

## FINAL ANSWER KEY

Question 73/2023/OL

Paper Code:

Category 331/2022

Code:

Exam: Assistant Professor Oral Pathology and Microbiology

Date of Test 08-06-2023

Department Medical Education

Question1:-"Coup de sabre" appearance is seen in

A:-Pierre Robbins Syndrome

B:-Parry Romberg Syndrome

C:-Crouzon's Syndrome

D:-Treacher Collins Syndrome

Correct Answer:- Option-B

Question2:-Capdepont teeth are a characteristic of

A:-Dentin dysplasia

B:-Dentinogenesis imperfecta

C:-Amelogenesis imperfecta

D:-Regional odontodysplasia

Correct Answer:- Option-B

Question3:-Hecks Disease is caused by

A:-HPV 13 and 32

B:-HPV 13 and 33

C:-HPV 6 and 11

D:-HPV 9 and 11

Correct Answer:- Option-A

Question4:-Omphalocele is associated with

A:-Aschers syndrome

B:-Klinefelters syndrome

C:-Beckwith Weidman's Syndrome

D:-Klippel Trenauney Syndrome

Correct Answer:- Option-C

Question5:-Congenital condylar hypoplasia is seen in all of the following Except

A:-Mandibulo facial dysostosis

B:-Hemifacial microsomia

C:-Oculo auriculovertebral syndrome

D:-Facial hemiatrophy

Correct Answer:- Option-D

Question6:-'Tumor droplets' are found in

A:-Primordial odontogenic tumor

B:-Calcifying epithelial odontogenic tumor

C:-Adenomatoid odontogenic tumor

D:-Squamous odontogenic tumor

Correct Answer:- Option-C

Question7:-The first completely documented case of peripheral Ameloblastoma was described by

A:-Stanley and Krogh

B:-Slootweg and Miller

C:-Waldron and Mustoe

D:-Reichart and Philipsen

Correct Answer:- Option-A

Question8:-Epithelial and mesenchymal components show cytologic features of malignancy in

A:-Ameloblastic fibrosarcoma

B:-Ameloblastic carcinoma

C:-Odontogenic carcinosarcoma

D:-Ameloblastic fibrodentino sarcoma

Correct Answer:- Option-C

Question9:-Ackerman's classification is related to

A:-Primary intraosseous carcinoma

B:-Verrucous carcinoma

C:-Squamous cell carcinoma

D:-Unicystic Ameloblastoma

Correct Answer:- Option-D

Question10:-"Tennis racquet" pattern is observed in the radiographs in

A:-Odontogenic myxoma

B:-Ameloblastoma

C:-Fibrous dysplasia

D:-Paget's disease

Correct Answer:- Option-A

Question11:-EWSR-1 mutations are found in approximately 80% of

A:-Ameloblastic carcinoma

B:-Clear cell odontogenic carcinoma

C:-Primary intraosseous carcinoma

D:-Mucoepidermoid carcinoma

Correct Answer:- Option-B

Question12:-Sonic hedge hog mutations are implied in the pathogenesis of

A:-Ameloblastoma

B:-Odontogenic keratocyst

C:-Adenomatoid Odontogenic tumor

D:-Calcifying odontogenic cyst

Correct Answer:-**Question Cancelled**

Question13:-The most common non-odontogenic cyst among the following is

A:-Median palatal cyst

B:-Nasopalatine duct cyst

C:-Nasolabial cyst

D:-Dermoid cyst

Correct Answer:- Option-B

Question14:-Ehlers Danlos syndrome is caused due to mutations in collagen

A:-Type I, III, IV

B:-Type I, III, VII

C:-Type I, II, V

D:-Type I, III, V

Correct Answer:- Option-D

Question15:-Non specific mechanism in the pathogenesis of Lichen Planus include all of the following Except

A:-Keratinocyte apoptosis

B:-Mast cell degranulation

C:-MMP activation

D:-TGF mediated immune suppression

Correct Answer:- Option-A

Question16:-"Cell - with in - a cell" phenomenon is found in

A:-Dyskeratosis congenita

B:-Hereditary benign intra epithelial dyskeratosis

C:-Keratosis follicularis

D:-Xeroderma Pigmentosum

Correct Answer:- Option-B

Question17:-Direct immunofluorescence in paraneoplastic pemphigus shows

A:-Positive immunofluorescence - intercellular only

B:-Positive immunofluorescence - intercellular and basement membrane zone

C:-Positive immunofluorescence - basement membrane zone only

D:-Negative immunofluorescence

Correct Answer:- Option-B

Question18:-Libman - Sacks endocarditis is associated with

A:-Systemic Lupus Erythmatosus

B:-Sarcoidosis

C:-Crohns Disease

D:-Wegener's Granulomatosis

Correct Answer:- Option-A

Question19:-Di George syndrome is associated with

A:-Hyperthyroidism

B:-Hypothyroidism

C:-Hyperparathyroidism

D:-Hypoparathyroidism

Correct Answer:- Option-D

Question20:-Loss of fungiform and filiform papillae are seen in

A:-Niacin deficiency

B:-Folic acid deficiency

C:-Riboflavin deficiency

D:-Thiamine deficiency

Correct Answer:-**Question Cancelled**

Question21:-Myasthenia Gravis manifestations include all of the following Except

A:-Diplopia

B:-Dysphagia

C:-Dysphonia

D:-Dysarthria

Correct Answer:- Option-C

Question22:-A 40 year old woman complains of unilateral pain in the orbital and temporal area, watering of eyes and nasal congestion. These symptoms are suggestive of a diagnosis of

A:-Trigeminal neuralgia

B:-Sphenopalatine neuralgia

C:-Glossopharyngeal Neuralgia

D:-Bell's Palsy

Correct Answer:- Option-B

Question23:-Progeria is an

A:-Autosomal recessive disorder

B:-Autosomal dominant disorder

C:-X-linked recessive disorder

D:-None of the above

Correct Answer:- **Question Cancelled**

Question24:-"Mitten like hand" and "Sock feet" are characteristic of

A:-Apert Syndrome

B:-Ellis Van Creveld Syndrome

C:-Trichodonto Osseous Syndrome

D:-Goldenhar Syndrome

Correct Answer:- Option-A

Question25:-Howell - Jolly bodies are found in the peripheral smears of

A:-Thalassemia

B:-Iron deficiency anemia

C:-Sickle cell anemia

D:-Aplastic anemia

Correct Answer:- Option-C

Question26:-Streptococcus mutans are:

A:-Aerobic, catalase, negative, gram-positive cocci

B:-Facultative anaerobic, catalase positive, gram positive cocci

C:-Facultative anaerobic, catalase negative, gram positive cocci

D:-Anaerobic, catalase positive, gram positive cocci

Correct Answer:- Option-C

Question27:-Extracellular polymer found in culture of streptococcus mutans which might contribute to adhesiveness of bacteria:

A:-Lipoteichoic acid

B:-Fructans

C:-Glucans

D:-Levans

Correct Answer:- Option-A

Question28:-The pK value of bicarbonate carbonic acid buffer of oral mucosa is:

A:-6.0

B:-6.1

C:-6.2

D:-6.4

Correct Answer:- Option-B

Question29:-Vesicle with a zone of erythema giving "a dew drop on a rose petal appearance" seen in

A:-Primary herpetic stomatitis

B:-Chicken pox

C:-Herpes zoster

D:-Infectious mononucleosis

Correct Answer:-**Question Cancelled**

Question30:-Lesion strongly associated with HIV infections:

A:-Mycobacterium tuberculosis

B:-Recurrent aphthous stomatitis

C:-Necrotizing ulcerative stomatitis

D:-Non-Hodgkin lymphoma

Correct Answer:- Option-D

Question31:-The protective protein absent in patients with xerostomia predisposing to candidiasis:

A:-Calretinin

B:-Transferrin

C:-Lactoferrin

D:-Histatin

Correct Answer:- Option-D

Question32:-Lues maligna is an explosive and widespread form of:

A:-Primary syphilis

B:-Secondary syphilis

C:-Tertiary syphilis

D:-Congenital syphilis

Correct Answer:- Option-B

Question33:-Retrograde sialadenitis is known as:

A:-Surgical mumps

B:-Chemical mumps

C:-Nutritional mumps

D:-Mikulicz disease

Correct Answer:- Option-A

Question34:-Localised aggressive periodontitis is primarily associated with:

A:-Porphyromonas gingivalis

B:-Prevotella intermedia

C:-Fusobacterium nucleatum

D:-A. actinomycetemcomitans

Correct Answer:- Option-D

Question35:-Drug showing strong association with gingival hyperplasia:

A:-Amlodipine

B:-Nifedipine

C:-Verapamil

D:-Diltiazem

Correct Answer:- Option-B

Question36:-Papillon Lefevre syndrome is associated with loss of function of:

A:-Cathepsin A gene

B:-Cathepsin B gene

C:-Cathepsin C gene

D:-Cathepsin D gene

Correct Answer:- Option-C

Question37:-Dysplastic lesion which shows increased progression risk are:

A:-Diploid dysplastic lesions

B:-Tetraploid dysplastic lesions

C:-Aneuploid dysplastic lesions

D:-Progression risk does not depend on ploidy status

Correct Answer:- Option-C

Question38:-The putative pleomorphic adenoma gene has been mapped to chromosomes:

A:-8q12

B:-7q12

C:-13q8

D:-5q17

Correct Answer:- Option-A

Question39:-Keratoacanthoma occurs more commonly

A:-More in males with darker skin

B:-More common in female with darker skin

C:-More common in male with fair skin

D:-More common in female with fair skin

Correct Answer:- Option-C

Question40:-Lisch nodules are seen in:

A:-Canalicular adenoma

B:-Fibrous dysplasia

C:-Clear cell oncocytoma

D:-Neurofibromatosis

Correct Answer:- Option-D

Question41:-The granular cells in granular cell tumor are

A:-S100 and NSE positive and GFAP positive

B:-S100 and NSE positive and GFAP negative

C:-S100, NSE and GFAP positive

D:-S100, NSE and GFAP negative

Correct Answer:- Option-B

Question42:-The emergence or eruption of odontoma in the oral cavity is attributable to:

A:-Vascular pressure

B:-PDL traction

C:-Intrinsic enlargement of the lesion

D:-Root growth

Correct Answer:- Option-C

Question43:-The common pattern of distribution and appearance of giant cells in Giant cell tumour of bone is:

A:-Scattered uniformly throughout the lesion and have 40 to 60 nuclei.

B:-Seen concentrated in the central part of the lesion and have 4-6 nuclei.

C:-Seen only in periphery of the lesion and have 4-6 nuclei.

D:-Seen on clumps of cells in focal areas and have 5 to 6 nuclei.

Correct Answer:- Option-A

Question44:-Goldenhar syndrome is also known as:

A:-Hereditary enamel dysplasia

B:-Cleidocranial dysplasia

C:-Hereditary dysplasia

D:-Oculoauriculovertebral dysplasia

Correct Answer:- Option-D

Question45:-Cluster of lightly basophilic particles present in association with plasmocytic infiltrate in a periapical granuloma are called:

A:-Russell bodies

B:-Pyronin bodies

C:-Negri bodies

D:-Basilaz bodies



Correct Answer:- Option-B

Question46:-A syndrome associated with gingival fibromatosis:

A:-Costello syndrome

B:-Carotid artery syndrome

C:-Ramsay hunt syndrome

D:-Stylohyoid syndrome

Correct Answer:- Option-A

Question47:-Downward extension of retropharyngeal space infection will result in:

A:-Sialadenitis

B:-Mediastinitis

C:-Eye infection

D:-Upper lip infection

Correct Answer:- Option-B

Question48:-Most susceptible permanent tooth for dental caries:

A:-Maxillary first molar

B:-Maxillary second molar

C:-Mandibular first molar

D:-Mandibular second molar

Correct Answer:- Option-C

Question49:-In enamel caries the dark zone shows a pore volume of:

A:-2-4%

B:-Less than 1%

C:-15%

D:-10%

Correct Answer:- Option-A

Question50:-Osteocalcin expression by odontoblasts is higher in:

A:-Reversible pulpitis

B:-Irreversible pulpitis

C:-Same in both

D:-Chronic hyperplastic pulpitis

Correct Answer:- Option-A

Question51:-Which of the following is not a tumour suppressor gene

A:-P53

B:-CD 95

C:-RAS

D:-PTEN

Correct Answer:- Option-C

Question52:-Loss of which of the following protein is implicated in aiding metastasis of tumour cells

A:-Integrins

B:-Cadherins

C:-Matrix metallo proteinases

D:-Cathepsin

Correct Answer:- Option-B

Question53:-All of the following viruses have been implicated in causation of hemato lymphoid neoplasm except

A:-EBV

B:-CMV

C:-HHV8

D:-HTLV

Correct Answer:- Option-B

Question54:-Angiogenesis is stimulated by all of the following except

A:-RAS

B:-MYC

C:-P53

D:-MAPK

Correct Answer:- Option-C

Question55:-Burkitt lymphoma is positive for

A:-CD5

B:-CD15

C:-CD20

D:-CD25

Correct Answer:- Option-C

Question56:-"Popcorn cells" are seen in which variant of Hodgkins disease?

A:-Nodular sclerosis

B:-Mixed cellularity

C:-Lymphocyte predominant

D:-Lymphocyte depletion

Correct Answer:- Option-C

Question57:-Caspase in dependent programmed cell death is

A:-Necrosis

B:-Necroptosis

C:-Apoptosis

D:-Pyroptosis

Correct Answer:-**Question Cancelled**

Question58:-All are markers for malignant melanoma except

A:-HMB 45

B:-SOX11

C:-MART

D:-SOX10

Correct Answer:- Option-B

Question59:-A simple bacterial test for mutagenic carcinogens is

A:-Redox test

B:-Ames test

C:-Bacteriophage

D:-Gene splicing

Correct Answer:- Option-B

Question60:-Spindle cell carcinoma is a variant of

A:-Adenoid cystic carcinoma

B:-Basal cell carcinoma

C:-Squamous cell carcinoma

D:-Pleomorphic adenoma

Correct Answer:- Option-C

Question61:-Mammary analogue secretory carcinoma commonly occurs in

A:-Parotid gland

B:-Submandibular gland

C:-Sublingual gland

D:-Minor salivary glands

Correct Answer:- Option-A

Question62:-E7 protein of high risk HPV affects the following protein there by promotes carcinogenesis

A:-TP53

B:-APC

C:-MDM2

D:-RB

Correct Answer:- Option-D

Question63:-The precancerous lesion with highest malignant potential is

A:-Nicotina palatinus in reverse smoking

B:-Erythroplakia

C:-Actinic cheilosis

D:-PVL

Correct Answer:- Option-D

Question64:-Storiform pattern of fibrous tissue is found in

A:-Fibrosarcoma

B:-Malignant fibrous histiocytoma

C:-Neurofibroma

D:-Ameloblastic fibroma

Correct Answer:- Option-B

Question65:-Most common soft tissue sarcoma of children is

A:-Leiomyosarcoma

B:-Fibrosarcoma

C:-Rhabdomyosarcoma

D:-Ewings sarcoma

Correct Answer:- Option-C

Question66:-Vascular tumour with histopathologic features intermediate between haemangioma and angiosarcoma is

A:-Hemangioepithelioma

B:-Hemangioendothelioma

C:-Ewings sarcoma

D:-Kaposi sarcoma

Correct Answer:- Option-B

Question67:-Which stain is used to stain the smooth muscle in leiomyoma?

A:-Mallory

B:-Van Geison

C:-Masson trichrome

D:-PAS

Correct Answer:- Option-C

Question68:-The most common and serious complication of Neurofibromatosis is

A:-Pheochromocytoma

B:-Wilms tumour

C:-Leukemia

D:-Malignant peripheral nerve sheath tumour

Correct Answer:- Option-D

Question69:-The variants of Kaposi sarcoma are all except

A:-Pleomorphic

B:-Endemic African

C:-Classic

D:-AIDS related

Correct Answer:- Option-A

Question70:-Intraosseous Mucoepidermoid carcinoma is believed to arise from

A:-Rests of Malassez

B:-Rests of serres

C:-Epithelial lining of Odontogenic cysts

D:-De novo from ectopic mucous cells located intra orally.

Correct Answer:- Option-C

Question71:-The colour of Interpol Postmortem Odontograms

A:-Yellow

B:-Green

C:-Pink

D:-Blue

Correct Answer:- Option-C

Question72:-Which of the following is not a method of age estimation in children and adolescents?

A:-Demirjian's method

B:-Schour and Massler's method

C:-Gustafson's method

D:-Nolla's method

Correct Answer:- Option-C

Question73:-Impression material of choice for bite mark analysis?

A:-Hydrocolloids

B:-ZnO Eugenol

C:-Alginate

D:-Light body elastomeric impression material

Correct Answer:- Option-D

Question74:-Continually erupting incisors with diastema between incisors and molars is feature of

A:-Cat family

B:-Bear family

C:-Rat family

D:-Snake family

Correct Answer:- Option-C

Question75:-The science concerned with relationship between human beings, machines and equipments they use and their working environment is called

A:-Ergonomics

B:-Syncronomics

C:-Petronomics

D:-Geonomics

Correct Answer:- Option-A

Question76:-The image formed by the Objective lens of the microscope

A:-Virtual image

B:-Real image

C:-Erect image

D:-Smaller image

Correct Answer:- Option-B

Question77:-The ability of an objective to resolve detail is indicated by its

A:-Magnifying power

B:-Critical illumination

C:-Numerical aperture

D:-Focal length

Correct Answer:- Option-C

Question78:-The property of some substances and crystals to produce plane polarised light by differential absorption is called

A:-Birefringence

B:-Fluorescence

C:-Chemiluminescence

D:-Dichroism

Correct Answer:- Option-D

Question79:- \_\_\_\_\_ is cross-linking interface.

A:-Ethanol

B:-Acetone

C:-Gluderaldehyde

D:-Tricloro Acetic Acid

Correct Answer:- Option-C

Question80:-Formalin is \_\_\_\_\_.

A:-an aqueous solution containing 37-40% formaldehyde

B:-an aqueous solution containing 10% formaldehyde

C:-an aqueous solution containing 50-60% formaldehyde

D:-10% neutral buffered formalin

Correct Answer:- Option-A

Question81:-The correct order of steps in the stages of tissue processing is

A:-Fixation-Dehydration-Cleaning-Infiltration-Embedding

B:-Fixation-Infiltration-Cleaning-Dehydration-Embedding

C:-Fixation-Cleaning-Dehydration-Infiltration-Embedding

D:-Fixation-Infiltration-Dehydration-Cleaning-Embedding

Correct Answer:- Option-A

Question82:-\_\_\_\_\_ is used exclusively as the embedding medium for electron microscopy.

A:-Paraffin wax

B:-Resin

C:-Celloidin

D:-Gelatin

Correct Answer:- Option-B

Question83:-The concept of Tissue Microscopy was first introduced by

A:-Bancroft

B:-Layton

C:-Battifora

D:-Nunn

Correct Answer:- Option-C

Question84:-The specimen is held stationary and the knife slides across the top of the specimen during sectioning in

A:-Rotary Microtome

B:-Sliding Microtome

C:-Base sledge Microtome

D:-Rotary rocking Microtome

Correct Answer:- Option-C

Question85:-Best freezing technique for frozen section preparation is

A:-Liquid Nitrogen at - 19°C

B:-Dry ice (-10°C)

C:-Isopentane and Liquid Nitrogen

D:-Aerosol sprays

Correct Answer:- Option-C

Question86:-\_\_\_\_\_ is a type of Hematoxyline that undergoes natural ripening.

A:-Ehrlich's Hematoxyline

B:-Mayer's Hematoxyline

C:-Harris Hematoxyline

D:-Gill's Hematoxyline

Correct Answer:- Option-A

Question87:-Universal stain for cytological preparation

A:-EA 50

B:-OG 6

C:-Papanicolaou stain

D:-Methylene Blue

Correct Answer:- Option-C

Question88:-Fetal Collagen is

A:-Type V collagen

B:-Type IV collagen

C:-Type I collagen

D:-Type III collagen

Correct Answer:- Option-D

Question89:-In Van Gieson staining technique collagen takes \_\_\_\_\_ colour.

A:-Blue

B:-Yellow

C:-Red

D:-Green

Correct Answer:- Option-C

Question90:-The staining technique used to differentiate neutral mucin from acidic mucin

A:-Alcien blue technique

B:-PAS technique

C:-Combined PAS-Mucicarmine test

D:-Combined Alcien blue-PAS technique

Correct Answer:- Option-D

Question91:-The microscopic technique used for demonstrating amyloid is -

A:-Phase-contrast

B:-Dark field

C:-Polarized

D:-Electron Microscopy

Correct Answer:- Option-C



Question92:-Protein block is added in Immunohistochemistry to

A:-Block endogenous enzymes

B:-As a control

C:-Block background staining

D:-As the primary antibody

Correct Answer:- Option-C

Question93:-Immuno fluorescence test was first described by

A:-Coons

B:-Cary Mullis

C:-Kenfield

D:-Kobler

Correct Answer:- Option-A

Question94:-For Immuno fluorescence biopsy tissue should be transported to laboratory in

A:-Michel transport medium at pH 5.5

B:-Michel transport medium at pH 7

C:-Michel transport medium at pH 7.8

D:-Michel transport medium at pH 8

Correct Answer:- Option-B

Question95:-Most common secondary fixative used for electron microscopy?

A:-Osmium Tetroxide 1%

B:-Zenkers fluid

C:-Gludraldehyde 2.5

D:-Mercuric chloride 3%

Correct Answer:- Option-A

Question96:-The special stain used for the demonstrations of both DNA and RNA

A:-Masson-Fontana

B:-Methyl Green-pyronin test

C:-Perchloric Acid Naphtoquinone (PAN) method

D:-Sirius red technique

Correct Answer:- Option-B

Question97:-The small round cell tumor which shows Desmin+, Myo Di+, CD44+, CK-, CD45-

A:-Neuroblastoma

B:-Leiomyosarcoma

C:-Synovial Sarcoma

D:-Rhabdomyosarcoma

Correct Answer:- Option-D

Question98:-Which of the following is not a Iron Hematoxyline solution

A:-Weigert's Hematoxyline

B:-Loyez Hematoxyline

C:-Heidenhain's Hematoxyline

D:-Ehrlich's Hematoxyline

Correct Answer:- Option-D

Question99:-\_\_\_\_\_ is not technique for demonstration of Melanin.

A:-Masson-Fontana method

B:-Schmort's Ferric-Ferricyanide reduction test

C:-DOPA reaction

D:-Perls Prussian blue reaction

Correct Answer:- Option-D

Question100:-Microscopic slide specification for routine histology work

A:-76 × 25 mm slide of 1.0 - 1.2 mm thickness

B:-67 × 23 mm slide of 0.75 - 1 mm thickness

C:-65 × 25 mm slide of 0.9 - 1.5 mm thickness

D:-72 × 27 mm slides of 1.5 - 1.7 mm thickness

Correct Answer:- Option-A