FINAL 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 Medical Education Department 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:-Odissha 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 Ouestion18:-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 > IgG2B:-lgG1 > lgG2 > lgM > lgG3C:-IgG1 > IgM > IgG2 > IgG3D:-IgG3 > IgG2 > IgG1 > IgMCorrect 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:-Oudine 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:-Heriditary 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 erythematosis D:-Leptospirosis Correct Answer:- Option-D Question37:-Sorbitol Mac Conkey agar is used for laboratry diagnosis of A:-EHEC B:-ETEC C:-EPEC D:-FIFC 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 substituite 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 µg/mL B:-10-20 µg/mL C:-20-30 µg/mL D:-30-40 µg/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 Question 50:-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 menigitidis 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 µg/kg toxin can be lethal to susceptible individual C:-Anti diphtheria antibody titres of \geq 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 auruginosa 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:-\delta-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:-Sulbactum 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 fluoroguinolones 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 + hydroxychoroguine 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% `"H_2O_2"` + 10% Tween 80 B:-1% `"H 2O 2"` + Phosphate buffer at pH 6.4% C:-3% `"H_2O_2"` + 10% Tween 80 D:-10% `"H_20 2"` + 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 terratogenic 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 roundening and ballooning B:-Syncitium or multinucleated giant cells C:-Crenation and degeneration D:-Cytoplasmic vacoulation 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