FINAL ANSWER KEY

Question Paper Code: 11/2018/OL Category Code: 428/2016

Exam: Lecturer in Microbiology

Medium of Question: English
Date of Test 20-02-2018

Department Collegiate Education

Alphacode A

Question1:-The social reformer who wrote Soundarayalahari

A:-Sree Narayana Guru

B:-Sankaracharya

C:-Vivekananda

D:-Chattampi Swamikal

Correct Answer:- Option-B

Question2:-The movement started against the administrative reforms introduced in Travancore in 1932

A:-Nivarthana Agitation

B:-Malayalee Memorial

C:-Ezhava Memorial

D:-Channar Agitation

Correct Answer: - Option-A

Question3:-Barrister G.P. Pillai is associated with

A:-Malayalee Memorial

B:-Ezhava Memorial

C:-Nivarthana Agitation

D:-Channar Agitation

Correct Answer:- Option-A

Question4:-Kumaran Asan's Veena Poovu was published for the first time in

A:-Malayalee

B:-Yukthivadi

C:-Kesari

D:-Mitavadi

Correct Answer:- Option-D

Question5:-Which woman leader of Travancore organized the Female Volunteer Corps called Desasevika Sangham?

A:-A.V. Kuttimalu Amma

B:-Arya Prabhu

C:-Accamma Cherian

D:-Anna Chandy

Correct Answer:- Option-C

Question6:-The first woman to be the Chairperson of State Bank of India

A:-Kiran Mazumdar

B:-Arundhathi Chatterjee

C:-Indra Nooyi

D:-Arundhati Bhattacharya

Correct Answer:- Option-D

Question7:-Who is the author of 'From earth to the Moon'?

A:-Edwin Aldrin

B:-Jules Verni

C:-Neil Armstrong

D:-Rakesh Sharma

Correct Answer:- Option-B

Question8:-Storting is the name of the Parliament in

A:-Denmark

B:-Jordan

C:-Norway

D:-Switzerland

Correct Answer:- Option-C

Question9:-The recipient of Ezhuthachan Award 2017

A:-Sachidanandhan B:-M.K. Sanu C:-M.T. Vasudevan Nair
D:-C. Radha Krishnan
Correct Answer:- Option-A
Question10:-National Food Security Act was passed by Indian Parliament in the year
A:-2012
B:-2013
C:-2014
D:-2015
Correct Answer:- Option-B
Question11:-The concept of school complex was first started in
A:-Kerala
B:-Rajasthan
C:-Karnataka
D:-Gujarat
Correct Answer:- Option-B
Question12:-Father of Psychoanalysis is
A:-Jerome S. Bruner
B:-Albert Bandura
C:-Sigmund Freud
D:-B.F. Skinner
Correct Answer:- Option-C
Question13:-If a teacher happens to commit a mistake in class, what is the right choice he/she has to take?
A:-avoid it
B:-admit it
C:-justify it D:-none of these
Correct Answer:- Option-B
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Question14:-Close-ended type questions are questions provided with
A:-agree-disagree answers B:-yes or no answers
C:-multiple type answers
D:-no answers
Correct Answer:- Option-B
Question15:-You are adopting variety of tasks to ensure each and every students learning. Which theory would influence
you more? A:-Piaget's cognitive development theory
B:-Gardner's multiple intelligence theory
C:-Vygotsky's socio-cultural theory
D:-Kurt Lewin's field theory
Correct Answer:- Option-B
Question16:-A researcher does not fix the ultimate size of the sample in advance but determines according to mathematical
decisions on the basis of information yielded as data collection progresses. This is technically called
A:-Systematic sampling
B:-Random sampling
C:-Sequential sampling
D:-Quota sampling
Correct Answer:- Option-C
Question17:-Validity of a research can be ensured by
1. avoiding the extraneous variables
2. taking the true representation sample of the population

3. stratified sample

4. only field study

A:-(1) and (3) correct B:-(1) and (4) correct

Qι	D:-(1) and (2) correct Correct Answer:- Option-D uestion18:-Rearrange the following in appropriate order :
1.	Formulating hypothesis
2.	Data analysis and interpretation
3.	Developing research questions
	Preparation of the report A:-1, 2, 3, 4 B:-1, 3, 2, 4 C:-2, 1, 3, 4 D:-3, 1, 2, 4 Correct Answer:- Option-D uestion19:-Which of the following is not a characteristic of action research?
i.	Results are generalizable
ii.	Hypotheses were tested
iii.	Developed a theory
iv.	Data were qualitative A:-i, ii and iii B:-i, ii and iv C:-i, iii and iv D:-ii, iii and iv Correct Answer:- Option-A
Qι	uestion20:-The research ethics means A:-the quality of the research B:-proved a particular point intentionally C:-the quantity of the research D:-all of the above Correct Answer:- Option-A
Qı	uestion21:-Which of the following is not a salient feature of Indian Constitution? A:-Single citizenship B:-Presidential system C:-Fundamental rights D:-Judicial review Correct Answer:- Option-B
Qı	uestion22:-Economic and social planning is a subject included in the A:-Concurrent list B:-State list C:-Residuary powers D:-Union list Correct Answer:- Option-A
	uestion23:-Article 19 (1) (c) of the Indian Constitution is related to A:-Right to assemble peaceably and without arms B:-Right to freedom of speech and expression C:-Right to reside and settle in any part of the territory of India D:-Right to form associations or unions Correct Answer:- Option-D uestion24:-The UPSC have on July 19, 2000 constituted a committee to review the existing scheme of civil service
	xamination under the chairmanship of A:-Prof. Y.K. Alagh B:-Dr. B.P. Mathur C:-Prof. M. Anandakrishnan D:-Shri. P.C. Hota Correct Answer:- Option-A

C:-(1), (2) and (3) correct

Question 25:-Which of the following constitution amendment act is related with the disgualification of a member of either House of Parliament on the grounds of defection from his party? A:-The Constitution 50th Amendment Act B:-The Constitution 52nd Amendment Act C:-The Constitution 54th Amendment Act D:-The Constitution 56th Amendment Act Correct Answer:- Option-B Question26:-"Record" is defined under of the Right to Information Act, 2005. A:-Section 2(a) B:-Section 2(f) C:-Section 2(h) D:-Section 2(i) Correct Answer:- Option-D Question 27:- The day on which the Protection of Children from Sexual Offences Act, 2012 received the assent of the President of India A:-11th June 2012 B:-19th June 2012 C:-26th June 2012 D:-29th June 2012 Correct Answer:- Option-B Question28:-The National Commission for Women shall consist of A:-A Chairperson, four other members and a member secretary B:-A Chairperson, six other members and a member secretary C:-A Chairperson, three other members and a member secretary D:-A Chairperson, five other members and a member secretary Correct Answer:- Option-D Question29:-Which of the following programme was introduced to assist the poor families living below the poverty line in rural areas for taking up self employment? A:-Pradhan Mantri Gramodaya Yojana B:-Sampoorna Grameen Rozgar Yojana C:-Swarnjayanti Gram Swarozgar Yojana D:-Jawahar Gram Samridhi Yojana Correct Answer:- Option-C Question30:-Chairperson and every member of the state food commission shall hold office for a term not exceeding A:-Five years B:-Three years C:-Six years D:-Four years Correct Answer: - Option-A Question31:-Hopanoids are present in which part of bacterial cell? A:-Cell membrane B:-Cell wall C:-Cvtoplasm D:-Nucleoid Correct Answer: - Option-A Question32:-Standard reference text for bacterial classification A:-Baltimore's classification B:-Zimmer's catalogue C:-Bergey's manual D:-Bentham and Hooker's classification Correct Answer:- Option-C Question33:-Volutin granules can be demonstrated by which of the following staining methods? A:-Gram's staining B:-LPCB C:-Acid fast staining D:-Albert's stain Correct Answer:- Option-D Question34:-Which one of the following is a test for diagnosis of typhoid? A:-ASO test B:-Widal test

C:-VDRL test
D:-TPHA test
Correct Answer:- Option-B
Question35:-The temperature and holding period for routine autoclaving are
A:-`160^(@)C` for 1 second
B:-`121^(@)C` for 15 minutes
C:-`115^(@)C` for 10 minutes
D:-`130^(@)C` for 15 seconds
Correct Answer:- Option-B
Question36:-Which of the following staining techniques is used to demonstrate Spirochaetes in tissues?
A:-Malachite green stain
B:-Acid fast staining
C:-Fontana's stain
D:-LPCB stain
Correct Answer:-Question Cancelled
Question37:-The term latrogenic infection is also known as
A:-Physician induced infection
B:-Subclinical infections
C:-Hospital acquired infection
D:-Blood borne infection
Correct Answer:- Option-A
Question38:- is a major component of biogas.
A:-Alkane
B:-Butane
C:-Ethane
D:-Methane
Correct Answer:- Option-D
Question39:-Phenyl acetic acid added to the fermentation media for penicillin production is a
A:-Inducer
B:-Inhibitor
C:-Precursor
D:-Mordant
Correct Answer:- Option-C
Question40:-Baffles are used in fermenters for providing
A:-Acidification
B:-Agitation
C:-Antifoam
D:-None of the above
Correct Answer:- Option-B
Question41:-You are provided with a sputum sample of a suspected case of tuberculosis. The smear prepared with the
sample is stained with which of the following staining methods.
A:-Lactophenol Cotton Blue stain
B:-Albert's stain
C:-Fontana's stain
D:-Ziehl-Neelsen stain
Correct Answer:- Option-D
Question42:-Numerical taxonomy is otherwise called as
A:-Adansonian classification
B:-Molecular classification
C:-Adamson classification
D:-None of the above
Correct Answer:- Option-A
Question43:-Carboxysomes is the site fore which of the following reactions?
A:-Nitrogen fixation B:-`CO (2)` fixation
C:-Reduction of `CO (2)`
D:-None of the above
Correct Answer:- Option-B
Question44:-String test is used to identify which of the following bacteria?
question++string test is used to identity which of the following bacteria:

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A:-Vibrio spp.
     B:-Salmonella typhi
     C:-E. coli
     D:-Shigella sp.
     Correct Answer: - Option-A
Question45:-Cholera red reaction is due to which of the following?
     A:-Methyl red and VP test
     B:-Indole and Methyl red test
     C:-Indole and nitrate reduction test
     D:-Urease and nitrate reduction test
     Correct Answer:- Option-C
Question46:-DPT is used for protection against
     A:-Dysentry, polio and tetanus
     B:-Diarrhoea, pyrexia and tetanus
     C:-Diphtheria, polio and tetanus
     D:-Diphtheria, whooping cough and tetanus
     Correct Answer:- Option-D
Question47:-Which of the following is called 'the millionaire molecule'?
     A:-IgM
     B:-lgE
     C:-lgA
     D:-lgD
     Correct Answer: - Option-A
Question48:-Bence Jones protein is associated with which of the following diseases?
     A:-Jaundice
     B:-Multiple myeloma
     C:-Diabetes
     D:-Mycotic infections
     Correct Answer:- Option-B
Question49:-Weil-Felix test is used for the diagnosis of which of the following diseases?
     A:-Tetanus
     B:-Tuberculosis
     C:-Typhus fevers
     D:-Typhoid fever
     Correct Answer:- Option-C
Question50:-Smallest unit of antigenicity is known as ______.
    A:-Antigen
     B:-Antibody
     C:-Haptens
     D:-Epitope
     Correct Answer:- Option-D
Question51:-Pasteurization is defined as
     A:-Heating to 62.8°C for 30 seconds
     B:-Heating to 68.1°C for 80 seconds
     C:-Heating to 71.7°C for 15 seconds
     D:-Heating to 82.5°C for 10 minutes
     Correct Answer:- Option-C
Question52:-Hybridomas can be isolated using which of the following media?
     A:-Hypoxanthine-Aminopterin-Thymidine medium
     B:-Eagle's Minimum Essential Medium
     C:-Murashige and Skoog medium
     D:-Hypoxanthine-Aminoglycoside-Thymine medium
     Correct Answer: - Option-A
Question53:-Shingles is caused by reactivation of which of the following viruses?
     A:-Rubella virus
     B:-Varicella Zoster virus
     C:-Shope Fibroma virus
     D:-Respiratory Syncytial virus
     Correct Answer:- Option-B
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Question54:-Lyophilization is otherwise called
A:-Freeze thawing
B:-Freeze etching
C:-Freeze fracturing
D:-Freeze drying
Correct Answer:- Option-D
Question55:-Which one of the following is a capsulated pathogenic yeast?
A:-Schizosaccharomyces pombe
B:-Aspergillus flavus
C:-Saccharomyces cerevisiae
D:-Cryptococcus neoformans
Correct Answer:- Option-D
Question56:-Penicillin is an example for a
A:-Aminoglycoside
B:-Polyene antibiotic
C:-β-lactam antibiotic
D:-Polypeptide antibiotic
Correct Answer:- Option-C
Question57:-Gram stained smear a of CSF sample shows the presence of gram negative diplococci. Which one of the following the organisms is most likely to be isolated from the sample?
A:-N. gonorrhoeae
B:-N. meningitidis
C:-Streptococcus pneumoniae
D:-Streptococcus pyogenes
Correct Answer:- Option-B
Question58:-Nitrogen fixing symbiotic organism present in the leaves of Azolla is A:-Anabaena
B:-Alosira
C:-Azospirillum
D:-Rhizobium
Correct Answer:- Option-A
Question59:-Denitrification refers to which of the following processes?
A:-Production of ammonia form amino acids
B:-Conversion of nitrogen to ammonia
C:-Conversion of nitrates to nitrogen
D:-Conversion of ammonia to nitrate
Correct Answer:- Option-C
Question60:-Which one of the following is considered to be an indicator of water pollution?
A:-N. gonorrhoeae
B:-E. Coli
C:-Haemophilus influenzae
D:-Streptococcus pyogenes
Correct Answer:- Option-B
Question61:-Phosphatase test is used to test the efficacy of which of the following processes?
A:-Pasteurization
B:-Canning
C:-Cold sterilization
D:-None of the above
Correct Answer:- Option-A
Question62:-Which of the following is not used for disinfection of water?
A:-Chlorine
B:-Ultra violet rays
C:-Ozone
D:-Mercuric chloride
Correct Answer:- Option-D
Question63:-Botulinum toxin acts by which of the following mechanism?
A:-Exerts its effects on the cyclic AMP system
B:-Causes lysis of RBC's
C:-Blocks the release of acetylcholine, at the neuromuscular junction

D:-Transfer of ADP-ribose to elongation factor-2, inhibiting protein sy	nthesis
Correct Answer:- Option-C	
Question64:-Which of the following is considered to be the optimum temp	erature range for the growth of psychrophiles?
A:-20-37°C	
B:-80-110°C	
C:-45-65°C	
D:-0-15°C	
Correct Answer:- Option-D	
Question65:-Which of the following is not used for the cultivation of viruse	es?
A:-Cell cultures	
B:-Blood agar	
C:-Animals	
D:-Embryonated eggs	
Correct Answer:- Option-B	
Question66:-Citric acid production is done with the help of which of the fo	llowing
A:-Aspergillus niger	
B:-Aspergillus flavus	
C:-Penicillium chyrsogenum	
D:-Sacharomyces cerevisiae	
Correct Answer:- Option-A	
Question67:-Which of the following methods is used to demonstrate antib	iotic sensitivity?
A:-Roll tube technique	
B:-Slide Culture technique	
C:-Stokes' method	
D:-Standard Plate count	
Correct Answer:- Option-C	
Question68:-Strain improvement for industrial fermentation can be achieved	yed by which of the following methods
A:-Parasexual hybridization	
B:-UV mutagenesis	
C:-Protoplast fusion	
D:-All of the above	
Correct Answer:- Option-D	
Question69:-Downstream process is used for	
A:-Extraction of product	
B:-Preparation of media	
C:-Sterilization of media	
D:-None of the above	
Correct Answer:- Option-A	
Question70:-Hiss's serum water medium is used to study fermentation rea	actions in case of which of the following bacteria
A:-Staphylococcus aureus	
B:-Streptococcus pneumoniae	
C:-E. Coli	
D:-Salmonella typhi	
Correct Answer:- Option-B	
Question71:-The colonies of E. coli growing on EMB agar appear as	
A:-Dark centered colonies with green metallic sheen	
B:-Pink coloured colonies with dark centres	
C:-Yellow coloured colonies	
D:-Blue colonies	
Correct Answer:- Option-A	
Question72:-Flagella seen in Vibrio cholerae can be described as	_,
A:-Peritrichous flagella	
B:-Bipolar	
C:-Lophotrichous	
D:-Single polar flagellum	
Correct Answer:- Option-D	
Question73:-Which of the following descriptions best suits a mycorrhizae?	
A:-Symbiotic association between a fungus and an algae	

 $\ensuremath{\mathsf{B}}\xspace\textsc{:-Symbiotic}$ association between an actinomycete and fungus

	C:-Symbiotic association between a fungus and roots of a vascular plant
	D:-None of the above
	Correct Answer:- Option-C
Que	estion74:-Nisin is defined as which one of the following?
	A:-Nucleotide, toxic to nerves
	B:-Peptide, lantibiotic used as food preservative
	C:-Carbohydrate with antimicrobial properties
	D:-None of the above
_	Correct Answer:- Option-B
	estion75:-The ratio of the water vapour pressure of food substrate to the vapour pressure of pure water at the same uperature is known as
	A:-Water activity
	B:-Water pressure
	C:-Partial pressure of water
	D:-None of the above
	Correct Answer:- Option-A
Que	estion76:-Azotobacter is
	A:-a plant pathogenic bacteria
	B:-used for production of acetic acid
	C:-free living bacteria which can fix nitrogen
	D:-none of the above
	Correct Answer:- Option-C
Que	estion77:-Secondary metabolites are produced during which phase of growth cycle of a microbe?
	A:-Log phase
	B:-Stationary phase
	C:-Lag phase
	D:-None of the above
	Correct Answer:- Option-B
Que	estion78:-The term 12D treatment refers to which of the following processes?
	A:-Process which destroys psychrophilic bacteria
	B:-Heat treatment sufficient to kill 12 bacteria
	C:-12 different treatments used to preserve food
	D:-a `10^(12)` reduction in C. botulinum endospores
O	Correct Answer:- Option-D estion79:-Which one of the following reactions is considered to be undesirable in the process of wine-making?
Que	A:-Conversion of glucose to pyruvic acid
	B:-Conversion of ethanol to acetic acid
	C:-Conversion of sucrose to ethanol
	D:-All of the above
	Correct Answer:- Option-B
Oue	estion80:-You have isolated a non-motile gram-positive cell with no visible nucleus. This cell will definitely posses which
	he following?
	A:-Ribosome
	B:-Lysosome
	C:-Mitochondria
	D:-Golgi complex
	Correct Answer:- Option-A
Que	estion81:-Spirochaetes move with the help of which of the following?
	A:-pseudopodia
	B:-peritrichous flagella
	C:-axial filaments
	D:-pili
^	Correct Answer:- Option-C
Que	estion82:-Branching filamentous bacteria are known as
	A:-Archaebacteria
	B:-Agaricus C:-Aspergillus
	D:-Actinomycetes
	Correct Answer:- Option-D
	Confect Anomen. Option D

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Question83:-Leprosy is known as
    A:-Lancefield disease
     B:-Hansen's disease
     C:-Addison's disease
     D:-Leeuwenhoek's disease
     Correct Answer:- Option-B
Question84:-The Ghon complex, a lesion in the lung and regional lymph node is found in which of the following diseases?
     A:-Primary tuberculosis
     B:-Tuberculoid leprosy
     C:-Pneumonia
     D:-Influenza
     Correct Answer: - Option-A
Question85:-Bile esculin test is used to distinguish which of the following bacteria?
     A:-Pneumococci
     B:-Group B streptococci
     C:-Staphylococci
     D:-Group D streptococci
     Correct Answer:- Option-D
Question86:-Which of the following is a predatory bacteria?
     A:-Streptomyces
     B:-Bacillus
     C:-Bdellovibro
     D:-Pseudomonas
     Correct Answer:- Option-C
Question87:-Kauffmann-White Scheme is used for serotyping of which of the following bacteria?
    A:-Salmonella
     B:-Shigella
     C:-Streptococcus
     D:-Vibrio
     Correct Answer:- Option-A
Question88:-MacConkey's agar is a
     A:-differential medium
     B:-selective and differential medium
     C:-selective medium
     D:-enriched medium
     Correct Answer:- Option-B
Question89:-Physiologically and metabolically uniform cell population is obtained during which of the following phases of
growth
     A:-Death phase
     B:-Stationary phase
     C:-Log phase
     D:-Lag phase
     Correct Answer:- Option-C
Question90:-Which of the following methods is used to sterilise L-J medium?
    A:-Pasteurization
     B:-Autoclaving
     C:-Hot-air oven
     D:-Inspissation
     Correct Answer:- Option-D
Question91:-Malaria is caused by which of the following?
     A:-Macromonas
     B:-Micrococcus
     C:-Paramecium
     D:-Plasmodium
     Correct Answer:- Option-D
Question92:-Rabies is caused by
     A:-Rickettsia
     B:-Rhabdovirus
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C:-Rubella virus

D:-Rotavirus Correct Answer:- Option-B Question93:-Candida albicans does not show which the following characteristics? A:-Budding Gram positive cells B:-Reynolds-Braude phenomenon C:-Tuberculate spores D:-Pseudomycelia Correct Answer:- Option-C Question94:-When an infective female Anopheles mosquito bites a human being which of the following is introduced into the human body? A:-Sporozoites B:-Signet ring stage C:-Gametocytes D:-Merozoites Correct Answer: - Option-A Question95:-Which of the following is not usually used for cultivation of fungi? A:-Cell culture B:-SDA C:-PDA D:-Rose Bengal Agar Correct Answer: - Option-A Question96:-Characteristic intracytoplasmic inclusion bodies associated with rabies virus infection is known as A:-Guarnieri bodies B:-Negri bodies C:-Bollinger bodies D:-Cowdry type a inclusions Correct Answer:- Option-B Question 97:- Which of the following tests are used as confirmatory test for diagnosis of HIV infection? A:-Whey agglutination test B:-VDRL test C:-Widal test D:-Western Blot Correct Answer:- Option-D Question98:-Eijkman test is carried out at which the following temperatures? A:-37°C B:-25°C C:-44°C D:-54°C Correct Answer:- Option-C Question99:-Otomycosis refers to infection of which part of the body? A:-thiah B:-ear C:-eye D:-throat Correct Answer:- Option-B Question100:-Which of the following is used for determination of efficacy of moist-heat sterilisation? A:-spores of Bacillus cereus B:-cells of Salmonella typhi C:-cells of clostridium tetani D:-spores of Bacillus stearothermophilus

Correct Answer:- Option-D