FINAL ANSWER KEY

Question Paper Code: 25/2018/OL Category Code: 199/2017

Exam: Sr Lecturer in Radiodiagnosis NCA

Medium of Question:EnglishDate of Test03-05-2018DepartmentMedical Education

Alphacode A

Question1:-According to which Article, the executive power of the Union is vested in the President of India.

A:-Article 64

B:-Article 63

C:-Article 52

D:-Article 53

Correct Answer:- Option-D

Question2:-'To defend the country and render national service when called up on to do so' is a fundamental duty. Which is the Article?

A:-Article 51 A(d)

B:-Article 51 A(b)

C:-Article 51 A(c)

D:-Article 51 A(e)

Correct Answer:- Option-A

Question3:-In which schedule of the Constitution deals with Union List, State List and Concurrent List?

A:-Tenth Schedule

B:-Seventh Schedule

C:-Sixth Schedule

D:-Ninth Schedule

Correct Answer:- Option-B

Question4:-Which Article is related to Grama Sabha?

A:-Article 243 C

B:-Article 243 B

C:-Article 243 A

D:-Article 243 D

Correct Answer:- Option-C

Question5:-Article 29 and 30 deals with

A:-Right to Life and Liberty

B:-Religious Freedom

C:-Cultural and Educational Rights

D:-Right against Exploitation

Correct Answer:- Option-C

Question6:-'Duty of the Union to protect States against external aggression and internal disturbance'. Which Article is related with this provision?

A:-Article 354

B:-Article 355

C:-Article 356

D:-Article 357

Correct Answer:- Option-B

Question7:-'Mission Indradhanush' launched by the Govt. of India pertains to

A:-New Education Policy

B:-Construction of Smart Cities across the country

C:-India's own search for the Earth like Planets in outer Planets

D:-Immunization of children and pregnant women

Correct Answer:- Option-D

Question8:-Help Line 'Udyami' is meant for

A:-Micro, small and medium enterprises

B:-Large capital Industries

C:-Female entrepreneurs

D:-Farmers using Technology in Farming

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Correct Answer: - Option-A
Question9:-Maximum age for joining Atal Pension Yojana is
    A:-60 years
    B:-50 years
    C:-40 years
    D:-70 years
    Correct Answer:- Option-C
Question10:-Which State Govt. has launched Mahatma Gandhi Sarbat Vikas Yojana (MGSVY) for distressed Sections?
    A:-Punjab
    B:-Karnataka
    C:-Meghalaya
    D:-Kerala
    Correct Answer: - Option-A
Question11:-Sahodara Sangam was founded at
    A:-Kodugallur
    B:-Kottayam
    C:-Thrissur
    D:-Cherai
    Correct Answer:- Option-D
Question12:-The Organisation called 'Samyuktha Rashtriya Samiti' was formed in connection with
    A:-Aikya Kerala Movement
    B:-Abstention Movement
    C:-Guruvayur Satyagraha
    D:-Vaikom Satyagraha
    Correct Answer:- Option-B
Question13:-Who wrote the famous work 'Jathikummi'?
    A:-Kelappan
    B:-EMS
    C:-Pandit Karuppan
    D:-O.N.V. Kurup
    Correct Answer:- Option-C
Question14:-Arrange the following events in chronological order.
1. Temple Entry Proclamation
2. Vaikom Satyagraha
3. Shanar Agitation
4. Paliyam Satyagraha
    A:-(3, 2, 1, 4)
    B:-(4, 2, 3, 1)
    C:-(2, 4, 1, 3)
    D:-(1, 3, 4, 2)
    Correct Answer:- Option-A
Question15:-Indicate the wrong pair among them.
    A:-E. M. Sankaran Namboothiripad - Onnekal kodi Malayalikal
    B:-V.T. Bhattathirippad - Kanneerum Kinavm
    C:-Vaghbhatananda
                                     - Abhinaya Keralam
                                    - Darsanamala
    D:-Vaikunda Swamikal
    Correct Answer:- Option-D
Question16:-Who among the following become the recipients of Padma Vibhushan in the year 2018?
    A:-Philipose Mar Chrysostom
    B:-Ghulam Mustafa Khan
    C:-Aravind Parikh
    D:-Mahendra Singh Dhoni
    Correct Answer:- Option-B
Question17:-Shakespeare Beach is located in which country?
    A:-France
    B:-Canada
    C:-Italy
    D:-England
    Correct Answer:- Option-D
Question18:-The 2018 National Girl Child Day (NGCD) is celebrated on which date in India?
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A:-January 24
     B:-January 25
     C:-January 23
     D:-January 26
     Correct Answer: - Option-A
Question19:-Gadgil Committee Report and Kasturirangan Committee Report are related to
     A:-Constitutional Reforms
     B:-Protection of Western Ghats
     C:-Ganga Action Plan
     D:-Linking of Rivers
     Correct Answer:- Option-B
Question 20:-In which year, United Nations General Assembly voted to establish `2^(nd)` October as the International Day of
Non-Violence?
    A:-2005
     B:-2003
     C:-2007
     D:-2009
     Correct Answer:- Option-C
Question21:-Compared with SE, GRE sequences use
     A:-Longer TR and longer TE
     B:-Shorter TR and long TE
     C:-Longer TR and shorter TE
     D:-Shorter TR and shorter TE
     Correct Answer:- Option-D
Question22:-Echo planar imaging forms echoes using
     A:-Successive 90-degree pulses
     B:-Successive alternating 90-degree pulses
     C:-Successive180 degree pulses
     D:-Successive alternating gradients
     Correct Answer:- Option-D
Question23:-Lingula of lung is best seen in which X-ray view?
     A:-Lordotic
     B:-Apical
     C:-Left lateral decubitus
     D:-Right lateral decubitus
     Correct Answer: - Option-A
Question24:-Most signal in K space is present
     A:-In the center
     B:-In the periphery
     C:-Along the frequency encoding axis
     D:-Along gradient encoding axis
     Correct Answer: - Option-A
Question25:-In order to decrease dose in large patients
     A:-Decrease kV and improve image noise
     B:-Increase kV and improve image noise
     C:-Increase in KV and improve in contrast
     D:-Decrease in KV and improve in contrast
     Correct Answer:- Option-B
Question26:-Penumonia alba is seen in
     A:-Congenital TB
     B:-Congenital malaria
     C:-Neonatal HIV
     D:-Congenital syphilis
     Correct Answer:- Option-D
Question27:-The diagnosis of necrotizing entero colitis is best made by
     A:-Plain radiograph of abdomen
     B:-Barium enema
     C:-USG
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D:-None of the above

Correct Answer: - Option-A Question28:-Which of the following is false? A:-Calcification is present in 10% with Wilms tumor B:-Calcification is present in 50% of neuroblastoma C:-Stage IV-S neuroblastoma has a very bad prognosis D:-Bilateral Wilms tumor is stage V tumor Correct Answer:- Option-C Question29:-The earliest radiologic sign of mitral stenosis is A:-Straightening of left border of cardiac silhouette B:-Upper lobe pulmonary veins are congested and prominent C:-"Inverted moustache sign" D:-kerley B lines Correct Answer:- Option-B Question30:-Pneumothorax is common with pneumonia caused by A:-Streptococcus B:-Pneumocystis carinii C:-Staphylococcus aureus D:-H. influenzae Correct Answer:- Option-B Question31:-In x-ray imaging, noise is determined by A:-Energy of x-rays hitting the detector B:-Number of x-rays hitting the detector C:-Tissue contrast D:-Amount of scatter hitting the detector Correct Answer:- Option-B Question32:-Which of the following numbers reported by the scanner best reflects the total amount of radiation delivered to the patient A:-Dose B:-CT Dose Index (CTDI) C:-Pitch D:-Dose-length product (DLP) Correct Answer:- Option-D Question33:-The following term refers to a measure designed to reflect stochastic (cancer) risk from radiation A:-Dose B:-CT Dose Index (CTDI) C:-Average dose D:-Effective dose Correct Answer:- Option-D Question34:-Automated exposure compensation uses the topogram (or scout) image to determine A:-Tube current (mA) B:-Pitch C:-Reconstruction filter D:-Bowtie filter Correct Answer: - Option-A Question35:-lodine is a good CT contrast agent because A:-We can achieve very high concentrations in target organs B:-The k-edge (33 keV) is much lower than x-ray energies produced by a 120 kV tube C:-The k-edge (33 keV) is near the average diagnostic x-ray energy produced by a 120 kV tube D:-It simulates the attenuation of bone Correct Answer:- Option-C Question36:-First X ray sign in pulmonary thromboembolism

Question37:-Atoll sign is seen A:-Tuberculosis

A:-Wester mark sign

Correct Answer: - Option-A

B:-Palla sign C:-Fleischner sign D:-Knuckle sign

B:-Cryptogenic organising pneumonia

C:-Aspergillosis

D:-Pneumocystis carini pneuomonia

Correct Answer:- Option-B

Question38:-All the statements regarding shoulder radiography is true except

A:-In AP view with neutral rotation both greater and lesser tuberosities are super imposed

B:-In Grasheys projection there is more overlap of gleniod than AP projection

C:-AP oblique view rotate the body 35-45 degree

D:-In Y view humeral head should super impose over the base of Y if not dislocated

Correct Answer:- Option-B

Question39:-All are features of cardiomegaly except

A:-CTR > 50% in PA chest

B:-CTR > 60% in AP chest

C:-Cardiac diameter > 15.5 cm

D:-1.5 times increase in diameter in serial X rays

Correct Answer:- Option-A

Question40:-Most anterior ethmiod air cell is

A:-Haller cell

B:-Onodi cell

C:-Agger nasi cell

D:-Concha bullosa

Correct Answer:- Option-C

Question41:-Dentigerous cyst false statement is

A:-Seen in adolescent age

B:-Unilocularcyst

C:-Replaces tooth

D:-Seen in old age

Correct Answer:- Option-D

Question42:-In Film processing - fixing, all are true except

A:-Made of hypo/ammonium thiosulphate

B:-Preservative for developer and fixer is same

C:-Hardening agent harden and shrinks gelatin in the film emulsion to prevent its reduction

D:-Acidifier neutralizes alkaline developer

Correct Answer:- Option-C

Question43:-TLD false statement is

A:-Active radiation detection device

B:-Disc are made of calcium SO4

C:-Lower filter is kept open

D:-Measures doses between 0.01-10.4 mGy

Correct Answer: - Option-A

Question44:-Regarding dark room false statement

A:-White/light colour paint on walls

B:-Lead equivalent of 2 mm in walls

C:-Ideal flooring with ceramic tile

D:-For safe light, bulb of 50 W is used

Correct Answer:- Option-D

Question45:-Fluid colour sign in USG seen in

A:-Pleural plaque

B:-Pleural effusion

C:-Hemangioma

D:-Lymphovenous malformation

Correct Answer:- Option-B

Question46:-In lateral view chest X ray

A:-Left hemidiaphragm lower than right

B:-Right hemidiaphragm lower than left

C:-Right dome is fully traceable

D:-Dome closer to film is lower

Correct Answer:- Option-A

Question47:-Lung volume is maintained in

A:-UIP

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B:-NSIP
     C:-NF1
     D:-DIP
     Correct Answer:- Option-C
Question48:-Patchy ground glass opacities with peripheral perivascular cyst seen in
    A:-DIP
    B:-RB ILD
     C:-LIP
     D:-NSIP
     Correct Answer:- Option-C
Question49:-All are features of air space opacity except
     A:-Air bronchogram
     B:-Silhouette sign
     C:-Preserved volume
     D:-Reticular shadow
     Correct Answer:- Option-D
Question50:-Regarding cystic adenamatiod malformation false statement is
     A:-Spontaneous resolution can occur
     B:-Type 3 is solid mass
     C:-Type 2 shows uniform cyst of size < 2 cm
     D:-Type 1 shows micro cyst
     Correct Answer:- Option-D
Question51:-True in pneumothorax
     A:-Sea shore sign
     B:-Bar code sign
     C:-Lung slide
     D:-Prominent B pattern
     Correct Answer:- Option-B
Question52:-KVP for high KV chest X RAY
     A:-60
     B:-90
     C:-120
     D:-150
    Correct Answer:- Option-C
Question53:-Maximum permissible radiation in a pregnancy
    A:-0.1 msv
     B:-1 msv
     C:-10 msv
     D:-100 msv
     Correct Answer:- Option-B
Question54:-Para pharyngeal space false statement
     A:-Superior margin is skull base
     B:-Inferior margin is C7 vertebra
     C:-Contains fat and internal maxillary artery
     D:-Located anterior to pre vertebral space
     Correct Answer:- Option-B
Question55:-Left hilum is
     A:-Higher level than right
     B:-Lower level than right
     C:-Denser than right
     D:-Lucent than right
     Correct Answer:- Option-A
Question56:-Carciniod tumour of lung false statement
     A:-Well defined hilar mass
     B:-Eccenric calcification common
     C:-Atypical carciniods are hypovascular
     D:-Typical carciniods are hyper vascular
     Correct Answer:- Option-C
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Question57:-Small bowel true statement is

- A:-Presence of haustra B:-Presence of Valvulae C:-Presence of fecus D:-Peripheral location Correct Answer:- Option-B
- Question58:-Carcinoma rectum true is statement
 - A:-T 2 Tumour extend beyond rectal wall
 - B:-Mesorectal fascia positive tumour are candidates for total mesoretal excision
 - C:-TRUS is the choice between T3 and T4 tumours
 - D:-Mesorectal fascia (MRF) involvement means tumour within 1 mm of MRF
 - Correct Answer:- Option-D
- Question59:-Beaded appearance seen in MRCP in all except
 - A:-HIV cholangiopathy
 - B:-Metastasis
 - C:-Hilarcholangiocarcinoma
 - D:-Primary sclerosing cholangitis
 - Correct Answer:- Option-C
- Question60:-Treatment option for HCC with right branch of portal vein involvement
 - A:-Surgery
 - B:-RFA
 - C:-TARE
 - D:-TACE
 - Correct Answer:- Option-C
- Question61:-BMFT contraindicated in
 - A:-Large bowel obstruction
 - B:-Small bowel obstruction
 - C:-Ulcerative colitis
 - D:-Crohns disease
 - Correct Answer: Option-A
- Question62:-Features of malignant gastric ulcer
 - A:-Hamptons line
 - B:-Extending outside the lumen
 - C:-Smooth margin
 - D:-Thick mucosal fold
 - Correct Answer:- Option-D
- Question63:-All are true regarding paediatric liver lesions except
 - A:-Hepatoblastoma may be associated with familial adenomatoum polyposis
 - B:-Hemangio endothelioma may show narrow infra renal aorta
 - C:-Mesenchymal hemartoma may present antenatally as hydrops fetalis
 - D:-Von meyenburg complex shows multiple moderate size liver cyst
 - Correct Answer:- Option-D
- Question64:-Regarding chronic calcific pancreatitis true statement is
 - A:-Pancreatic duct shows smooth dilatation
 - B:-Chunky calcification in groove pancreatitis
 - C:-Central luceny of calculus in hereditary pancreatitis
 - D:-Duct penetrance sign is an indicator of inflammatory mass
 - Correct Answer:- Option-C
- Question65:-Primary CNS vasculitis all are true statement except
 - A:-Common in female
 - B:-Calabresa's criteria for clinical diagnosis
 - C:-DSA shows focal/diffuse narrowing of small vessels
 - D:-Meningeal enhancement may be seen
 - Correct Answer: Option-A
- Ouestion66:-True about dementia
 - A:-Temporal lobe involvement seen in pre senile Alziemers disease
 - B:-Temporal lobe involvement in CADASIL
 - C:-Inferior frontal lobe involvement seen in strategic infarcts
 - D:-Symmetric parietal atrophy in coticobasilar degeneration
 - Correct Answer:- Option-B

Ouestion67:-True statement in CNS abscess A:-Diffusion restriction of wall in bacterial abscess B:-Succinate peak in tuberculous abscess C:-Diffusion restriction of center in fungal D:-Diffusion restriction of wall in fungal Correct Answer:- Option-D Question68:-Cather used for cerebral angiogram in case of bovine arch A:-Head hunter B:-Manis C:-Vertebral D:-JUDKINS Correct Answer:- Option-B Question69:-Diffusion restriction is seen in A:-Arachniod cyst B:-Neuroglial cyst C:-Ependymal cyst D:-Epidermiod cyst Correct Answer:- Option-D Question70:-Spinal cord ependymoma false statement A:-More central B:-Hemorrhage is common C:-Eccentric location D:-More enhancing Correct Answer:- Option-C Question71:-Hyperostosis frontalis interna false statement is A:-Bilateral symmetric B:-Can involve parietal lobe C:-Inner table thickening D:-Inner and outer table thickening Correct Answer:- Option-D Question72:-Normal basal angle A:-125-145 B:-100-125 C:-90-115 D:-150-175 Correct Answer:- Option-A Question73:-Inner ear abnormality that can result in insult at `4^(th)` week of gestation A:-Michel deformity B:-Mondini deformity C:-Cochlear aplasia D:-Common cavity malformation Correct Answer:- Option-C Question74:-11-14 weeks scan A:-is done when CRL > 50 mm B:-is done when CRL > 45 mm C:-NT > 2 is abnormal D:-Done during fetal flexion Correct Answer:- Option-B Question75:-Indications for fetal echocardiography are except A:-Pre gestational diabetes B:-Diabetes diagnosed in first trimester C:-Paternal cardiac disease D:-Diabetes with HBA1C < 6% Correct Answer:- Option-D Question76:-In adenomyosis all are true except A:-Subendometrial cyst B:-Subendometrial echogenic nodule

C:-Thickened transitional zone

D:-Diverticula extending to endometrium is HSG

Correct Answer:- Option-D Question77:-Septate uterus false statement is A:-Fundal contour may be normal B:-MRI is the modality of choice C:-Angle between cavity is < 75% D:-Angle between cavity is 75-125% Correct Answer:- Option-D Question 78:- Following refers to structural reporting system except A:-BIRAD-Breast B:-TIRADS-Thyroid C:-LIRADS-Lung D:-PIRADS-Prostate Correct Answer:- Option-C Question79:-All are true in prostate except

A:-Citrate is increased in MRS in malignant tissue

B:-Peripheral zone is hyper intense in T2 MRI

C:-Peripheral zone is hyperechioc in TRUS

D:-Obliteration of recto prostatic angle is a sign of extra capsular extension

Correct Answer: - Option-A

Question80:-Erectile dysfunction false statement is

A:-Angiography is gold standards for arterial impotence

B:-Penile Doppler is done with intra cavernosal papaverine injection

C:-PSV < 30 cm/s indicates arterial insufficiency

D:-EDV<5 cm/s indicates venous insufficiency

Correct Answer:- Option-D

Question81:-Pro peritoneal fat plane is

A:-Displaced in retroperitoneal lesion

B:-Obliterated in retroperitoneal lesion

C:-Unaffected in retroperitoneal lesion

D:-Better visualised in retroperitoneal lesion

Correct Answer: - Option-A

Question82:-All are features of acute urinary obstruction except

A:-Delayed dense nephrogram

B:-Pyelotubular back flow

C:-Moderate hydronephrosis

D:-Modest renal enlargement

Correct Answer:- Option-C

Question83:-DWI can be negative in all except

A:-Brain stem infarct

B:-Corona radiate infarct

C:-Deep grey matter nuclei infarct

D:-When cerebral flow is in range of only electrical activity

Correct Answer:- Option-B

Question84:-First ventricle is

A:-Right lateral ventricle

B:-Left lateral ventricle

C:-Foramen munro

D:-Foramen lushka

Correct Answer:- Option-B

Question85:-Cobble stone appearance in MRI brain seen in all except

A:-Walker Warburg syndrome

B:-Fukayama dystrophy

C:-Muscle eye brain disease

D:-Rett syndrome

Correct Answer:- Option-D

Question86:-Relative percentage signal recovery (r PSR) is minimum for

A:-Gliosarcoma

B:-Epitheliodglioblastoma

C:-Lymphoma

D:-Oligodendroglioma IDH mutant Correct Answer:- Option-D Question87:-One excluded in WHO 2016 brain tumor classification A:-Glioblastoma B:-Gliosarcoma C:-Gemistocytic astrocytoma D:-Protoplamic astrocytoma Correct Answer:- Option-D Question88:-Inferior wall of third ventricle formed by all except A:-Mammillary body B:-Optic chiasm C:-Tuber cinerum D:-Habenular commissure Correct Answer:- Option-D Question89:-T1 hyper intensity seen in all except A:-Hyper acute blood B:-Sub acute blood C:-Melanin D:-Fat Correct Answer:- Option-A Question90:-Temporal lobe cyst seen all except A:-Aicardi syndrome B:-Vander Knapp disease C:-Congenital rubella D:-Batten's disease Correct Answer:- Option-D Question91:-Tumoral calcinosis all are true except A:-Associated with hypercalcemia B:-More in blacks C:-Central lucency may be seen D:-Extensor aspect of joint Correct Answer:- Option-A Question92:-False statement about myositis ossificans A:-Peripheral calcification B:-Decrease in size with disease progression C:-Edema in subacute phase D:-Peripheral fat in MRI

Correct Answer:- Option-D

Question93:-All are seen in pyknodysostosis except

A:-Medullary sparing

B:-Mandibular changes

C:-Acro-osteolysis

D:-Hepatsplenomegaly

Correct Answer:- Option-D

Question94:-Features of Morqio disease except

A:-Platyspondyly

B:-Inferior vertebral body beaking

C:-Epiphyseal changes

D:-Oar shaped ribs

Correct Answer:- Option-B

Question95:-Caffeys syndrome is associated with

A:-Corner fracture

B:-Green stick fracture

C:-Loozers zone

D:-Epiphyseal fracture

Correct Answer:- Option-A

Question96:-Hamman's sign is seen in

A:-Hamman Rich syndrome

B:-Alpha 1 anti-trypsin deficiency

C:-Miliary TB

D:-Pneumomediastinum

Correct Answer:- Option-D

Question97:-Wormian bones are seen in all of the following except

A:-Some normal children

B:-Osteogenesis imperfecta

C:-Cleido cranial dysostosis

D:-Congenital rubella syndrome

Correct Answer:- Option-D

Question98:-Posterior iliac horns are seen in

A:-Pena Shokeir syndrome

B:-Crouzon syndrome

C:-Nail patella syndrome

D:-Pierre Robin syndrome

Correct Answer:- Option-C

Question99:-'Banana sign' in the fetal brain suggests

A:-Spina bifida

B:-Renal agenesis

C:-Encephalocoele

D:-Porencephaly

Correct Answer:- Option-A

Question100:-A metacarpal index of 8.4 is suggestive of

A:-Turner syndrome

B:-Noonan syndrome

C:-Klinefelter syndrome

D:-Marfan syndrome

Correct Answer:- Option-D