

PROVISIONAL ANSWER KEY

Question Paper Code:	6/2019/OL
Category Code:	031/2018
Exam:	Assistant professor in Microbiology (NCA)
Medium of Question:	English
Date of Test	20-03-2019
Department	Medical Education
Alphacode	A

Question1:-Which article defines the amendment of Indian constitution?

- A:-Article 368
- B:-Article 367
- C:-Article 395
- D:-Article 366

Correct Answer:- Option-A

Question2:-'Ormmakalude Bhramanapatham' is the autobiography of

- A:-O. Madhavan
- B:-Nambi Narayanan
- C:-G. Madhavan Nair
- D:-Varghese Vaidyan

Correct Answer:- Option-B

Question3:-Which among the following was the centre of 'Tholviraku Samaram'?

- A:-Kavumbai
- B:-Cheemeni
- C:-Karivellur
- D:-Morazha

Correct Answer:- Option-B

Question4:-Origin of classical dance 'Kathak' is in

- A:-Odisha
- B:-U.P
- C:-Andhra Pradesh
- D:-Madhya Pradesh

Correct Answer:- Option-B

Question5:-First electronic digital computer of the world is

- A:-Deep Blue
- B:-Cosmos
- C:-Blue Geno
- D:-Eniac

Correct Answer:- Option-D

Question6:-Name the book written by Anna Burns, which gets Man Booker Prize in 2018

- A:-Washington Black
- B:-Nobones
- C:-Little construction
- D:-Milkman

Correct Answer:- Option-D

Question7:-Where was the venue of first session of yogakshema sabha?

- A:-Aluva
- B:-Pattambi
- C:-Kuttippuram
- D:-Sreekrishnapuram

Correct Answer:- Option-A

Question8:-World Habitat Day is observed on

- A:-September 17
- B:-October 9
- C:-October 3
- D:-September 12

Correct Answer:- Option-C

Question9:-Who was the first editor of monthly namely 'Vivekodayam'?

A:-V.T. Bhattathirippad

B:-Vakbhatananda

C:-Premji

D:-N. Kumaran Asan

Correct Answer:- Option-D

Question10:-Name of the first atomic submarine of India

A:-V.R. Gill

B:-D.B. Mahawar

C:-INS. Chakra

D:-R.N. Shukla

Correct Answer:- Option-C

Question11:-Name the programme introduced by government of India for Bangladesh refugees?

A:-Operation Insaniyat

B:-Operation Bangla

C:-Operation Sadbhavana

D:-Operation Meghdoot

Correct Answer:- Option-A

Question12:-Name the play written by Lalithambika Antharjanam on the basis of widow re-marriage?

A:-Lalithanjali

B:-Ayirathiri

C:-Punarjanmam

D:-Pavithramothiram

Correct Answer:- Option-C

Question13:-Which Indian Five Year Plan is known as 'Gadgil Yojana'?

A:-Fourth Plan

B:-Third Plan

C:-Second Five Year Plan

D:-Sixth Five Year Plan

Correct Answer:- Option-B

Question14:-Name the film, which gets national award for best film on social issues in 2017

A:-Aalorukkam

B:-Thondimuthalum Driksakshiyum

C:-Bhayanakam

D:-Take off

Correct Answer:- Option-A

Question15:-Swachhbharat scheme was inaugurated on

A:-August 15, 2015

B:-August 15, 2014

C:-October 2, 2014

D:-January 26, 2014

Correct Answer:- Option-C

Question16:-Which Tennis Cup is known as Rolandgarros?

A:-U.S. Open

B:-Australian Open

C:-Wimbledon

D:-French Open

Correct Answer:- Option-D

Question17:-Name the novel which gets Vayalar Award in 2018?

A:-Syamamadhavam

B:-Ushnaraashi

C:-Thakshankunnu Swaroopam

D:-Sugandhi Enna Andal-Devanayaki

Correct Answer:- Option-B

Question18:-The venue of 10th BRICS summit 2018 is

A:-Xianen - China

B:-Fortaleza - Brazil

C:-Johannesberg - South Africa

D:-Panaji - Goa, India

Correct Answer:- Option-C

Question19:-Name the programme of government of Kerala for rehabilitation of differently abled

- A:-Kaivalya
- B:-Kaithangu
- C:-Thuna
- D:-Ardram

Correct Answer:- Option-A

Question20:-The first ever airport of Sikkim is at _____.

- A:-Gangtok
- B:-Lachung
- C:-Pelling
- D:-Pakyong

Correct Answer:- Option-D

Question21:-Decreasing order of ability of antibodies to fix complement is

- A:-IgM > IgG3 > IgG1 > IgG2
- B:-IgG1 > IgG2 > IgM > IgG3
- C:-IgG1 > IgM > IgG2 > IgG3
- D:-IgG3 > IgG2 > IgG1 > IgM

Correct Answer:- Option-A

Question22:-The test used for screening pregnant women for antibodies that may cause haemolytic disease of new born is

- A:-Neutralisation test
- B:-Direct coombs test
- C:-Indirect coombs test
- D:-Immunohistochemistry

Correct Answer:- Option-C

Question23:-All are true about Type IV hypersensitivity except

- A:-Delayed type of hypersensitivity
- B:-Immune mechanism against intracellular microorganisms
- C:-`T_{DTH}` cells are the principal mediators
- D:-Radio-immunosorbent test for serum IgE helps in diagnosis

Correct Answer:- Option-D

Question24:-Elek's gel precipitation test is an example of

- A:-Oudin procedure
- B:-Ouchterlony procedure
- C:-Oakley-Fulthrop procedure
- D:-Rocket electrophoresis

Correct Answer:- Option-B

Question25:-C1 esterase inhibitor deficiency leads to

- A:-Recurrent pyogenic infections
- B:-Paroxysmal nocturnal haemoglobinuria
- C:-Collagen vascular diseases
- D:-Hereditary angioneurotic oedema

Correct Answer:- Option-D

Question26:-Type II hypersensitivity reaction is mediated by

- A:-IgG
- B:-Antigen-antibody complex
- C:-IgA
- D:-IgE

Correct Answer:- Option-A

Question27:-Which of the following is an antibody dependent pathway?

- A:-Classical pathway
- B:-Alternate pathway
- C:-Lectin pathway
- D:-None of the above

Correct Answer:- Option-A

Question28:-Most common bacteria causing neonatal meningitis is

- A:-Streptococcus pneumonia
- B:-Haemophilus influenza
- C:-Neisseria meningitidis
- D:-Escherichia coli

Correct Answer:- Option-D

Question29:-AIIR is needed in

A:-Droplet precautions

B:-Airborne precautions

C:-Contact precautions

D:-None of the above

Correct Answer:- Option-B

Question30:-According to Biomedical waste management 2018, metallic body implants should be segregated in

A:-White container (puncture proof box)

B:-Yellow bag with biohazard symbol

C:-Blue container (puncture proof box)

D:-Red bag with biohazard symbol

Correct Answer:- Option-C

Question31:-Bundle care approach for prevention of CAUTI is

A:-Drainage bag must be always above the bladder level

B:-Closed drainage system should be maintained

C:-Silastic catheters is associated with increased chance of urethritis

D:-Routine prophylactic antimicrobial therapy is advised

Correct Answer:- Option-B

Question32:-Bundle care of VAP includes all except

A:-Elevation of head end of the bed to 30-45°

B:-Change ventilator tubings frequently

C:-Daily interruption of sedation

D:-Prophylaxis for peptic ulcer disease

Correct Answer:- Option-B

Question33:-Lymphogranuloma Venereum is caused by

A:-Haemophilus ducreyi

B:-Calymmatobacterium granulomatis

C:-Chlamydia trachomatis

D:-Gardnerella vaginalis

Correct Answer:- Option-C

Question34:-All are true about Mucormycosis EXCEPT

A:-Major risk factor is uncontrolled diabetes mellitus

B:-Posaconazole is effective

C:-Angioinvasive

D:-Septate hyphae with branched sporangiophores, rhizoids absent

Correct Answer:- Option-D

Question35:-True about CBNAAT is

A:-Detects INH resistance

B:-Detection limit of 10^4 bacilli/ml sputum

C:-Detects mutations of the rpo B gene

D:-Can further speciate MTB complex

Correct Answer:- Option-C

Question36:-Modified Faine's criteria is used for the diagnosis of

A:-Rheumatic fever

B:-Bacterial vaginosis

C:-Systemic lupus erythematosus

D:-Leptospirosis

Correct Answer:- Option-D

Question37:-Sorbitol Mac Conkey agar is used for laboratory diagnosis of

A:-EHEC

B:-ETEC

C:-EPEC

D:-EIEC

Correct Answer:- Option-A

Question38:-All are true about Gluteraldehyde as disinfectant except

A:-Exposure monitoring not required

B:-Bactericidal, Virucidal, Sporicidal

C:-Alkaline solution is active

D:-Not stains skin proteins

Correct Answer:- Option-A

Question39:-Flash sterilization is

A:-Can be used as a routine substitute for autoclave

B:-Holding period is 132° C at 27-28 lbs for 3-4 minutes

C:-Can be used for wrapped items

D:-All of the above

Correct Answer:- Option-B

Question40:-Concentration of Orthophthaldehyde as chemical sterilant

A:-3%-6%

B:-2%

C:-0.55%

D:-10%

Correct Answer:- Option-C

Question41:-Sequence of removing Personal Protective Equipment (PPE)

A:-Gloves, Gown, Goggles, Mask

B:-Glove, Mask, Goggles, Gown

C:-Gloves, Goggles, Gown, Mask

D:-Gown, Mask, Gloves, Goggles

Correct Answer:- Option-C

Question42:-Most sensitive indicator of carbapenemase production is non-susceptibility to

A:-Meropenem

B:-Doripenem

C:-Imipenem

D:-Ertapenem

Correct Answer:- Option-D

Question43:-Which is not a Back End Strategy of Antimicrobial Stewardship programme

A:-Sustainable than Front end strategy

B:-Prospective audit and feedback is an example

C:-Formulary restriction

D:-It is labour intensive than Front-end strategy

Correct Answer:- Option-C

Question44:-Types of EQA methods include

A:-Proficiency testing

B:-Rechecking or Retesting

C:-On-site evaluation

D:-All of the above

Correct Answer:- Option-D

Question45:-True about TSI agar is

A:-Ratio of sucrose to glucose is 1:10

B:-It can be used only when testing a bacterial species selected from a single colony recovered on primary or selective agar plates

C:-It is better than KIA for screening stool specimens for *Yersinia enterocolitica*

D:-It is more sensitive in the detection of hydrogen sulphide than SIM

Correct Answer:- Option-B

Question46:-Choose the correct statement about toxins produced by *Staphylococcus aureus*:

A:-Panton Valentine toxin is associated with HA-MRSA

B:- β hemolysin of *Staphylococcus aureus* is also known as synergohymenotropic toxin

C:-Hot-cold phenomenon is exhibited by α hemolysin

D:-Enterotoxin is a pyrogenic exotoxin superantigen

Correct Answer:- Option-D

Question47:-Ideally blood levels of vancomycin has to be monitored while treating MRSA infection. What is the trough level of Vancomycin?

A:-4-10 $\mu\text{g/mL}$

B:-10-20 $\mu\text{g/mL}$

C:-20-30 $\mu\text{g/mL}$

D:-30-40 $\mu\text{g/mL}$

Correct Answer:- Option-B

Question48:-All the tests listed below are useful in differentiating *Streptococcus pneumoniae* from Viridans streptococci

except:

A:-Bacitracin sensitivity

B:-Bile solubility

C:-Inulin fermentation

D:-Optochin sensitivity

Correct Answer:- Option-A

Question49:-Crystal violet blood agar is a selective medium for which bacterium?

A:-Streptococcus pyogenes

B:-Bacillus cereus

C:-Bacteroides fragilis

D:-Haemophilus ducreyi

Correct Answer:- Option-A

Question50:-Resistance in Streptococcus pneumonia against β lactams is due to:

A:-Presence of penicillinase enzymes

B:-Efflux pumps

C:-Altered penicillin binding proteins

D:-Decreased permeability across cell wall

Correct Answer:- Option-C

Question51:-Which among the following serogroup of Neisseria meningitidis is not associated with invasive disease?

A:-A

B:-B

C:-C

D:-D

Correct Answer:- Option-D

Question52:-Auxotyping is done for:

A:-Meningococci

B:-Streptococci

C:-Gonococci

D:-Enterococci

Correct Answer:- Option-C

Question53:-Choose the false statement regarding diphtheria toxin:

A:-The receptor for diphtheria toxin is heparin binding epidermal growth factor

B:-0.1 μ g/kg toxin can be lethal to susceptible individual

C:-Anti diphtheria antibody titres of ≥ 0.01 U/mL is protective

D:-Corynebacterium pseudodiphtheriticum produces diphtheria like toxin

Correct Answer:- Option-D

Question54:-Shanghai fever is caused by:

A:-Burkholderia cepacia

B:-Stenotrophomonas maltophilia

C:-Pseudomonas aeruginosa

D:-Corynebacterium jeikeium

Correct Answer:- Option-C

Question55:-Which secretion system is responsible for the secretion of Exotoxin A by Pseudomonas aeruginosa?

A:-Type I

B:-Type II

C:-Type III

D:-Type IV

Correct Answer:- Option-B

Question56:- δ -aminolevulinic acid agar test for Haemophilus influenzae is used to:

A:-Detect requirement of X factor

B:-Select out H.influenzae

C:-Detect requirement of V factor

D:-Enhance capsule formation

Correct Answer:- Option-A

Question57:-Acinetobacter baumannii is an established hospital pathogen. All the following statements are true regarding this agent EXCEPT:

A:-A.baumannii can be transmitted by airborne route

B:-Most important mechanism for drug resistance is by expression of β lactamases

C:-Sulbactam has intrinsic activity against A.baumannii

D:-Meropenem and ertapenem are effective in treating A.baumannii infections

Correct Answer:- Option-D

Question58:-Vibrio cholera toxin acts by

- A:-Glycosylate GTP binding protein
- B:-Elevated intracellular cGMP
- C:-ADP ribosylation of G protein
- D:-Inhibition of cAMP

Correct Answer:- Option-C

Question59:-Twenty two year old male who was severely injured following a road traffic accident was brought to casualty. He has completed the course of tetanus toxoid (TT) 10 years back. He should receive:

- A:-TT 1 dose + HTIG
- B:-TT 1 dose
- C:-TT complete dose
- D:-TT complete dose + HTIG

Correct Answer:- Option-A

Question60:-Preferred test to confirm H.pylori eradication is:

- A:-Culture
- B:-Urea breath test
- C:-Rapid urease test
- D:-Antibody detection

Correct Answer:- Option-B

Question61:-Colicin typing is done for:

- A:-S.dysenteriae
- B:-S.flexneri
- C:-S.boydii
- D:-S.sonnei

Correct Answer:- Option-D

Question62:-Screening for chronic carrier state following S.typhi infection is carried out by:

- A:-Widal test
- B:-Demonstrating Vi antigen
- C:-Detection of Vi antibodies
- D:-Nested PCR of serum sample

Correct Answer:- Option-C

Question63:-XDR TB is defined as:

- A:-Resistance to isoniazid and rifampicin irrespective of resistance to any other drug
- B:-Resistance to more than one drug other than co resistance to INH and rifampicin
- C:-MDR TB that also is resistant to fluoroquinolones and at least one injectable second-line drugs
- D:-MDR TB that is resistant to either one of the injectable second line drugs or fluoroquinolones

Correct Answer:- Option-C

Question64:-Choose the correct statement about the tests used for diagnosis of syphilis:

- A:-RPR and USR tests do not require a microscope to detect flocculation
- B:-In TPPA, tanned RBCs are coated with T.pallidum antigens
- C:-TPHA fails to detect CSF antibodies
- D:-Non treponemal tests are recommended to monitor treatment response

Correct Answer:- Option-D

Question65:-True about Leptospira interrogans:

- A:-It is a facultative anaerobe
- B:-Semisolid Fletcher's medium is useful in cultivating this bacterium
- C:-Levaditi staining is used to demonstrate L.interrogans
- D:-Serovar specific PCR tests are available

Correct Answer:- Option-B

Question66:-Chlamydia trachomatis serotypes D-K causes:

- A:-Genital chlamydiasis
- B:-Interstitial pneumonia
- C:-Atherosclerosis
- D:-Lymphogranuloma venereum

Correct Answer:- Option-A

Question67:-Choose the true statement regarding Mycoplasma pneumoniae:

- A:-Obligate intracellular parasites
- B:-Mycoplasmas are L forms

C:-Lung biopsy specimen typically lacks signs of inflammation

D:-Hydrogen peroxide plays a major role in pathogenesis

Correct Answer:- Option-D

Question68:-All the following are true with regards to Coxiella burnetii EXCEPT:

A:-Most common mode of transmission is by aerosol route

B:-Endocarditis is a major feature of chronic Q fever

C:-Anti-phase II IgG titre of > 6400 is diagnostic of chronic Q fever

D:-Doxycycline + hydroxychloroquine is used for treating Q fever

Correct Answer:- Option-C

Question69:-Transovarian transmission in vectors is seen in:

A:-Scrub typhus

B:-Endemic typhus

C:-Epidemic typhus

D:-Trench fever

Correct Answer:- Option-A

Question70:-How do catalase test for mycobacteria differ from that done for other bacteria?

A:-30% "H₂O₂" + 10% Tween 80

B:-1% "H₂O₂" + Phosphate buffer at pH 6.4%

C:-3% "H₂O₂" + 10% Tween 80

D:-10% "H₂O₂" + 0.85% saline

Correct Answer:- Option-A

Question71:-Hair perforation test is positive in

A:-Trichophyton violaceum

B:-Trichophyton mentagrophytes

C:-Trichophyton audouinii

D:-Trichophyton schoenleinii

Correct Answer:- Option-B

Question72:-Mode of infection of Ascaris lumbricoides

A:-Penetration of skin by larva

B:-Autoinfection

C:-Ingestion of eggs

D:-Ingestion of larva

Correct Answer:- Option-C

Question73:-True about microfilariae of Wuchereria bancrofti

A:-Sheathed, nuclei at the tail tip

B:-Sheathed, no nuclei at tail tip

C:-Unsheathed, no nuclei at tail tip

D:-Unsheathed and nuclei at tail tip

Correct Answer:- Option-B

Question74:-Dimorphic fungi causing subcutaneous mycosis

A:-Phialophora verrucosa

B:-Sporothrix schenckii

C:-Fonsecaea pedrosoi

D:-Cladosporium carrionii

Correct Answer:- Option-B

Question75:-Subtype of human immunodeficiency virus 1 more common in India.

A:-Subtype A

B:-Subtype B

C:-Subtype C

D:-Subtype D

Correct Answer:- Option-C

Question76:-Skin test for diagnosis of hydatid cyst

A:-Casoni's test

B:-Schick test

C:-Dick test

D:-Frei test

Correct Answer:- Option-A

Question77:-Immune complex mediated nephritis is seen in chronic infection with

A:-Plasmodium malariae

- B:-Plasmodium ovale
 - C:-Plasmodium vivax
 - D:-Plasmodium falciparum
- Correct Answer:- Option-A

Question78:-All are true about super carriers except

- A:-Highly infectious
- B:-High level of HBsAg, HBe Ag
- C:-Low level of HBsAg, no HBeAg
- D:-High level of HBV DNA, DNA polymerase

Correct Answer:- Option-C

Question79:-Commonest site of extra intestinal amoebiasis

- A:-Brain
- B:-Lung
- C:-Spleen
- D:-Liver

Correct Answer:- Option-D

Question80:-All are true about Histoplasma capsulatum var.duboisii except

- A:-Causes African histoplasmosis
- B:-Skin and bone involvement mainly
- C:-Yeast cells size 7-15 μm
- D:-Yeast cell size 2-4 μm

Correct Answer:- Option-D

Question81:-Genotype of Hepatitis C Virus with poor response to treatment

- A:-Genotype 1b
- B:-Genotype 1a
- C:-Genotype 2
- D:-Genotype 3

Correct Answer:- Option-A

Question82:-Highest mortality in pregnancy is associated with

- A:-Hepatitis A
- B:-Hepatitis B
- C:-Hepatitis E
- D:-Hepatitis D

Correct Answer:- Option-C

Question83:-All are true about Vaccine associated paralytic poliomyelitis except

- A:-Strains similar to oral polio virus
- B:-Seen in places where OPV is used extensively
- C:-Common serotype Sabin type 3
- D:-High level genetic divergence from OPV strain

Correct Answer:- Option-D

Question84:-True about Antigenic drift

- A:-Point mutation
- B:-Results in pandemics
- C:-Occurs in influenza A virus
- D:-Occurs every 10-20 years

Correct Answer:- Option-A

Question85:-Koplik's spots are pathognomonic of

- A:-Measles
- B:-Mumps
- C:-Rubella
- D:-Chicken pox

Correct Answer:- Option-A

Question86:-Nipah virus belongs to

- A:-Paramyxovirus
- B:-Orthomyxovirus
- C:-Picorna virus
- D:-Enterovirus

Correct Answer:- Option-A

Question87:-All are true about Negri bodies except

- A:-Intracytoplasmic eosinophilic inclusions
 - B:-Common in cerebellum, hippocampus
 - C:-2-10 μ size
 - D:-Its absence rule out diagnosis of Rabies
- Correct Answer:- Option-D

Question88:-Rabies vaccine is prepared from

- A:-Street virus
- B:-Fixed virus
- C:-Live virus
- D:-Wild virus

Correct Answer:- Option-B

Question89:-All are human prion disease except

- A:-Kuru
- B:-Classical Creutzfeldt Jakob disease
- C:-Sub acute sclerosing panencephalitis
- D:-Straussler-Scheinker syndrome

Correct Answer:- Option-C

Question90:-All are Epstein Barr Virus associated malignancy except

- A:-Burkitt's lymphoma
- B:-Hodgkin's lymphoma
- C:-Non-Hodgkin's lymphoma
- D:-Hepatocellular carcinoma

Correct Answer:- Option-D

Question91:-All are true about chickenpox in pregnancy except

- A:-Not teratogenic
- B:-Mothers at risk of varicella pneumonia
- C:-Congenital infection more in 2nd half
- D:-Congenital infections rare in 1st half

Correct Answer:- Option-A

Question92:-Characteristic cytopathic effect of herpes simplex

- A:-Diffuse rounding and ballooning
- B:-Syncytium or multinucleated giant cells
- C:-Crenation and degeneration
- D:-Cytoplasmic vacuolation

Correct Answer:- Option-A

Question93:-Which serotype of Dengue virus is more dangerous?

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

Correct Answer:- Option-B

Question94:-All the following are the genotypes of chikungunea virus except

- A:-West African
- B:-East African
- C:-Asian
- D:-North American

Correct Answer:- Option-D

Question95:-Commonest clinical presentation of mumps

- A:-Aseptic meningitis
- B:-Bilateral parotitis
- C:-Epididymo orchitis
- D:-Pancreatitis

Correct Answer:- Option-B

Question96:-Suckling mouse can be used for viral isolation of

- A:-Coxsackie virus
- B:-Mumps virus
- C:-Measles virus
- D:-Influenza virus

Correct Answer:- Option-A

Question97:-All are true about chicken pox vaccine except

A:-Live vaccine

B:-One dose for adults

C:-Oka strain given

D:-2 doses for children

Correct Answer:- Option-B

Question98:-Germ tube test is positive for

A:-Candida albicans

B:-Candida glabrata

C:-Candida krusei

D:-Candida tropicalis

Correct Answer:- Option-A

Question99:-Following are true about Cryptococcus except

A:-Serotypes of Cryptococcus - A, B, C, D

B:-C.neoformans seen in pigeon droppings

C:-Capsule is main virulence factor

D:-C.neoformans inhabits in eucalyptus tree

Correct Answer:- Option-D

Question100:-Virus producing haemorrhagic fever

A:-Kyasanur forest disease virus

B:-Japanese B.encephalitis virus

C:-Chandipura virus

D:-West Nile virus

Correct Answer:- Option-A