

PROVISIONAL ANSWER KEY

Question 30/2025/OL

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Exam: Dental Hygienist Grade II

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Department Health Services

Question1:-Which of the following bones begin to ossify first?

A:-Nasal

B:-Mandible

C:-Vomer

D:-Parietal

Correct Answer:- Option-B

Question2:-Which among the following nerve supplies cricothyroid muscle?

A:-Hypoglossal

B:-Recurrent laryngeal

C:-Vagus

D:-Superior laryngeal

Correct Answer:- Option-D

Question3:-Which of the following is called the safety muscle of tongue?

A:-Hyoglossus

B:-Genioglossus

C:-Palatoglossus

D:-Styloglossus

Correct Answer:- Option-B

Question4:-Ascending palatine artery is a branch of

A:-Internal carotid

B:-External carotid

C:-Facial

D:-Ascending pharyngeal

Correct Answer:- Option-C

Question5:-The anterior belly of digastric muscle is supplied by which nerve

A:-Facial

B:-Vagus

C:-Mylohyoid

D:-Inferior alveolar

Correct Answer:- Option-C

Question6:-Which of the following structures develop from all the three germ layers?

A:-Soft palate

B:-Mitral valve

C:-Tympanic membrane

D:-Tooth

Correct Answer:- Option-C

Question7:-Which of the following is true about facial nerve?

A:-Arises from medulla oblongata

B:-Traverses through parotid gland

C:-Supplies muscles of mastication

D:-Carries no taste fibres

Correct Answer:- Option-B

Question8:-The muscle which helps in elevating the mandible is

A:-Buccinator

B:-Temporalis

C:-Lateral pterygoid

D:-Geniohyoid

Correct Answer:- Option-B

Question9:-Articular disc of TMJ is made of

A:-Elastic cartilage

B:-Fibrocartilage

C:-Bony processes

D:-Hyaline cartilage

Correct Answer:- Option-B

Question10:-Gubernacular canal guides the eruption of

A:-Permanent teeth

B:-Primary teeth

C:-Both (1) and (2)

D:-None

Correct Answer:- Option-A

Question11:-Which of the following agents is **NOT** likely to be found in plasma?

A:-Thrombin

B:-Fibrinogen

C:-Prothrombin

D:-Calcium ion

Correct Answer:- Option-A

Question12:-Which among the following is a biological anticoagulant?

A:-EDTA

B:-Sodium citrate

C:-Oxalate

D:-Hirudine

Correct Answer:- Option-D

Question13:-Cardiac output is **NOT** affected by

A:-Venous return

B:-Peripheral resistance

C:-Systolic BP

D:-Heart rate

Correct Answer:- Option-C

Question14:-Distribution of blood flow is mainly regulated by,

A:-Arteries

B:-Arterioles

C:-Venules

D:-Capillaries

Correct Answer:- Option-B

Question15:-The most abundant principal fibre group of periodontal ligament is

A:-Horizontal

B:-Transeptal

C:-Apical

D:-Oblique

Correct Answer:- Option-D

Question16:-Hertwig's epithelial root sheath is made of

A:-Outer and inner enamel epithelium

B:-Stratum intermedium

C:-Stellate reticulum

D:-Hyaline layer of Hopewell-smith

Correct Answer:- Option-A

Question17:-Wharton's duct drains

A:-Parotid gland

B:-Submandibular gland

C:-Sublingual gland

D:-Lacrimal gland

Correct Answer:- Option-B

Question18:-Dental pulp is derived from

A:-Dental papilla

B:-Dental sac

C:-Stratum intermedium

D:-Stellate reticulum

Correct Answer:- Option-A

Question19:-The pharyngeal phase of deglutition is

A:-a voluntary mechanism

B:-a reflex mechanism

C:-the last phase

D:-none of the above

Correct Answer:- Option-B

Question20:-Sensory receptors for pain are

A:-Pacinian corpuscles

B:-End organs of Ruffini

C:-End bulbs of Krause

D:-Free nerve endings

Correct Answer:- Option-D

Question21:-Which of the following statement is WRONG?

A:-Facilitated diffusion does not require energy for transport of substances across the plasma membrane

B:-Acidic drugs generally bind to plasma albumin

C:-Kidney is the major site for drug metabolism

D:-Alkalization of urine is utilized in poisoning of acidic drugs like barbiturates

Correct Answer:- Option-C

Question22:-Which statement is TRUE about antagonism?

A:-Activated charcoal is used in alkaloidal poisoning due to its adsorption property

B:-Action of histamine and adrenaline on bronchial smooth muscle is an example for chemical antagonism

C:-Antagonist is chemically unrelated to agonist in competitive antagonism

D:-Antagonist binds to same site of receptor in noncompetitive antagonism

Correct Answer:- Option-A

Question23:-Which is an example for unpredictable/Type B/Bizarre adverse drug

reaction?

A:-Hypoglycemia caused by insulin

B:-Anaphylaxis caused by penicillin

C:-Gum hypertrophy caused by phenytoin

D:-Precipitation of myocardial infraction caused by the stoppage of beta blockers

Correct Answer:- Option-B

Question24:-Which local anesthetic drug can be used in surface anesthesia, infiltration anesthesia, spinal anesthesia and epidural anesthesia?

A:-Benzocaine

B:-Eutectic mixture of lidocaine and prilocaine

C:-Bupivacaine

D:-Lidocaine

Correct Answer:- Option-D

Question25:-Selective COX-2 inhibitor is

A:-Diclofenac

B:-Ibuprofen

C:-Paracetamol

D:-Etoricoxib

Correct Answer:- Option-D

Question26:-Drug of choice in Morphine poisoning is

A:-Naloxone

B:-Methadone

C:-Pentazocine

D:-Buprenorphine

Correct Answer:- Option-A

Question27:-Antibacterial group that inhibits protein synthesis is

A:-Cephalosporins

B:-Sulfonamides

C:-Tetracyclines

D:-Fluoroquinolones

Correct Answer:- Option-C

Question28:-Anti-herpes viral drug is

A:-Oseltamivir

B:-Acyclovir

C:-Ribavirin

D:-Lamivudine

Correct Answer:- Option-B

Question29:-Antifungal agent which acts by interfering fungal mitosis is

A:-Griseofulvin

B:-Clotrimazole

C:-Amphotericin B

D:-Caspofungin

Correct Answer:- Option-A

Question30:-All are disclosing agents used in dentistry except

A:-Erythrosine

B:-Strontium chloride

C:-Fluorescein

D:-Two-tone dye

Correct Answer:- Option-B

Question31:-Most of the pathogenic bacteria grow optimally at _____ degree temperature.

A:-20

B:-37

C:-55

D:-80

Correct Answer:- Option-B

Question32:-Naturally occurring bacteria without cell wall

A:-Mycoplasma

B:-Vibrio

C:-Pneumococci

D:-Salmonella

Correct Answer:- Option-A

Question33:-Method of sterilisation and disinfection of culture media is by

A:-Incineration

B:-Pasteurisation

C:-Hot air oven

D:-Autoclaving

Correct Answer:- Option-D

Question34:-All are oral manifestations of AIDS except

A:-Oral thrush

B:-Gumma

C:-Hairy Leukoplakia

D:-Oral wart

Correct Answer:- Option-B

Question35:-Commonest histological type of oral cancer is

A:-Squamous cell carcinoma

B:-Adenocarcinoma

C:-Small cell carcinoma

D:-Lymphoma

Correct Answer:- Option-A

Question36:-Xerostomia is seen in

A:-Sjogrens syndrome

B:-Antihistamin therapy

C:-Megaloblastic anaemia

D:-All of the above

Correct Answer:- Option-D

Question37:-Epithelioid histiocytes are the component of _____

A:-Ulcer

B:-Granulation tissue

C:-Granuloma

D:-Fat necrosis

Correct Answer:- Option-C

Question38:-The hall mark of malignant tumour is presence of _____

A:-Capsule

B:-Well differentiation

C:-Compression

D:-Metastasis

Correct Answer:- Option-D

Question39:-Most common microorganism associated with dental caries

A:-Mycoplasma

B:-Streptococci mutans

C:-Staph.aureus

D:-Corynebacterium

Correct Answer:- Option-B

Question40:-Pellagra is deficiency of

A:-Vitamin B12

B:-Biotin

C:-Niacin

D:-Folic acid

Correct Answer:- Option-C

Question41:-Clinical implication of a tooth with concrescence is related to

A:-Dental caries

B:-Tooth extraction

C:-Gingivitis

D:-Attrition

Correct Answer:- Option-B

Question42:-In the FDI tooth numbering system, 45 represents

A:-Right maxillary second premolar

B:-Left maxillary second premolar

C:-Right mandibular second premolar

D:-Left mandibular second premolar

Correct Answer:- Option-C

Question43:-Which of the following is a potentially malignant disorder of oral cavity?

A:-Candidiasis

B:-Gingivitis

C:-Frictional keratosis

D:-Leukoplakia

Correct Answer:- Option-D

Question44:-Sudden onset, sharply punched out, crater like erosions of interdental papillae is characteristic feature of

A:-Acute necrotizing ulcerative gingivitis

B:-Gingival abscess

C:-Chronic periodontitis

D:-Gingival neoplasm

Correct Answer:- Option-A

Question45:-Which of the following is a cause of dental erosion?

A:-Faulty tooth brushing technique

B:-Action of bacteria

C:-Use of carbonated drinks

D:-Excessive masticatory force

Correct Answer:- Option-C

Question46:-A 50-year old male presented with difficulty in opening the mouth. He gives history of betel quid chewing since 20 years. The most probable diagnosis is

A:-Leukoplakia

B:-Oral submucous fibrosis

C:-Candidiasis

D:-Frictional keratosis

Correct Answer:- Option-B

Question47:-Which among the following is an age related change in dentin?

A:-Mantle dentin

B:-Predentin

C:-Intertubular dentin

D:-Sclerotic dentin

Correct Answer:- Option-D

Question48:-What is the structural unit of enamel?

A:-Enamel rod

B:-Enamel lamella

C:-Enamel tuft

D:-Enamel spindle

Correct Answer:- Option-A

Question49:-Which of the following cell type is found abundantly in dental pulp?

A:-Osteoblast

B:-Cementoblast

C:-Ameloblast

D:-Fibroblast

Correct Answer:- Option-D

Question50:-Find out the correct statement regarding cellular cementum :

A:-Width remains constant

B:-Rate of deposition is slow

C:-Found at the apical third of root

D:-Also known as primary cementum

Correct Answer:- Option-C

Question51:-Deficiency of which among the following vitamin results in keratinizing metaplasia of epithelium of various mucous membranes?

A:-Vitamin A

B:-Vitamin B

C:-Vitamin C

D:-Vitamin D

Correct Answer:- Option-A

Question52:-A 40-year old female presents with bright red, swollen gingiva with bleeding. The most probable reason for this condition is related to the deficiency of

A:-Biotin

B:-Folic acid

C:-Ascorbic acid

D:-Tocopherol

Correct Answer:- Option-C

Question53:-A 50-year old male presents with dry mouth, chronic periodontitis and multiple carious lesions. Which of the following laboratory investigation may aid in the diagnosis of underlying disease?

A:-Haemoglobin

B:-Serum ferritin

C:-Bleeding time

D:-Random blood sugar

Correct Answer:- Option-D

Question54:-Which of the following polysaccharide can serve as a structural component of plaque matrix and result in attachment of bacteria to the tooth?

A:-Glucan

B:-Levan

C:-Xylitol

D:-Starch

Correct Answer:- Option-A

Question55:-The deficiency of which of the following mineral results in delayed wound healing?

A:-Manganese

B:-Zinc

C:-Fluoride

D:-Sodium

Correct Answer:- Option-B

Question56:-Which among the following in the diet chart is a source of protein mainly?

A:-Orange

B:-Cabbage

C:-Fish

D:-Potato

Correct Answer:- Option-C

Question57:-What is the correct statement regarding dental caries?

A:-Consumption of raw food increases the caries frequency

B:-There is no relationship between the pH of saliva and initiation of dental caries

C:-Morphology of tooth does not have a role in the initiation of caries

D:-Dietary calcium does not influence the occurrence of dental caries

Correct Answer:- Option-D

Question58:-Which of the following is a manifestation of iron deficiency?

A:-Bleeding spots

B:-Gingivitis

C:-Angular cheilitis

D:-Lingual paraesthesia

Correct Answer:- Option-C

Question59:-Which of the following diet modification is advised for patients with gingivitis?

A:-Soft carbohydrate rich foods

B:-Vitamin C rich foods

C:-Calcium rich foods

D:-Fat rich foods

Correct Answer:- Option-B

Question60:-Deficiency of which of the following vitamin results in distortion of the skeleton and increased tendency of fracture?

A:-Vitamin A

B:-Vitamin B

C:-Vitamin C

D:-Vitamin D

Correct Answer:- Option-D

Question61:-Which among the following are the factors that affect toothbrush bristle hardness?

A:-Diameter of bristles

B:-Length of bristles

C:-Curvature of filaments

D:-All of the above

Correct Answer:- Option-D

Question62:-As per ADA specification of toothbrush, the number of tufts per row should be :

A:-10-20

B:-5-12

C:-8-16

D:-4-5

Correct Answer:- Option-B

Question63:-Which toothbrushing technique is used as a routine oral hygiene measure?

A:-Charter's method

B:-Modified Stillman's method

C:-Modified Bass technique

D:-Leonard's method

Correct Answer:- Option-C

Question64:-Which among the following is a commonly used disclosing agent?

A:-Hydrogen peroxide

B:-Calcium phosphate

C:-Erythrosine

D:-Stannous Fluoride

Correct Answer:- Option-C

Question65:-Which among the following is a recommended method for cleaning in areas with gingival recession and root exposure?

A:-Modified Bass Technique

B:-Modified Stillman's technique

C:-Charter's method

D:-Fones method

Correct Answer:- Option-B

Question66:-The superior antiplaque activity of chlorhexidine is due to its property known as

A:-Selectivity

B:-Superiority

C:-Subtlety

D:-Substantivity

Correct Answer:- Option-D

Question67:-What type of disclosing agent can differentiate between old and new plaque?

A:-Erythrosine

B:-Two tone solutions

C:-Basic Fuchsin

D:-Bismark brown

Correct Answer:- Option-B

Question68:-What is the function of humectant in dentifrices?

A:-To prevent toothpaste from drying out

B:-To provide a minty taste

C:-To help remineralize enamel

D:-Antimicrobial activity

Correct Answer:- Option-A

Question69:-The function/functions of dental floss is/are:

A:-Removal of plaque from interproximal areas

B:-Vehicle for application of polishing agents

C:-To whiten teeth

D:-Both (1) and (2)

Correct Answer:- Option-D

Question70:-The acquired pellicle forms _____ after the oral prophylaxis.

A:-Immediately

B:-30 minutes

C:-1 hour

D:-1 day

Correct Answer:- Option-A

Question71:-Which among the following is not a part of 5 A model in tobacco cessation counselling?

A:-Ask

B:-Advice

C:-Accept

D:-Arrange

Correct Answer:- Option-C

Question72:-Which of the following is a key objective of COTPA?

A:-To promote the use of tobacco

B:-To regulate the advertisement and sale of tobacco products

C:-To increase tobacco production in India

D:-To provide subsidies for tobacco companies

Correct Answer:- Option-B

Question73:-The predominant immunoglobulin present in saliva :

A:-IgA

B:-IgG

C:-IgM

D:-IgE

Correct Answer:- Option-A

Question74:-Prolonged thumbsucking can lead to which type of malocclusion?

A:-Class III malocclusion

B:-Open bite

C:-Cross bite

D:-Deep bite

Correct Answer:- Option-B

Question75:-Which among the following sugars is considered the most cariogenic?

A:-Fructose

B:-Lactose

C:-Sucrose

D:-Maltose

Correct Answer:- Option-C

Question76:-Which of the following minerals present in saliva help in remineralization of enamel?

A:-Sodium and Potassium

B:-Calcium and Phosphate

C:-Iron and Zinc

D:-Magnesium and copper

Correct Answer:- Option-B

Question77:-Which component of saliva has antibacterial properties?

A:-Lysozyme

B:-Collagen

C:-Keratin

D:-Melanin

Correct Answer:- Option-A

Question78:-Which among the following is a pH rising factor in saliva?

A:-Sucrose

B:-Sialin

C:-Lactoperoxidase

D:-Fructose

Correct Answer:- Option-B

Question79:-Which among the following is NOT a phase in the history of public health?

A:-Disease control phase

B:-Health promotional phase

C:-Social engineering phase

D:-Biomedical phase

Correct Answer:- Option-D

Question80:-The dietary behaviour of holding or swishing acidic beverages in the mouth increases the risk for:

A:-Dental caries

B:-Periodontal disease

C:-Oral cancer

D:-Dental erosion

Correct Answer:- Option-D

Question81:-Chemical formula of Orthorhombic anhydrate is

A:- $\text{CaSO}_4 \cdot \text{H}_2\text{O}$

B:- $(\text{CaSO}_4)_2 \cdot \text{H}_2\text{O}$

C:- $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

D:- CaSO_4

Correct Answer:- Option-D

Question82:-Regarding strength of set plaster of Paris, which of the following statement is true?

A:-Wet strength is less than the dry strength

B:-Dry strength is less than the wet strength

C:-Both dry and wet strengths do not differ

D:-We can't predict whether wet or dry strength is less

Correct Answer:- Option-A

Question83:-Chanel in a refractory investment mold through which molten metal flows is known as

A:-Sprue

B:-Crucible

C:-Reservoir

D:-Casting line

Correct Answer:- Option-A

Question84:-Dentist asked for glass ionomer cement for a patient requiring restoration in the esthetic area of a permanent central incisor. Which type of glass ionomer cement you will provide?

A:-Type I

B:-Type IIa

C:-Type IIb

D:-Type III

Correct Answer:- Option-B

Question85:-Which ion gives protection against dental caries?

A:-Chloride (Cl-)

B:-Bromide (Br-)

C:-Fluoride (F-)

D:-Iodide (I-)

Correct Answer:- Option-C

Question86:-Which one of the following is plant derived wax?

A:-Bees wax

B:-Paraffin wax

C:-Ceresin wax

D:-Carnauba wax

Correct Answer:- Option-D

Question87:-Amalgam is an alloy containing

A:-Mercury

B:-Copper

C:-Iron

D:-Silver

Correct Answer:- Option-A

Question88:-You are required to select an impression material suited for a patient requiring fixed partial denture. Which one of the following materials you will select?

A:-Impression compound

B:-Zinc oxide eugenol paste

C:-Impression plaster

D:-Addition silicone

Correct Answer:- Option-D

Question89:-Most popular implant biomaterial is

A:-Titanium

B:-Zirconium

C:-Stainless steel

D:-Nitinol

Correct Answer:- Option-A

Question90:-Initiator present in the acrylic resin is

A:-Methyl methacrylate

B:-Polymethyl methacrylate

C:-Benzoyl peroxide

D:-Hydroquinone

Correct Answer:- Option-C

Question91:-Paternalism in ethics refers to

A:-The doctor knows best

B:-The patient decides his treatment

C:-Text books should be referred

D:-Articles should be referred

Correct Answer:- Option-A

Question92:-Which one of the following is related to discrimination?

A:-Declaration of New Delhi

B:-Declaration of Tokyo

C:-Declaration of Geneva

D:-Declaration of New York

Correct Answer:- Option-C

Question93:-Cyclical process designed to identify ways in which clinical practice may be improved to instigate change for the better and to confirm a successful outcome is called

A:-Clinical audit

B:-Clinical check

C:-Clinical uplift

D:-Clinical enhancement

Correct Answer:- Option-A

Question94:-Jurisprudence refers to

A:-Philosophy of law

B:-Philosophy of medicine

C:-Philosophy of dentistry

D:-Philosophy of science

Correct Answer:- Option-A

Question95:-Which one of the following theories of ethics focuses on the action, rule or practice of an act rather than on the consequences?

A:-Utilitarian theory

B:-Deontologic theory

C:-Virtue theory

D:-Dilemma theory

Correct Answer:- Option-B

Question96:-In the negative electrode area of the X-ray tube, the semicircular cup

is made up of

A:-Molybdenum

B:-Tungsten

C:-Copper

D:-Lead

Correct Answer:- Option-A

Question97:-Amount of radiation energy absorbed by the tissues is called

A:-Dose

B:-Response

C:-Exposure

D:-REM

Correct Answer:- Option-A

Question98:-Bisecting technique in intraoral radiography is based on

A:-Rule of equilateral triangle

B:-Rule of trisection

C:-Rule of isometry

D:-Rule of thumb

Correct Answer:- Option-C

Question99:-Safe lighting in dark rooms requires the use of bulb _____ watts.

A:-0

B:-0-3.5

C:-4-7

D:-7.5-15

Correct Answer:- Option-D

Question100:-Dentist act was introduced in

A:-1947

B:-1948

C:-1956

D:-1957

Correct Answer:- Option-B