

# National Testing Agency

**Question Paper Name:** Advanced Microbiology  
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**Actual Answer Key:** Yes

## Advanced Microbiology

**Group Number :** 1  
**Group Id :** 41652925  
**Group Maximum Duration :** 0  
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**Break time:** 0  
**Group Marks:** 100

## Advanced Microbiology

**Section Id :** 41652925  
**Section Number :** 1  
**Section type :** Online  
**Mandatory or Optional:** Mandatory  
**Number of Questions:** 100  
**Number of Questions to be attempted:** 100  
**Section Marks:** 100  
**Display Number Panel:** Yes  
**Group All Questions:** No

**Sub-Section Number:** 1  
**Sub-Section Id:** 41652926  
**Question Shuffling Allowed :** Yes

**Question Number : 1 Question Id : 4165291966 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which one of the following viruses replicate in the cytoplasm?

- a. SV40
- b. Adenovirus
- c. Vaccinia virus
- d. Herpes simplex virus

**Question Number : 2 Question Id : 4165291967 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which consists of a nucleic acid genome packaged into a protein coat (capsid) or a membrane (envelope)?

- a. Virus
- b. Virion
- c. Capsomere
- d. Pentamer

**Question Number : 3 Question Id : 4165291968 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

What viral replication step takes place after the attachment and penetration phase?

- a. Uncoating
- b. Replication
- c. Protein synthesis
- d. Assembly

**Question Number : 4 Question Id : 4165291969 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following best describes burst size?

- a. Number of viruses entering a cell to cause infection
- b. Number of viruses that can enter a cell
- c. Yield of infectious viruses per cell
- d. Yield of viral particles per cell (including defective particles)

**Question Number : 5 Question Id : 4165291970 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The bacteriophage M13 contains as its genetic material

- a. Single stranded RNA
- b. Double stranded RNA
- c. Single stranded DNA
- d. Double stranded DNA

**Question Number : 6 Question Id : 4165291971 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

An envelope is acquired during which of the following steps?

- a. Penetration
- b. Release
- c. Lysis
- d. Assembly

**Question Number : 7 Question Id : 4165291972 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Hydroxymethyl cytosine is found in the DNA of

- a. Simian virus 40
- b. T4 phage
- c. QB phage
- d. Adenovirus

**Question Number : 8 Question Id : 4165291973 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which one of the following viruses contains both DNA and RNA?

- a. Cyanophage
- b. Herpes virus
- c. Leukovirus
- d. Polio virus

**Question Number : 9 Question Id : 4165291974 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

HIV, a retrovirus, contains

- a. Two copies of negative sense ssRNA
- b. One ssRNA
- c. Two copies of dsRNA
- d. Two copies of positive sense ssRNA

**Question Number : 10 Question Id : 4165291975 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Bacteriophage are readily counted by the process of

- a. Immunoassays
- b. Plaque assays
- c. Electron microscopy
- d. ELISA

**Question Number : 11 Question Id : 4165291976 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Interferons inhibit

- a. Viral uncoating
- b. Viral lysis
- c. Viral mRNA translation
- d. Viral adsorption to host cells

**Question Number : 12 Question Id : 4165291977 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which one of the following has helical symmetry?

- a. Adenovirus
- b. Influenza virus
- c. Herpes virus
- d. Parvo virus

**Question Number : 13 Question Id : 4165291978 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

A virion is a

- a. Naked, infectious piece of RNA
- b. Complete infectious particle
- c. Nucleic acid without a capsid
- d. A naked, infectious piece of DNA

**Question Number : 14 Question Id : 4165291979 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following would be the first step in the biosynthesis of a virus with reverse transcriptase?

- a. A complementary strand of RNA must be synthesized
- b. Double stranded RNA must be synthesized
- c. A complementary strand of RNA must be synthesized from a RNA template
- d. A complementary strand of DNA must be synthesized from a RNA template

**Question Number : 15 Question Id : 4165291980 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

What is the shape of T4 bacteriophage head?

- a. Cubic
- b. Icosahedron
- c. Triangular
- d. Spherical

**Question Number : 16 Question Id : 4165291981 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

What is the length of T4 genome?

- a. 159 kbp
- b. 169 kbp
- c. 179 kbp
- d. 189 kbp

**Question Number : 17 Question Id : 4165291982 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

What is terminal redundancy?

- a. Presence of inverted repeats inside the linear genome
- b. Presence of direct repeats at both ends of linear genome
- c. Presence of inverted repeats at both ends of linear genome
- d. Presence of direct repeats inside the genome

**Question Number : 18 Question Id : 4165291983 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

T4 has a terminal redundancy of

- a. 1600 bps
- b. 160 bps
- c. 160 kbps
- d. 16 kbps

**Question Number : 19 Question Id : 4165291984 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

What is the unusual base present in T4 genome?

- a. 5-methyl cytosine
- b. 5-hydroxyethyl cytosine
- c. 5-hydroxymethyl cytosine
- d. 5-hydroxypropyl cytosine

**Question Number : 20 Question Id : 4165291985 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Name the enzyme that modifies cytosine into hydroxymethyl cytosine?

- a. T4 hydroxylase
- b. T4 hydroxymethylase
- c. T4 hydrolase
- d. T4 methylase

**Question Number : 21 Question Id : 4165291986 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

How many early, middle and late promoters are present in T4 genome?

- a. 39, 30 and 40 respectively
- b. 39, 25 and 50 respectively
- c. 39, 30 and 50 respectively
- d. 30, 30 and 50 respectively

**Question Number : 22 Question Id : 4165291987 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Name the enzyme of T4 which ADP ribosylates alpha subunit of RNA polymerase just after entry of the T4 DNA into the host.

- a. Mod A
- b. Mod B
- c. gp modA
- d. gp Alt

**Question Number : 23 Question Id : 4165291988 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

T4 genome replicates in

- a. 2 phases
- b. 3 phases
- c. 1 phase
- d. 4 phases

**Question Number : 24 Question Id : 4165291989 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Name the enzyme(s) which helps the progeny viruses to lyse the host cell.

- a. Holin and mot A
- b. Holin and lysin
- c. Holin and gp5
- d. Holin and gp55

**Question Number : 25 Question Id : 4165291990 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

$\lambda$  repressor resembles

- a. LexA
- b. SSB
- c. Red
- d. Gam

**Question Number : 26 Question Id : 4165291991 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Retroregulation in lambda genome is regulated by

- a. RNaseIII cleavage site
- b. RNaseII cleavage site
- c. cI protein
- d. Cro protein

**Question Number : 27 Question Id : 4165291992 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following is not a characteristic of fungi?

- a. They are all absorptive heterotrophs
- b. They have cell walls made of chitin
- c. They are eukaryotic heterotrophs
- d. They always have motile stages

**Question Number : 28 Question Id : 4165291993 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The branch of biology dealing with the study of fungi is called

- a. Phycology
- b. Mycology
- c. Virology
- d. Numerology

**Question Number : 29 Question Id : 4165291994 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Thread-like branches of mycelium are called

- a. Filament
- b. Hyphae
- c. Sporangiohores
- d. Haustoria

**Question Number : 30 Question Id : 4165291995 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Dolipore septum occurs in

- a. Phycomycetes
- b. Zygomycetes
- c. Ascomycetes
- d. Basidiomycetes

**Question Number : 31 Question Id : 4165291996 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Late blight of potato is caused by

- a. *Alternaria solani*
- b. *Helminthosporium*
- c. *Phytophthora infestans*
- d. *Sclerospora graminicola*

**Question Number : 32 Question Id : 4165291997 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

*Sachharomyces cerevisiae* is

- a. Baker's yeast
- b. Beer yeast
- c. Both (a) and (b)
- d. Wine yeast

**Question Number : 33 Question Id : 4165291998 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Penicillin was first discovered by

- a. Alexander Fleming
- b. Robert Koch
- c. S. Waksman
- d. Louis Pasteur

**Question Number : 34 Question Id : 4165291999 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Mycorrhiza is

- a. Root-like underground stem
- b. Root-fungus association
- c. Algal-fungus association
- d. Parasitic root

**Question Number : 35 Question Id : 4165292000 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Fungus used in genetic experiments is

- a. Neurospora
- b. Rhizopus
- c. Mucor
- d. Claviceps

**Question Number : 36 Question Id : 4165292001 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Edible part of mushroom is

- a. Basidiocarp
- b. Primary mycelium
- c. Basidiospores
- d. Fungal hyphae

**Question Number : 37 Question Id : 4165292002 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Bread mould is

- a. Alternaria
- b. Rhizopus
- c. Penicillium
- d. Aspergillus

**Question Number : 38 Question Id : 4165292003 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Fungi imperfect is

- a. Phycomycetes
- b. Ascomycetes
- c. Basidiomycetes
- d. Deuteromycetes

**Question Number : 39 Question Id : 4165292004 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which is not a mode of reproduction in yeast?

- a. Fission
- b. Budding
- c. Oogamy
- d. Plasmogamy

**Question Number : 40 Question Id : 4165292005 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Yeast is an important source of

- a. Proteins
- b. Riboflavin
- c. Vitamin C
- d. Sugars

**Question Number : 41 Question Id : 4165292006 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following is an edible fungus?

- a. Rhizopus
- b. Agaricus
- c. Helminthosporium
- d. Polyporus

**Question Number : 42 Question Id : 4165292007 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Deuteromycetes lack

- a. Sexual reproduction
- b. Asexual reproduction
- c. Spores
- d. Hyphae

**Question Number : 43 Question Id : 4165292008 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following cells or structures are associated with asexual reproduction of fungi?

- a. Ascospores
- b. Basidiospores
- c. Conidiophores
- d. Zygosporangia

**Question Number : 44 Question Id : 4165292009 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Sporangia on upright hyphae that produce asexual spores are characteristic of

- a. Ascomycetes
- b. Basidiomycetes
- c. Club fungi
- d. Zygomycetes

**Question Number : 45 Question Id : 4165292010 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

An ascomycete can be distinguished from other fungi

- a. Because ascomycetes are mainly diploid
- b. Because ascomycetes lack a dikaryotic phase
- c. By the presence of sexual spores in an ascus
- d. By the presence of gills on the mycelium

**Question Number : 46 Question Id : 4165292011 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following is not a part of asexual reproduction in fungi?

- a. Formation of asexual spores
- b. New individuals growing from hyphal fragments
- c. Budding
- d. Development of dikaryons



**Question Number : 47 Question Id : 4165292012 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Aspergillosis is recognized in tissue by the presence of

- a. Metachromatic granules
- b. Pseudohyphae
- c. Septate hyphae
- d. Budding cells

**Question Number : 48 Question Id : 4165292013 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Infection with dermatophyte is most often associated with

- a. Intravenous drug abuse
- b. Inhalation of the organism from contaminated bird feces
- c. Adherence of the organism to perspired moist skin
- d. Fecal-oral transmission

**Question Number : 49 Question Id : 4165292014 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which one of the following is a heteroecious fungus?

- a. Albugo
- b. Phytophthora
- c. Puccinia
- d. Ustilago

**Question Number : 50 Question Id : 4165292015 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In some parasitic fungi, a globular or hook like structure is formed at the point of contact with the host. This is known as:

- a. Haustoria
- b. Appresorium
- c. Holdfast
- d. Hook

**Question Number : 51 Question Id : 4165292016 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The fruiting body of Aspergillus is called:

- a. Apothecium
- b. Perithecium
- c. Cleistothecium
- d. Hypanthodium

**Question Number : 52 Question Id : 4165292017 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Fungi which grow on dung are termed as:

- a. Coprophilous
- b. Terricolous
- c. Sacxicolous
- d. Saxipholous

**Question Number : 53 Question Id : 4165292018 Question Type : MCQ Option Shuffling : No Display Question Number : Yes**  
**Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Yeast is unlike bacteria in being

- a. Unicellular
- b. Multicellular
- c. Prokaryotic
- d. Eukaryotic

**Question Number : 54 Question Id : 4165292019 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The term "fungus" was coined by

- a. Gaspard Bauhin
- b. De Bary
- c. E.J. Butler
- d. Sadasvian

**Question Number : 55 Question Id : 4165292020 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

In 1943, the causal organism and host of Bengal famine was

- a. Wheat rust by Puccinia
- b. Blast of rice by Pyricularia oryzae
- c. Blast of rice by Xanthomonas oryzae
- d. Brown leaf spot of rice by Helminthosporium oryzae

**Question Number : 56 Question Id : 4165292021 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Ergot is caused by

- a. Claviceps
- b. Penicillium
- c. Aspergillus
- d. Rhizobium

**Question Number : 57 Question Id : 4165292022 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Gametangial copulation is common in

- a. Zygomycetes
- b. Ascomycetes
- c. Phycomycetes
- d. Deuteromycetes

**Question Number : 58 Question Id : 4165292023 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Fungal flagellum originates from

- a. Dictyosome
- b. Kinetosome
- c. Glyoxisomes
- d. Oxysomes

**Question Number : 59 Question Id : 4165292024 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Phytoalexins are secreted by plants in response to fungal reaction. These compounds are generally

- a. Proteins
- b. Glycoproteins
- c. Phenolic compounds
- d. Lipids

**Question Number : 60 Question Id : 4165292025 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following require chocolate agar to grow?

- a. E. coli
- b. Neisseria
- c. Proteus
- d. Salmonella

**Question Number : 61 Question Id : 4165292026 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Bile aesculin agar is used to select for

- a. Shigella
- b. Staphylococcus
- c. Salmonella
- d. Enterococci

**Question Number : 62 Question Id : 4165292027 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Bulls eye colonies are formed by which organism?

- a. Salmonella
- b. Yersinia enterocolitica
- c. Shigella
- d. Staphylococcus

**Question Number : 63 Question Id : 4165292028 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which agar is selective for Vibrio spp.?

- a. Sabouraud dextrose
- b. XLD
- c. TCBS
- d. MacConkey

**Question Number : 64 Question Id : 4165292029 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following is a rich source of Vitamin B?

- a. Peptone
- b. Yeast extract
- c. Beef extract
- d. Agar

**Question Number : 65 Question Id : 4165292030 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following bacteria requires nicotinic acid as a growth factor in their media?

- a. Proteus vulgaris
- b. Nitrosomonas
- c. E. coli
- d. Leuconostoc mesenteroides

**Question Number : 66 Question Id : 4165292031 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

MacConkey medium is an example of

- a. Transport medium
- b. Enrichment medium
- c. Differential medium
- d. All of the above

**Question Number : 67 Question Id : 4165292032 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Peptone water and nutrient broth are

- a. Selective media
- b. Enriched media
- c. Basal media
- d. None of these

**Question Number : 68 Question Id : 4165292033 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following bacteria can grow in alkaline pH?

- a. Shigella
- b. Lactobacilli
- c. Salmonella
- d. Vibrio cholera

**Question Number : 69 Question Id : 4165292034 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Sabouraud medium is used to selectively isolate

- a. Coliforms
- b. Gram positive bacteria
- c. Yeasts
- d. Acid fast bacteria

**Question Number : 70 Question Id : 4165292035 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following is used as a solidifying agent for media?

- a. Beef extract
- b. Peptone
- c. Agar
- d. Yeast extract

**Question Number : 71 Question Id : 4165292036 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following is a complex media for fungal growth?

- a. Nutrient broth
- b. Luria Bertani broth
- c. Potato Dextrose Agar media
- d. MacConkey Agar media

**Question Number : 72 Question Id : 4165292037 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following instrument is used for sterilizing the media after it has been prepared?

- a. Autoclave
- b. Laminar air flow chamber
- c. Incubator
- d. Hot air oven

**Question Number : 73 Question Id : 4165292038 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which one of the following Staphylococcal haemolysins does not possess leucocidal activity?

- a.  $\alpha$  haemolysin
- b.  $\beta$  haemolysin
- c.  $\gamma$  haemolysin
- d.  $\delta$  haemolysin

**Question Number : 74 Question Id : 4165292039 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The bacteria involved in the production of dental caries is/are:

- a. Streptococcus mutans
- b. Streptococcus sanguis
- c. Both (a) and (b)
- d. Streptococcus pyogenes

**Question Number : 75 Question Id : 4165292040 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Streptococcus pyogenes can be differentiated from other haemolytic Streptococci on the basis of

- a. Bacitracin sensitivity
- b. Erythromycin sensitivity
- c. Aminoglycosides sensitivity
- d. Penicillin sensitivity

**Question Number : 76 Question Id : 4165292041 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Streptolysin O is

- a. Antigenic
- b. Oxygen-labile
- c. Heat-labile
- d. All of these

**Question Number : 77 Question Id : 4165292042 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Each of the following agents is a recognized cause of diarrhea except

- a. Clostridium perfringens
- b. Vibrio cholera
- c. Enterococcus faecalis
- d. Escherichia coli

**Question Number : 78 Question Id : 4165292043 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

What is the most common reservoir of S.aureus?

- a. Urinogenital tract
- b. Enteric
- c. Lymphoid
- d. Liver

**Question Number : 79 Question Id : 4165292044 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following diseases is caused by the toxic activity of *Staphylococcus aureus*?

- a. Meningitis
- b. Osteomyelitis
- c. Septic arthritis
- d. Acute endocarditis

**Question Number : 80 Question Id : 4165292045 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following is NOT a classification scheme used to identify *Streptococci*?

- a. Teichoic acids
- b. Haemolytic patterns
- c. Biochemical properties
- d. Serologic properties (Lancefield groupings)

**Question Number : 81 Question Id : 4165292046 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following is the most common cause of neonatal meningitis?

- a. *Streptococcus pyogenes*
- b. *Streptococcus agalactiae*
- c. *Streptococcus pneumoniae*
- d. *Streptococcus mutans*

**Question Number : 82 Question Id : 4165292047 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Cholera is caused by bacteria

- a. *Clostridium tetani*
- b. *Ascaris lumbricoides*
- c. *Vibrio cholera*
- d. *Salmonella typhi*

**Question Number : 83 Question Id : 4165292048 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

What is the standard treatment of cholera?

- a. Oral rehydration therapy
- b. Tetracycline antibiotics
- c. Diuretic drugs
- d. Trimethoprim

**Question Number : 84 Question Id : 4165292049 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The DNA coding for the production of cholera toxin in *Vibrio cholera* is on the

- a. Phage
- b. Plasmid
- c. Chromosome
- d. Transposon

**Question Number : 85 Question Id : 4165292050 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Cholera toxin causes an increase in which of the following, leading to severe rice-water diarrhea?

- a. cGMP
- b. cAMP
- c. GTP
- d. ADP

**Question Number : 86 Question Id : 4165292051 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

A massive lesion caused by the spread of Staphylococcus aureus infection (on the neck and upper back) is called

- a. Abscess
- b. Furuncle
- c. Carbuncle
- d. Pustule

**Question Number : 87 Question Id : 4165292052 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following causes scarlet fever?

- a. Streptococcus pyogenes
- b. Staphylococcus aureus
- c. Propionibacterium acne
- d. Pseudomonas aeruginosa

**Question Number : 88 Question Id : 4165292053 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The bacterial sore throat is caused by

- a. Staphylococcus aureus
- b. Haemophilus
- c. Streptococcus pyogenes
- d. Mycoplasma pneumoniae

**Question Number : 89 Question Id : 4165292054 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The coagulase test is used to differentiate Staphylococcus aureus from

- a. Other staphylococci
- b. Streptococci
- c. Micrococci
- d. Enterococci

**Question Number : 90 Question Id : 4165292055 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The most severe streptococcal diseases are caused by

- a. Group A streptococci
- b. Group B streptococci
- c. Pneumococci
- d. Enterococci

**Question Number : 91 Question Id : 4165292056 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The symptoms in scarlet fever are due to

- a. Streptolysin
- b. Coagulase
- c. Pyrogenic toxin
- d. Alpha toxin

**Question Number : 92 Question Id : 4165292057 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Bacteria which produces coagulase is

- a. Staphylococcus epidermidis
- b. Staphylococcus saprophyticus
- c. Staphylococcus aureus
- d. Staphylococcus hominis

**Question Number : 93 Question Id : 4165292058 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following staphylococcal haemolysins does not cause lysis of human RBCs?

- a.  $\alpha$  haemolysin
- b.  $\beta$  haemolysin
- c.  $\gamma$  haemolysin
- d.  $\delta$  haemolysin

**Question Number : 94 Question Id : 4165292059 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The toxin of Staphylococcus aureus that may result into scalded skin syndrome is

- a. enterotoxin
- b. leucocidin
- c. epidermolytic toxin
- d. haemolysin

**Question Number : 95 Question Id : 4165292060 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

The bacteria which can ferment mannitol anaerobically is

- a. Staphylococcus aureus
- b. S. epidermidis
- c. S. saprophyticus
- d. None of these

**Question Number : 96 Question Id : 4165292061 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Protein A is found in the cell wall of

- a. Coagulase negative staphylococci
- b. Staphylococcus aureus
- c. Micrococci
- d. None of these

**Question Number : 97 Question Id : 4165292062 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Staphylococcal food poisoning usually manifests itself following ingestion of contaminated food after

- a. 2-6 hours
- b. 8-12 hours
- c. 12-18 hours
- d. 18-36 hours

**Question Number : 98 Question Id : 4165292063 Question Type : MCQ Option Shuffling : No Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Vibrio cholera bacterium cannot survive if the pH is

- a. Below 4.5
- b. Between 4.5 and 7
- c. Between 7 and 11
- d. Above 11



**Question Number : 99 Question Id : 4165292064 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Cell wall protein of *Streptococcus pyogenes* cross reacts with human

- a. Synovial fluid
- b. Cardiac valves
- c. Myocardium
- d. Vascular intima

**Question Number : 100 Question Id : 4165292065 Question Type : MCQ Option Shuffling : No Display Question Number : Yes  
Single Line Question Option : No Option Orientation : Vertical**

**Correct Marks : 1 Wrong Marks : 0**

Crystal violet blood agar is a selective medium for

- a.  $\beta$  haemolytic streptococci
- b. *Staphylococcus aureus*
- c. *Corynebacterium diphtheriae*
- d. *Mycobacterium tuberculosis*