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1q: all of the following infections are acquired by consumption of shell fish except ?

- a. Norwalk virus
- b. Hepatitis a virus
- c. Vibrio parahemolyticus
- d. Adenovirus

Answer: d . adeno virus .

2q: all of the following are used in lysis centrifugation technique except ?

- a. saponin
- b. polypropylene glycol
- c. sodium polyanethanol sulphonate
- d. palmitic acid

answer : d . palmitic acid is not used .

3q: which of the following stain is specific for dermatiaceous fungi ?

- a. mayer's mucicarmin stain
- b. hematoxylin and eosin stain
- c. masson-fontana silver stain
- d. gridley's fungal stain

answer: c . masson – Fontana silver stain .

4q: whipple's disease causative agent ?

Answer : trophyrema whippeli .

5q: in HIV positive patients to prevent Cryptococcus neoformans infection the following drug is used for prophylaxis ?

Answer : fluconazole.

6q: the organism causing cellulitis in fish mongers ?

- a. pasteurilla multocida
- b. capnocytophaga canimorsus
- c. eikenella corrodens
- d. erysipelothrix rhusiopathiae

answer : d .

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7q: the humanized CD 33 antibody linked to calicheamicin (a potent anti tumor antibiotic) called as GEMTUZUMAB OZOGAMICIN is used in the treatment of which leukemia ?

- a. AML
- b. ALL
- c. CML
- d. CLL

Answer: a . AML .

8q: delayed hemolytic transfusion reaction occurs due to incompatibility in which antigen system?

- a. duffy antigen
- b. kidd antigen
- c. p system
- d. lewis system

answer: b . kidd antigen .

9q: the normal level of plasma fibrinogen ?

Answer: 150 – 400 mg/dl .

10q: the vitamin supplement used to treat maple syrup urine disease ?

- a. vitamin C
- b. thiamine
- c. riboflavin
- d. niacin

answer : b . thiamine .

11q: the aminoacids used in the synthesis of creatinine and creatine are ?

Answer : glycine and arginine .

12q: pulsating tumor is ?

- a. osteosarcoma
- b. chondrosarcoma
- c. ewing's sarcoma
- d. osteoclastoma

answer : a . osteosarcoma .

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13q: most common organism causing meningitis in a 1 year old child in India is ?

- a. streptococcus pneumoniae
- b. hemophilus influenza
- c. listeria
- d. neisseria meningitides

answer : b .

14q: urine has sweaty feet odour in which condition ?

- a. alkaptonuria
- b. cystinuria
- c. glutaric acidemia
- d. tyrosinemia

answer : c . glutaric acidemia .

15q: which is the part of the vertebral canal that will show secondary curves with concavity backwards ?

- a. cervical
- b. thoracic
- c. sacral
- d. coccyx .

answer : a . cervical .

16q: aspiration of sperms from testes is done in ?

- a. TESA
- b. MESA
- c. ZIFT
- d. GIFT

Answer : a . TESA .

17q: highest transmission of hepatitis B from mother to fetus occurs if the mother is infected during which of these

- a. first trimester
- b. second trimester
- c. third trimester
- d. at the time of implantation

answer : c . third trimester

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18q: bishops score includes all except

- dilatation
- effacement
- station of the presenting part
- interspinous diameter

answer : d .

19q: granulocytopenia , gingival hyperplasia and facial hirsutism are all possible side effects of one of the following drugs

- phenytoin
- valproate
- carbamazepine
- phenobarbitone

answer : a . phenytoin .

20q: entropy in a biological system does not increase because

- it is an open system
- it is a closed system
- it is governed by vitalism
- it is related to thermodynamics

answer: a .

21q: hemorrhage secondary to heparin administration can be corrected by administration of

- vitamin k
- whole blood
- protamine
- ascorbic acid

answer : c . protamine .

22q: all of the following are selective beta blockers except

- atenolol
- esmolol
- bisoprolol
- celiprolol

answer : d .

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23q: codex alimentarius is the food standard at ?

- a. state level
- b. regional level
- c. national level
- d. international level

answer : d . international level.

24q: juvenile means

Answer : a boy who has not attained 16 years of age and a girl who has not attained 18 years of age .

25q: aminoacid score is

Answer : a measure of concentration of each essential aminoacid in the test protein expressed as a percentage of that aminoacid in the reference protein .

26q: what is TESA ?

Answer : testicular sperm aspiration .

27q: the limiting amino acid in wheat is ?

Answer : lysine and threonine .

28q: a 25 year old woman with recurrent episodes of headaches, sweating and hypertension is noted to have elevated vanilylmandelic acid (VMA) and metanephrines. CT scan reveals no abnormalities in either adrenal gland . which of the following is the most probable location of the pheochromocytoma ?

- a. bladder
- b. bifurcation of aorta
- c. paravertebral ganglia
- d. carotid body

answer : b . bifurcation of aorta .

29q: which one of the following is a permanent spatial group ?

- a. crowd
- b. mob
- c. herd
- d. band

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answer : d . band .

30q: a five year old boy has multiple asymptomatic oval and circular faintly hypopigmented macules with fine scaling on his face. The most probable clinical diagnosis ?

- ptyriasis versicolor
- indeterminate leprosy
- ptyriasis alba
- acrofacial vitiligo

answer : c . ptyriasis alba .

31q: the composition of MALA – N and MALA – D

Answer : norgestrol 0.3 mg and ethinyl estradiol 0.03 mg

32q: MIRENA is a T shaped IUCD which releases _____ micrograms of _____?

Answer : 20 micrograms of levonorgestrel .

33q: delirium tremens is characterized by confusion associated with

- autonomic hyperactivity and tremors
- trichotillomania
- kleptomania
- capgras syndrome

answer : a . autonomic hyperactivity and tremors . due to alcohol withdrawal and other causes .

34q: an anaesthetist orders an attendant to bring the oxygen cylinder . he will ask the attendant to identify the correct cylinder by following which color code ?

Answer : black cylinder with white shoulders .

35q: extensive pleural thickening and calcification especially involving the diaphragmatic pleura are classical features of

- coal workers pneumoconiosis
- asbestosis
- silicosis
- siderosis

answer : b . asbestosis .

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36q: a positive tuberculin test , with a firm 15 mm diameter dark red firm area of induration on the forearm appears 60 hrs following injection of the PPD . this finding is most likely to be a consequence of which of the following types of hypersensitivity reaction ?

- type 1 hypersensitivity
- type 2 hypersensitivity
- type 3 hypersensitivity
- type 4 hypersensitivity

answer : d . type 4 .

37q : which of the following does not handle free radicals in lens?

- vitamin A
- vitamin C
- vitamin E
- catalase

answer : a . Vitamin A .

38q: hyaluronic acid is found in

- vitreous humor
- synovial fluid
- cartilage
- cornea

answer : a . vitreous humor .

39q: which of the following is true of judicial hanging

- knot is present behind the neck
- knot is at the side of the neck
- ligature always presents below the chin
- choice of hangman

answer : c .

40q: a person presents with acute poisoning , with clinical picture of chills and rigors similar to malaria. Which is the most likely poisoning ?

- mercury
- zinc
- red phosphorus
- arsenic

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answer : b . zinc .

41q: brain is preserved in all of the following poisonings except

- a. OPC poisoning
- b. Alkaloid poisoning
- c. Heavy metal poisoning
- d. Volatile organic poisoning

Answer : c . heavy metal poisoning .

42q: cytosolic cytochrome C plays an important role in ?

- a. apoptosis
- b. cell necrosis
- c. electron transport chain
- d. cell division

answer : a . apoptosis .

43q: sexual asphyxia is associated with which one of the following

- a. masochism
- b. sadism
- c. fetishism
- d. voyeurism

answer : a . masochism .

44q: post transplant lymphoma occurs due to proliferation of which of the following cells ?

- a. T cell
- b. B cell
- c. NK cell
- d. Monocyte

Answer : b . B cell .

45q: NK cells attack which of the following cells ?

- a. MHC cells which express MHC 1
- b. Cells which are not able to express MHC 1
- c. MHC cells which express MHC 2
- d. Cells which are not able to express MHC 2

Answer : b .

46q: which is autosomal dominant ?

- gyrate atrophy
- best disease
- Lawrence moon biedl syndrome
- Bassen kornweig disease

Answer : b . best diagnostic test for best disease is EOG .

47q: treatment of choice for glue ear ?

Answer : myringotomy with ventilation tube insertion

48q: all the following are contraindicated in pregnancy except ?

- sodium nitroprusside
- labetalol
- spironolactone
- ACE inhibitors

Answer : b . labetalol can be given in pregnancy .

49q: the following drug is not useful in MRSA (methicillin resistant staphylococcus aureus) ?

- cefactor
- cotrimoxazole
- ciprofloxacin
- vancomycin

answer : a . cefactor .

50q: northern blot is used for the separation of ?

- m RNA
- DNA
- Protein
- Protein DNA interaction

Answer : a . m RNA .

51Q: CAP in lac operon is an example of ?

a positive regulator

- b. negative regulator
- c. constitutive expression
- d. attenuation

answer : a . CAP (catabolite activator protein).

52q: 6 year old child with recurrent URTI with mouth breathing and impaired hearing . treatment is ?

Answer : adenoidectomy with grommet insertion .

53q: most common cause of blindness in children in India is all except ?

- a. malnutrition
- b. opthalmia neonatorum
- c. glaucoma
- d. congenital dacryocystitis

answer: d .

54q: the nucleus involved in papez circuit is ?

- a. pulvinar
- b. intralaminar
- c. VPL nucleus
- d. Anterior nucleus

Answer : d . anterior nucleus .

55q: the processing of short term memory and long term memory is done in which part of brain ?

Answer: hippocampus .

56q: these mechanism of learning and memory includes all except ?

- a. increasing or decreasing neurotransmitter release
- b. increasing receptor synthesis
- c. recruitment by multiplication of neurons
- d. spatial organization of the associational areas

answer : c .

57q: not secreted in the kidney is ?

a. rennin

- b. angiotensin 1
- c. erythropoietin
- d. 1,25 DHCC

Answer : b .

58q: if a stab wound lacerates the posterior humeral circumflex artery passing through the quadrangular space on the shoulder region , which of the following nerves might be injured ?

Answer : axillary nerve .

59q: which of the following ligaments is important in preventing forward displacement of the femur on the tibia when the weight bearing knee is flexed ?

Answer : posterior cruciate ligament prevents anterior displacement of femur on tibia .

60q: a 21 year old woman comes to the emergency department with chylothorax due to rupture of the thoracic duct. Lymphatic drainage remains normal in which of the following areas ?

- a. left thorax
- b. right thorax
- c. left abdomen
- d. right pelvis

answer : b . right thorax .

61q: if the urethra is torn distal to the urogenital diaphragm , urine might accumulate in the ?

- a. retropubic space
- b. medial aspect of thigh
- c. ischiorectal fossa
- d. superficial perineal space

answer : d . superficial perineal space .

62q: parasympathetic fibres that supply the urinary bladder are derived from which of the following nerves ?

Answer : pelvic splanchnic nerve .

63q: general somatic afferents (GSA) fibres are contained in which of the following structures

- a. sympathetic trunk
- b. dorsal root
- c. greater splanchnic nerve
- d. gray rami communicantes

answer : b . dorsal root .

64q: a lesion of parasympathetic fibres in the vagus nerve interferes with glandular secretory or smooth muscle functions in which of the following organs

- a. bladder
- b. transverse colon
- c. sigmoid colon
- d. prostate gland

answer : b . transverse colon . the vagus nerve supplies parasympathetic fibres to the thoracic and abdominal viscera , including the transverse colon . the descending and sigmoid colons and the abdominal viscera are innervated by the pelvic splanchnic nerves .

65q: overactivity of the thiazide sensitive NaCl transporter is called as

- a. dent's disease
- b. gordon's syndrome
- c. liddle syndrome
- d. gitelman's syndrome

answer : b . gordon's syndrome .

66q: most important marker for acute and chronic malnutrition is ?

- a. weight for height
- b. BMI
- c. Weight for age
- d. Height for age

Answer : c . weight for age .

67q: the following is the first phenotypic expression of hereditary hemochromatosis?

- a. post prandial increase in iron
- b. increased serum ferritin
- c. increase in transferrin saturation
- d. slate like skin pigmentation

answer : c . increase in transferrin saturation .

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68q: the mechanism of action of imatinib ?

- competitive inhibitor of the bcr abl gene product
- P glycoprotein inhibitor
- P glycoprotein stimulator
- Competitively antagonizes the ATP binding site

Answer : d .

69q: the following statement is true regarding AIDS associated arthropathy ?

- involves smaller joints
- erosive arthritis
- NSAID s are the drug of choice
- Lasts 6 weeks to 6 months

Answer : d . lasts 6 weeks to 6 months .

70q: all of the following produce diphtheria toxin except ?

- corynebacterium diphtheriae
- corynebacterium ulcerans
- corynebacterium pseudotuberculosis
- corynebacterium pseudodiphthericum

answer : d .

71q: dienes phenomenon is seen in ?

- proteus
- mycoplasma
- Chlamydia
- Rickettsia

Answer : a . proteus .

72q: a patient with conjugated hyperbilirubinemia was diagnosed to have an inherited disorder of bile canalicular function . his serum gamma glutamyl transferase (GGT) levels were elevated . what could be the probable diagnosis ?

- BRIC
- Rotors syndrome
- PFIC 2
- PFIC 3

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Answer : d . PFIC 3 . the only variant of inheritable disorder of bile canalicular function with elevated GGT is PFIC 3 .

73q: the following CD antigen regulates Ig E synthesis ?

- a. CD 23
- b. CD 22
- c. CD 21
- d. CD 20

Answer : a . CD 23 .

74q: the complement component H deficiency predisposes to ?

- a. pyogenic infections
- b. neisseria infection
- c. Hemolytic uremic syndrome
- d. Immune complex syndromes

Answer : c . HUS .

75q: asialoglycoprotein receptor is the auto antigen in which auto immune disorder?

- a. auto immune hepatitis
- b. myasthenia gravis
- c. auto immune gastritis
- d. acquired hypoparathyroidism

answer : a . auto immune hepatitis .

76q: the recommended therapy for vancomycin resistant enterococcal infection ?

Answer : ampicillin plus gentamicin .

77q: drug of choice for prophylaxis of bacterial infection in a patient undergoing colorectal surgery (clean contaminated) includes all except ?

- a. cefoxitin
- b. oral neomycin
- c. erythromycin
- d. fluoroquinolones

answer : d .

78q: which bone tumor occurs in epiphysis ?

- a. osteoclastoma
- b. ewing's sarcoma
- c. chondro-myxoid fibroma
- d. osteosarcoma

answer : a . osteoclastoma occurs in epiphysis .

79q: regarding S4 which of the following statement is true

- a. ventricular filling
- b. rapid ejection phase
- c. can be heard with human ear
- d. frequency more than 20 hertz

answer : a . ventricular filling .

80q: most common force involved in fractures of the spine

- a. flexion
- b. extension
- c. rotation
- d. compression

answer : a .

81q: mechanism of violence in burst fracture of spine

- a. compression violence
- b. flexion violence
- c. extension violence
- d. distraction violence

answer : a . compression violence .

82q: most common mode of treatment of a 1 year old child with asthma ?

- a. inhaled short acting beta 2 agonist with MDI
- b. oral short acting theophylline
- c. oral ketotifen
- d. inhaled short acting beta 2 agonist with spacer ,mask and MDI

answer : d . MDI stands for metered dose inhaler .

83q: the latest diodes used for phototherapy of neonates , which have the advantages of production of minimal heat, narrow luminous spectra in the blue green range with massive delivery of irradiance is ?

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Answer : halogen quartz light emitting diode .

84q: which of the following has receptors intracellularly in muscle cells ?

- a. insulin
- b. corticosteroid
- c. epinephrine
- d. glucagon

answer : b . corticosteroid .

85q: ovarian cyst in a post partum patient . treatment is

- a. immediate removal
- b. after two weeks
- c. after 6 weeks
- d. after 3 months

answer : a . immediate removal .

86q: juvenile delinquency has an extra _____ chromosome?

- a. X chromosome
- b. Y chromosome
- c. XX chromosome
- d. YY chromosome

Answer : b . Y chromosome .

87q: when the hand is in a resting supine position , the radius is in articulation at the radiocarpal joint with which of the following bones ?

- a. triquetrum and trapezium
- b. lunate and trapezium
- c. scaphoid and lunate
- d. scaphoid and hamate

answer : c . scaphoid and lunate .

88q: an indirect inguinal hernia occurs

- a. lateral to the inferior epigastric artery
- b. between the inferior epigastric and obliterated umbilical arteries
- c. medial to the obliterated umbilical artery
- d. between the median and medial umbilical folds

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answer : a . lateral to the inferior epigastric artery .

89q: vision 2020 does not include ?

- a. cataract
- b. trachoma
- c. onchocerciasis
- d. epidemic conjunctivitis

answer : d . epidemic conjunctivitis .

90q: hypoxia stimulates glycolysis by which regulating pathways ?

Answer : oxygen inhibits hexokinase .

91q: organism which shows tumbling motility ?

Answer : listeria at 20 – 25 degree Celsius .

92q: microorganism which show swarming ?

Answer : proteus mirabilis, proteus vulgaris, bacillus cereus and clostridium tetani .
proteus also shows the characteristic [diene phenomenon](#) .

93q: toll like receptors are expressed on all except ?

- a. macrophages
- b. dendritic cells
- c. B cells
- d. T cells

Answer : d . T cells .

94q: all of the following are oxidase positive organisms except ?

- a. E . coli
- b. Vibrio cholera
- c. Pseudomonas aeruginosa
- d. Aeromonas hydrophila

Answer : a . E . coli is oxidase negative .

95q: protective anti tetanus toxoid antibody levels in a person vaccinated against tetanus should be atleast ?

Answer : 0.1 IU/ml .

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96q: a baby is suffering from severe ABO incompatibility . exchange transfusion is planned for the baby . the baby's weight is 3 kg . how much blood will be needed for exchange transfusion ?

Answer : 540 ml . exchange blood transfusion for neonatal hyperbilirubinemia is done with double the blood volume of the baby – 180 ml/kg. baby's weight is 3 kg and hence the amount of blood needed is $180 \times 3 = 540$ ml .

97q: in a lady of 32 weeks pregnancy injection dexamethasone is to be given to prevent ?

- a. RDS
- b. Neonatal convulsion
- c. Neonatal jaundice
- d. Cerebral palsy

Answer : a . RDS .

98q: anti hormonal substance used to induce ovulation is ?

- a. mifepristone
- b. clomiphene citrate
- c. tamoxifen
- d. raloxifen

answer : b .

99q: non contraceptive use of OC pills are all except ?

- a. carcinoma endometrium
- b. carcinoma breasts
- c. rheumatoid arthritis
- d. endometriosis

answer : b . carcinoma breasts .

100q: on TVS which of the following shape of cervix indicates preterm labour ?

Answer : U shape . (TVS stands for transvaginal sonography)