option-D

Question26:-Lytic changes of bone are radiologically visible due to loss of \_\_\_\_\_% of bone density.

A:-50 - 75

B:-35 - 45

C:-20 - 30

D:-More than 80

Correct Answer:- Option-A

Question27:-The most common site of haematogenous osteomyelitis in adults is

A:-Vertebrae

B:-Upper Tibia

C:-Pubis

D:-Neck of Femur

Correct Answer:- Option-A

Question28:-Common causes of Sternal Osteomyelitis after cardiac surgery are all except

A:-Pseudomonas Aeruginosa

B:-Staph. Aureus

C:-Gram negative enteric bacilli

D:-Mycoplasma

Correct Answer:- Option-A

Question29:-Ossification center of Greater tuberosity of Humerus appears between the following age

A:-Present at birth

B:-5 to 7 year

C:-9 to 10 year

D:-3rd month to 2 year

Correct Answer:- Option-D

Question30:-The most widespread type of cartilage in the body is

A:-Hyaline cartilage

B:-Fibrocartilage

C:-Elastic cartilage

D:-Chondro cartilage

Correct Answer:- Option-A

Question31:-The following factors hindring absorption of calcium from the intestine, except

A:-Excessive Phosphates

B:-Excessive fatty acids

C:-Excessive Carbonates

D:-Excessive Magnesium

Correct Answer:- Option-D

Question32:-Which of the following is a feature of High Phosphorous rickets?

A:-Marked alkalosis

B:-Normal parathyroid activity

C:-Monkeberg sclerosis

D:-Large bowel retains the excess Calcium

Correct Answer:- Option-C

Question33:-The following is true of Secondary Hyperparathyroidism due to renal damage, except

A:-High serum Phosphorous

B:-High Calcium level

C:-Stunted growth

D:-Marrow fibrosis

Correct Answer:- Option-B

Question34:-Of the following, which bone is most frequently involved by Paget's disease

A:-Skull

B:-Spine

C:-Tibia

D:-Fibula

Correct Answer:- Option-A

Question35:-Empty can' test is done to detect

A:-Sacrolliac joint pathology

B:-Iliopsoas tear

C:-Deltoid ligament pathology

D:-Supraspinatus impingement

Correct Answer:- Option-D

Question36:-Birbeck granules in Histiocytosis X are found inside

A:-Endoplasmic Reticulum

B:-Langerhan's cells

C:-Mitochondria

D:-Ribosome

Correct Answer:- Option-B

Question37:-The following is true about Ollier's disease, except

A:-More common than Mafucci's syndrome

B:-Bilateral distribution of enchondromas

C:-Haemangiomas are not seen

D:-Lymphangioma is absent

Correct Answer:- Option-B

Question38:-The following are associated with 'coxa saltans' except

A:-Thickened Iliotibial band

B:-Slipping of anterior edge of Gluteus Maximus

C:-Illiopsoas tendinitis

D:-Rectus femoris tear

Correct Answer:- Option-D

Question39:-The following is true about Riche Cannieu Anastomosis, except

A:-May be misdiagnosed as Carpal Tunnel Syndrome

B:-Connection from MN to UN in the forearm

C:-Electromyography is helpful in diagnosing the condition

D:-All intrinsic muscles of hand may be innervated by Ulnar nerve

Correct Answer:- Option-B

Question40:-"Jersey Finger" commonly affects

A:-Ring finger

B:-Index finger

C:-Little finger

D:-Middle finger

Correct Answer:- Option-A

Question41:-The manifestations of Neurofibromatosis include all except

A:-Hypoplasia of transverse process of Thoracic vertebrae

B:-Anterior scalloping of Thoracic vertebrae

C:-Lateral scalloping of cervical vertebrae

D:-Hypoplasia of pedicles

Correct Answer:- Option-C

Question42:-The following is true about Non osteogenic Fibroma of bone

A:-Long axis perpendicular to the long axis of the bone

B:-Central location in the bone

C:-Thin border of decreased density

D:-Both ends of Fibula may be involved

Correct Answer:- Option-D

Question43:-Features of Fibrous dysplasia include all except

A:-Serum Calcium levels are usually normal

B:-Ground glass appearance of bone

C:-Leonine ossea

D:-Malignant transformation in 30-50%

Correct Answer:- Option-D

Question44:-Gurd test is aid in diagnosis of

A:-Ischial bursitis

B:-Peroneal tenosynovitis

C:-Fat embolism

D:-Acromion bursitis

Correct Answer:- Option-C

Question45:-The following is true regarding liposarcoma

A:-Polyherdral cells are not seen in liposarcoma

B:-Liposarcoma can metastasise to bones

C:-Usually seen in adults 40 years or more

D:-Liposarcoma do not originate within medullary cavity

Correct Answer:- Option-B

Question46:-The following is true about Gaucher's disease except

A:-Patients are susceptible for infections

B:-An increase in the number of plasma cells are often seen

C:-Lower part of femur is clubbed and expanded

D:-X linked recessive inheritance

Correct Answer:- Option-D

Question47:-Needle shaped negative birefringent crystals in synovial fluid is seen in

A:-Homocystinuria

B:-Gout

C:-Cystinuria

D:-Alkaptonuria

Correct Answer:- Option-B

Question48:-Which of the following is not useful in treatment of homocystinuria ?

A:-Vit B6

- B:-Niacin
- C:-Folic acid
- D:-Vit B12

Correct Answer:- Option-B

Question49:-Which of the following congenital disorders can present with hyperuricemia?

- A:-Alkaptonuria
- B:-Tay Sach's disease
- C:-Von Gierke's disease
- D:-Homocystinuria

Correct Answer:- Option-C

Question50:-Aldol Cross links are seen in

- A:-Elastin
- B:-Collagen
- C:-Procollagen
- D:-Desmosine

Correct Answer:- Option-B

Question51:-The following are false about "Park and Harris" Lines, except

- A:-Cannot occur after generalised illness
- B:-They are usually distributed relatively symmetrically
- C:-The lines near the end of the shaft are thinner
- D:-Does not occur after trauma

Correct Answer:- Option-B

Question52:-The function of Osteonectin in bone is

- A:-Binds hydroxy apatite
- B:-Controls mineralisation
- C:-Binds Calcium
- D:-Cell attachment

Correct Answer:- Option-C

Question53:-The normal value of blood pressure in a 12 year old (systolic-diastolic) in mm Hg is

- A:-60 - 35
- B:-115 - 65
- C:-120 - 65
- D:-98 - 57

Correct Answer:- Option-B

Question54:-The maximum recommended dose of local anaesthetic - Lidocaine (with Epinephrine) in children is

- A:-6 mg/kg
- B:-5 mg/kg
- C:-2.5 mg/kg
- D:-7 mg/kg

Correct Answer:- Option-D

Question55:-Recommended catheter placement for compartmental pressure measurement, the following is false

- A:-Thigh : Anterior compartment
- B:-Leg : Anterior / Posterior compartment
- C:-Forearm : Extensor compartment
- D:-Hand : Interosseous compartment

Correct Answer:- Option-C

Question56:-The following is true about Neurogenic shock, except

- A:-Hypotension
- B:-Cold extremities
- C:-Bradycardia
- D:-Urine output is normal

Correct Answer:- Option-B

Question57:-In Young and Burgess classification, APC type III includes

- A:-Complete disruption of Sacro Iliac Joint
- B:-Opening of anterior part of Sacro Iliac Joint
- C:-Sacral fracture on side of impact
- D:-Vertical displacement of hemipelvis

Correct Answer:- Option-A

Question58:-The structures causing irreducible anterior hip dislocation are all except

- A:-Rectus femoris
- B:-Labrum
- C:-Ligamentum teres
- D:-Capsule

Correct Answer:- Option-C

Question59:-In femoral neck fractures, OTA 31-B3.1 correlates to

- A:-Garden 1
- B:-Garden 2
- C:-Garden 3
- D:-Garden4

Correct Answer:- Option-C

Question60:-The following are features of Cleidocranial Dyostosis, except

- A:-Hypertelorism
- B:-Supernumerary teeth
- C:-Widened symphysis pubis
- D:-Usually Autosomal Recessive

Correct Answer:- Option-D

Question61:-Hunters syndrome is mucopolysaccharidoses type

- A:-MPS Type I H
- B:-MPS Type II
- C:-MPS Type III A
- D:-MPS Type IV

Correct Answer:- Option-B

Question62:-In Hastings Classification of Heterotopic Ossification, Type III is

- A:-Limitation of forearm pronation / supination
- B:-Limitation of elbow flexion / extension
- C:-Radiological findings without functional limitation
- D:-Bony ankylosis of elbow

Correct Answer:- Option-D

Question63:-Which is described as Type I Monteggia equivalent fracture by Bado, except?

- A:-Fracture of proximal radius
- B:-Radial neck fracture
- C:-Anterior dislocation of radial head
- D:-# ulnar diaphysis & olecranon with posterior dislocation of radial head

Correct Answer:- Option-D

Question64:-The Central compartment of the foot contains

- A:-Flexor digitorum brevis
- B:-Abductor hallucis
- C:-Flexor digiti minimi
- D:-Interosseous muscles

Correct Answer:- Option-A

Question65:-The best radiologic view to assess Scaphoid tubercle fracture is

- A:-45 degree oblique semi-pronated
- B:-Ulnar deviated AP
- C:-Lateral
- D:-Neutral AP

Correct Answer:- Option-A

Question66:-The type III periprosthetic Tibia Fractures after Total Knee Arthroplasty, fracture location is

- A:-Tibial plateau
- B:-Adjacent to the stem
- C:-Distal to Prosthesis
- D:-Tibial tubercle

Correct Answer:- Option-C

Question67:-The criteria for 'Complex Regional Pain Syndrome' in Orthopaedic setting includes all except

- A:-Non dermatomal neuropathic pain
- B:-Abnormalities of sweating
- C:-Swelling
- D:-Painless joint mobility

Correct Answer:- Option-D

Question68:-In Mirels criteria for risk of pathologic fracture, moderate pain is assigned a variable of

- A:-0
- B:-1
- C:-2
- D:-3

Correct Answer:- Option-C

Question69:-In Osteoporosis, BMD T-score is

- A:-> - 1
- B:-1 to -2.5
- C:-< 2.5
- D:-> 2.5

Correct Answer:- Option-C

Question70:-The volume of contrast needed for Hip arthroscopy is

- A:-10 ml
- B:-15 ml
- C:-40 ml
- D:-50 ml

Correct Answer:- Option-B

Question71:-The type of evidence in Observational study is considered as

- A:-Very low quality
- B:-Low quality
- C:-Moderate quality
- D:-High quality

Correct Answer:- Option-B

Question72:-In Mangled Extremity Severity Score (MESS), systolic BP transiently < 90 mm Hg has a score of

- A:-0
- B:-1
- C:-2
- D:-3

Correct Answer:- Option-B

Question73:-The Functional Independence Measurement (FIM) score is based on

- A:-12 Physical and psychological categories
- B:-21 items of basic capacities & higher performance levels
- C:-13 motor and 5 cognitive items
- D:-3 function scales

Correct Answer:- Option-C

Question74:-Indications for 'Early Total Care' in trauma patients includes

- A:-Lactate <2 mmol/L
- B:-Urine output > 0.5 ml/kg/hr
- C:-Mild hypercapnia
- D:-Inotropic stimulation is needed

Correct Answer:- Option-A

Question75:-Cotton Ball spots in the skull is seen in

- A:-Fibrosarcoma
- B:-Hyperparathyroidism
- C:-Myeloma
- D:-Pagets disease

Correct Answer:- Option-D

Question76:-All are Lipoid histiocytoses, except

- A:-Nemann-Pick disease
- B:-Gauches splenomegaly
- C:-Hand-Schuller-Christian disease
- D:-Letterer-Siwe disease

Correct Answer:- Option-D

Question77:-The views used in "FAST" ultrasound scans include all except

- A:-longitudinal subxipoid view
- B:-Right upper quadrant view of abdomen
- C:-Longitudinal left upper quadrant view of abdomen
- D:-Bilateral longitudinal thoracic views



Correct Answer:- Option-A

Question78:-The following are false about defined parameters for Systemic Inflammatory Response Syndrome, except

- A:-Body temperature > 38 deg C or < 36 deg C
- B:-PaCO<sub>2</sub> > 32 mm Hg
- C:-Heart rate < 90 beats / min
- D:-Resp. rate < 20 / min

Correct Answer:- Option-C

Question79:-Serum Inflammatory markers for Medicator activity include all, except

- A:-Interleukin-1
- B:-Lipopolysaccharide binding protein
- C:-Interleukin-18
- D:-Tumour necrosis factor

Correct Answer:- Option-B

Question80:-Coded value of 3 in Unweighted Reverse Trauma Score as used in Field Triage, has respiratory rate of

- A:-6-9 / min
- B:-> 29 / min
- C:-1-5 / min
- D:-10-29 / min

Correct Answer:- Option-B

Question81:-The mechanism of action of a 'Position' screw is

- A:-Used as a fulcrum to direct an intramedullary nail
- B:-Temporary fixation used with articulated compression device
- C:-Holds anatomical parts in correct relation to each other
- D:-A point of fixation used to anchor a wire loop

Correct Answer:- Option-C

Question82:-In Oestern and Tchem classification of closed fractures, 'superficial abrasion/contusion with mild fracture pattern's is

- A:-Grade 1
- B:-Grade 2
- C:-Grade 3
- D:-Grade 4

Correct Answer:- Option-A

Question83:-Ultimate tensile strength (Mpa) of cortical bone is

- A:-2
- B:-10
- C:-70
- D:-100

Correct Answer:- Option-D

Question84:-The following muscle attaches to the anterior surface of the fibular shaft, except

- A:-Tibialis posterior
- B:-Peroneus tertius
- C:-Extensor Digitorum longus
- D:-Extensor Hallucis longus

Correct Answer:- Option-A

Question85:-In anterior tibial syndrome, the following are false except

- A:-Extensor digitorum brevis is involved in the late phase
- B:-Electromyographic changes in the muscles are absent
- C:-Not seen in fractures of tibia
- D:-Ext. digitorum longus is always involved

Correct Answer:- Option-A

Question86:-The following muscles attaches to the posterior diaphysis of Tibia, except

- A:-Tibialis poerior
- B:-Flexor digitorum longus
- C:-Popliteus
- D:-Biceps femoris

Correct Answer:- Option-D

Question87:-The following are false about Sarcoidosis, except

- A:-Reossification of the lesions are likely during healing
- B:-Bony lesions often expand the cortex

C:-Lymphocytes in surrounding tissues are sparse  
D:-Long bones and vertebrae are frequently involved  
Correct Answer:- Option-C

Question88:-The following are true about congenital neurofibromatosis, except

A:-Inherited as Autosomal Dominant trait  
B:-In adults, 5 or more café au lait spots of 1.5 cm dia. are diagnostic  
C:-Kyphoscoliosis with single mid thoracic curve  
D:-In children café au lait are found most over the buttocks  
Correct Answer:- Option-C

Question89:-The following are accessory ossicles in the foot, except

A:-Os peroneum  
B:-Os cuboideum  
C:-Os tibiale externum  
D:-Os supra tibiale  
Correct Answer:- Option-D

Question90:-In classification of Apophyseal injuries of Olecranon in children, Type III A is

A:-Incomplete stress fracture  
B:-Pure apophyseal avulsions  
C:-Apophyseal-metaphyseal combinations  
D:-Apophysitis  
Correct Answer:- Option-B

Question91:-In proximal radius fractures, 'Reduction injuries' associated with elbow dislocation are classified as

A:-Type C  
B:-Type D  
C:-Type E  
D:-Type F  
Correct Answer:- Option-B

Question92:-The following attach to Radius, except

A:-Abductor Pollicis Longus  
B:-Anconeus  
C:-Flexor Digitorum Superficialis  
D:-Extensor Pollicis Longus  
Correct Answer:- Option-B

Question93:-Posterior interosseous nerve supplies all, except

A:-Extensor Pollicis Brevis  
B:-Abductor Pollicis Longus  
C:-Pronator Quadratus  
D:-Extensor Pollicis Longus  
Correct Answer:- Option-C

Question94:-The acceptable residual angulation in metaphyseal fractures in the sagittal plane in girls aged 9-11 years is

A:-10 deg  
B:-15 deg  
C:-5 deg  
D:-20 deg  
Correct Answer:- Option-A

Question95:-Unicameral bone cysts are considered 'active' if they have the following features, except

A:-Thick membrane  
B:-Single cavity  
C:-Children < 12 years  
D:-Intralesional pressure > 30 cm H<sub>2</sub>O  
Correct Answer:- Option-A

Question96:-The following are usually involve the posterior elements of the vertebra, except

A:-Aneurysmal Bone Cyst  
B:-Osteoid Osteoma  
C:-Giant Cell Tumour  
D:-Osteochondroma  
Correct Answer:- Option-C

Question97:-The peak age in years, for pathologic fracture for Chondroblastoma is

A:-0 - 5

B:-5 - 10

C:-10 - 20

D:-20 - 30

Correct Answer:- Option-C

Question98:-In Glasgow coma scale, "Eye opening :To speech" has a score of

A:-2

B:-4

C:-1

D:-3

Correct Answer:- Option-D

Question99:-The dosing schedule of Naproxen (oral) in children is

A:-5-10 mg/kg q 6h

B:-10-15 mg/kg q 6h

C:-5-7.5 mg/kg q 12h

D:-15 mg/kg q 6h

Correct Answer:- Option-C

Question100:-The following is true of Rhabdomyosarcoma, except

A:-occurs exclusively in striated muscles

B:-Tumour giant cells are seen

C:-Cell usually have cross striations

D:-Greatest incidence is between 30-60 years of age

Correct Answer:- Option-A