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Post Graduate Assistants 2018-2019
Subject – Microbiology
Question Paper – Tentative key
Date of Exam – 28.09.2019 & Session - AN

1 The theory of spontaneous generation that living organisms could develop from non-living matter was disproved by _____ in 1861.
 The theory of spontaneous generation that living organisms could develop from non-living matter was disproved by _____ in 1861.

- A: Pasteur
 Pasteur
- B: Spallanzoni
 Spallanzoni
- C: Needham
 Needham
- D: Tyndall
 Tyndall

Correct Alternative :- A

2 According to Pasteur and Robert Koch theory which one of the following is true :
 According to Pasteur and Robert Koch theory which one of the following is true :

- A: Innoculation of such pure culture into suitable laboratory animals should produce the lesion of the disease
 Innoculation of such pure culture into suitable laboratory animals should produce the lesion of the disease
- B: Establish the fermentation
 Establish the fermentation
- C: A biogenesis of microorganism in putresible fluids
 A biogenesis of microorganism in putresible fluids
- D: All of these
 All of these

Correct Alternative :- D

3 All Gram positive bacteria are bounded by a single unit lipid membrane of about _____ thickness.
 All Gram positive bacteria are bounded by a single unit lipid membrane of about _____ thickness.

- A: 10-40 nm
 10-40 nm
- B: 20-80 nm
 20-80 nm
- C: 30-120 nm

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30-120 nm

D: 40-160 nm

40-160 nm

Correct Alternative :- B

4 Five kingdom concept does not include _____.
Five kingdom concept does not include _____.

A: Fungi

Fungi

B: Virus

Virus

C: Plant

Plant

D: Bacteria

Bacteria

Correct Alternative :- B

5 Which one of the following organism produce club shaped sub terminal spores ?
Which one of the following organism produce club shaped sub terminal spores ?

A: Clostridium bifermentans

Clostridium bifermentans

B: Clostridium Perfringens

Clostridium Perfringens

C: Clostridium tertium

Clostridium tertium

D: Clostridium tetani

Clostridium tetani

Correct Alternative :- B

6 Prokaryotes like _____ have more than one chromosome.
Prokaryotes like _____ have more than one chromosome.

A: Escherichia Coli

Escherichia Coli

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- B: *Borrelia burgdorferi*
Borrelia burgdorferi
- C: *Serratia marcescens*
Serratia marcescens
- D: *Salmonella typhimurium*
Salmonella typhimurium

Correct Alternative :- B

7 Gas vacuoles are present in _____.
Gas vacuoles are present in _____.

- A: *Bacillus anthracis*
Bacillus anthracis
- B: *Aquaspirillum magnetotacticum*
Aquaspirillum magnetotacticum
- C: *Borrelia burgdorferi*
Borrelia burgdorferi
- D: *Halobacterium* and *Thiotrix*
Halobacterium and *Thiotrix*

Correct Alternative :- D

8 Endospores are present in _____.
Endospores are present in _____.

- A: *Bacillus*, *clostridium* and *sporosarcina*
Bacillus, *clostridium* and *sporosarcina*
- B: *Staphylococcus*, *Streptococcus* and *corynebacteria*
Staphylococcus, *Streptococcus* and *corynebacteria*
- C: *Vibrio*, *Shigella* and *Salmonella*
Vibrio, *Shigella* and *Salmonella*
- D: *Aeromonas*, *Pseudomonas* and *Klebsiella*
Aeromonas, *Pseudomonas* and *Klebsiella*

Correct Alternative :- A

9 _____ are low molecular weight organic molecules that are able to complex with ferric iron and supply it into the cell.
_____ are low molecular weight organic molecules that are able to complex with ferric iron and supply it into the cell.

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- A: Siderophores
Siderophores
- B: Acyl homoserine lactone
Acyl homoserine lactone
- C: Cyclic thiolactone
Cyclic thiolactone
- D: Furanosyl borate
Furanosyl borate

Correct Alternative :- A

- 10 Match the following :
- | | |
|--------------------|-------------------------------|
| (a) Barophile | (i) Natronobacterium |
| (b) Microaerophile | (ii) Photobacterium profundum |
| (c) Thermophile | (iii) Treponema Pallidum |
| (d) Psychrotroph | (iv) Cyanidium caldarium |
| (e) Alkalophile | (v) Histeria monocytogenes |

- A: (a)-(i), (b)-(ii) (c)-(iii), (d)-(iv), (e)-(v)
(a)-(i), (b)-(ii) (c)-(iii), (d)-(iv), (e)-(v)
- B: (a)-(iii), (b)-(iv) (c)-(v), (d)-(i), (e)-(ii)
(a)-(iii), (b)-(iv) (c)-(v), (d)-(i), (e)-(ii)
- C: (a)-(ii), (b)-(iii) (c)-(iv), (d)-(v), (e)-(i)
(a)-(ii), (b)-(iii) (c)-(iv), (d)-(v), (e)-(i)
- D: (a)-(iv), (b)-(v) (c)-(i), (d)-(ii), (e)-(iii)
(a)-(iv), (b)-(v) (c)-(i), (d)-(ii), (e)-(iii)

Correct Alternative :- C

- 11 _____ is commonly utilised by soil microbes for the conversion of hexoses to pyruvates.
_____ is commonly utilised by soil microbes for the conversion of hexoses to pyruvates.

- A: Embden - Meyerhof pathway
Embden - Meyerhof pathway
- B: Etner - Duodoroff pathway

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Etner - Duodoroff pathway

C: Tricarboxylic acid cycle

Tricarboxylic acid cycle

D: Pentose phosphate pathway

Pentose phosphate pathway

Correct Alternative :- B

12 The conversion of pyruvate to oxaloacetate catalysed by the enzyme pyruvate carboxyl requires the cofactor _____.
The conversion of pyruvate to oxaloacetate catalysed by the enzyme pyruvate carboxyl requires the cofactor _____.

A: Flavin adenine dinucleotide

Flavin adenine dinucleotide

B: Biotin

Biotin

C: Nicotinamide adenine dinucleotide

Nicotinamide adenine dinucleotide

D: Coenzyme A

Coenzyme A

Correct Alternative :- B

13 Staphylococcal enterotoxins which are protein molecules, are classified as _____.
Staphylococcal enterotoxins which are protein molecules, are classified as _____.

A: T cell independent antigens

T cell independent antigens

B: T cell dependent antigens

T cell dependent antigens

C: Super antigens

Super antigens

D: Heterophile antigens

Heterophile antigens

Correct Alternative :- C

14 _____ is employed in the identification of a toxin of clostridium perfringens in clinical specimens.
_____ is employed in the identification of a toxin of clostridium perfringens in clinical specimens.

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- A: Elek's test
Elek's test
- B: Schick test
Schick test
- C: CAMP test
CAMP test
- D: Nagler's test
Nagler's test

Correct Alternative :- D

15 High pressure liquid chromatography employs a column consisting of _____.
 High pressure liquid chromatography employs a column consisting of _____.

- A: Small particle size stationary phase and high pressure eluant pumping system
Small particle size stationary phase and high pressure eluant pumping system
- B: Large particle size stationary phase and high pressure eluant pumping system
Large particle size stationary phase and high pressure eluant pumping system
- C: Medium particle size stationary phase and high pressure eluant pumping system
Medium particle size stationary phase and high pressure eluant pumping system
- D: Medium particle size stationary phase and low pressure eluant pumping system
Medium particle size stationary phase and low pressure eluant pumping system

Correct Alternative :- A

16 Rocket immuno electrophoresis is a modification of _____ involving electrophoretic migration of antigen from wells cut in antibody containing gel.
 Rocket immuno electrophoresis is a modification of _____ involving electrophoretic migration of antigen from wells cut in antibody containing gel.

- A: Ouchterlony's double diffusion
Ouchterlony's double diffusion
- B: Serum electrophoresis
Serum electrophoresis
- C: Single radial immuno diffusion
Single radial immuno diffusion
- D: Agarose gel electrophoresis
Agarose gel electrophoresis

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Correct Alternative :- C

- 17 Choose the correct combination of catalysts used in SDS-PAGE.
Choose the correct combination of catalysts used in SDS-PAGE.

A: TEMED & 2,4, dinitrophenyl hydrazine
TEMED & 2,4, dinitrophenyl hydrazine
B: TEMED & Riboflavin
TEMED & Riboflavin
C: Riboflavin & 2,4 dinitrophenyl hydrazine
Riboflavin & 2,4 dinitrophenyl hydrazine
D: TEMED & Dithiothreitol
TEMED & Dithiothreitol

Correct Alternative :- B

- 18 What is the molecular weight of Bovine Serum Albumin (BSA) ?
What is the molecular weight of Bovine Serum Albumin (BSA) ?

A: 14,300 kDa
14,300 kDa
B: 18,000 kDa
18,000 kDa
C: 24,000 kDa
24,000 kDa
D: 66,000 kDa
66,000 kDa

Correct Alternative :- D

- 19 The behaviour of a mutant which depends either on environmental conditions or on the presence of other mutations is called a _____.
The behaviour of a mutant which depends either on environmental conditions or on the presence of other mutations is called a _____.

A: Leaky mutant
Leaky mutant
B: Conditional mutant
Conditional mutant

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- C: Suppressor Sensitive mutant
Suppressor Sensitive mutant
D: Lethal mutant
Lethal mutant

Correct Alternative :- B

20 The genes involved in pili synthesis are _____.
The genes involved in pili synthesis are _____.

- A: inc B, C, E
inc B, C, E
B: fin O, P
fin O, P
C: tra genes
tra genes
D: oxi T
oxi T

Correct Alternative :- A

21 Pick out the method that does not insure the insertion of DNA in a plasmid vector ?
Pick out the method that does not insure the insertion of DNA in a plasmid vector ?

- A: Insertional inactivation
Insertional inactivation
B: Treatment of a cleaved plasmid with alkaline phosphatase
Treatment of a cleaved plasmid with alkaline phosphatase
C: Reverse transcription
Reverse transcription
D: Cosmids
Cosmids

Correct Alternative :- C

22 Scorpion toxic gene has been inserted into (AcMNPV) Autographa californica multiple nucleopolyhedrovirus to kill _____.
Scorpion toxic gene has been inserted into (AcMNPV) Autographa californica multiple nucleopolyhedrovirus to kill _____.

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- A: European corn borer
European corn borer
- B: Alfalfa Caterpillar
Alfalfa Caterpillar
- C: Cabbage looper
Cabbage looper
- D: Onion thrips
Onion thrips

Correct Alternative :- C

23 _____ is used as a low cost betaine source in vitamin B12 fermentation.
_____ is used as a low cost betaine source in vitamin B12 fermentation.

- A: Sugar beet molasses
Sugar beet molasses
- B: Sulphide waste liquor
Sulphide waste liquor
- C: Corn Steep liquor
Corn Steep liquor
- D: Cane molasses
Cane molasses

Correct Alternative :- A

24 The basic structure of the Penicillin is _____.
The basic structure of the Penicillin is _____.

- A: Methyl Penicillin
Methyl Penicillin
- B: 6 - amino pencillanic acid
6 - amino pencillanic acid
- C: 4 - amino - 4 - carboxyl- n - butyl penicillin
4 - amino - 4 - carboxyl- n - butyl penicillin
- D: 4 - aminopencillanic acid
4 - aminopencillanic acid

Correct Alternative :- B

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25 _____ is the most extensively studied and used organism in microbial leaching of ores.
 _____ is the most extensively studied and used organism in microbial leaching of ores.

- A: Thiobacillus ferrooxidans
 Thiobacillus ferrooxidans
- B: Desulfovibrio
 Desulfovibrio
- C: Pseudomonas denitrificans
 Pseudomonas denitrificans
- D: Pseudomonas aeruginosa
 Pseudomonas aeruginosa

Correct Alternative :- A

26 Two of the below mentioned statements are correct regarding optimum biogas formation.
 (a) Carbon/Nitrogen ratio should be less than 40 : 1
 (b) Carbon/Nitrogen ratio should be more than 50 : 2
 (c) Total Solid should be 20 - 40%
 (d) Total Solid should be 1 - 5%

Two of the below mentioned statements are correct regarding optimum biogas formation.
 (a) Carbon/Nitrogen ratio should be less than 40 : 1
 (b) Carbon/Nitrogen ratio should be more than 50 : 2
 (c) Total Solid should be 20 - 40%
 (d) Total Solid should be 1 - 5%

- A: (a) and (c)
 (a) and (c)
- B: (a) and (d)
 (a) and (d)
- C: (b) and (c)
 (b) and (c)
- D: (b) and (d)
 (b) and (d)

Correct Alternative :- A

27 Which of the following Marine Macro algae are used as traditional dietary Supplements ?
 (a) Ulva
 (b) Caulepra
 (c) Karenia
 (d) Laminaria
 (e) Porphyra
 (f) Alexandrium

Which of the following Marine Macro algae are used as traditional dietary Supplements ?

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- (a) Ulva
- (b) Caulepra
- (c) Karenia
- (d) Laminaria
- (e) Porphyra
- (f) Alexandrium

- A: (b), (c), (d) and (e)
 (b), (c), (d) and (e)
- B: (a), (b), (d) and (e)
 (a), (b), (d) and (e)
- C: (a), (b), (c), (d) and (f)
 (a), (b), (c), (d) and (f)
- D: (a), (c), (d), (e) and (f)
 (a), (c), (d), (e) and (f)

Correct Alternative :- B

28 Co-inoculation of _____ and _____ with Rhizobium have beneficial influence in increasing nodule numbers and nitrogen fixation in Soybeans.
 Co-inoculation of _____ and _____ with Rhizobium have beneficial influence in increasing nodule numbers and nitrogen fixation in Soybeans.

- A: Arthrobacter and Azotobacter
 Arthrobacter and Azotobacter
- B: Derxia and Arthrobacter
 Derxia and Arthrobacter
- C: Agrobacterium and Arthrobacter
 Agrobacterium and Arthrobacter
- D: Azotobacter and Azospirillum
 Azotobacter and Azospirillum

Correct Alternative :- D

29 The vir genes are not expressed when Agrobacterium tumefaciens is living saprotrophically in the soil. Instead, they are induced by the presence of plant phenolics and monosaccharides present in an _____ pH.
 The vir genes are not expressed when Agrobacterium tumefaciens is living saprotrophically in the soil. Instead, they are induced by the presence of plant phenolics and monosaccharides present in an _____ pH.

- A: 8.2 - 8.6
 8.2 - 8.6
- B: 6.9 - 7.4

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- 6.9 - 7.4
C: 9.1 - 9.6
9.1 - 9.6
D: 5.2 - 5.7
5.2 - 5.7

Correct Alternative :- D

30 Which one of the following acts as a fungistatic compound which is secreted by the leaves of cicer arietinum ?
Which one of the following acts as a fungistatic compound which is secreted by the leaves of cicer arietinum ?

- A: Malic acid
Malic acid
B: Acetic acid
Acetic acid
C: Caffeic acid
Caffeic acid
D: Benzoic acid
Benzoic acid

Correct Alternative :- A

31 Microcystins are _____.
Microcystins are _____.

- A: Neurotoxic
Neurotoxic
B: Renotoxic
Renotoxic
C: Hepatotoxic
Hepatotoxic
D: Cytotoxic
Cytotoxic

Correct Alternative :- C

32 Name the fungi that shoots off sporangium to a height of 1 to 2 meters due to turgor pressure.
Name the fungi that shoots off sporangium to a height of 1 to 2 meters due to turgor pressure.

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- A: Sporobolomyces
Sporobolomyces
- B: Cochliobolus
Cochliobolus
- C: Philobolus
Philobolus
- D: Mycosphaerella
Mycosphaerella

Correct Alternative :- C

- 33 Identify the salts used in the improvement of dough characteristics during bread making.
Identify the salts used in the improvement of dough characteristics during bread making.

- A: KBrO_3 or $(\text{NH}_4)_2\text{S}_2\text{O}_8$
 KBrO_3 or $(\text{NH}_4)_2\text{S}_2\text{O}_8$
- B: KIO_3 or CaSO_4
 KIO_3 or CaSO_4
- C: CaO_2 or NaCl
 CaO_2 or NaCl
- D: CaCl_2 or KCl
 CaCl_2 or KCl

Correct Alternative :- A

- 34 _____ refers to foodborne illnesses caused by the entrance of bacteria into the body through ingestion of contaminated foods and disease is due to their presence or their metabolites.
_____ refers to foodborne illnesses caused by the entrance of bacteria into the body through ingestion of contaminated foods and disease is due to their presence or their metabolites.

- A: Food Intoxication
Food Intoxication
- B: Food Infection
Food Infection
- C: Food Contamination
Food Contamination
- D: Food Spoilage
Food Spoilage

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Correct Alternative :- B

- 35 Fumonisin are produced by :
 Fumonisin are produced by :
- A: Penicillium notatum
 Penicillium notatum
- B: Fusarium Oxysporum
 Fusarium Oxysporum
- C: Fusarium moniliforme
 Fusarium moniliforme
- D: Claviceps purpurea
 Claviceps purpurea

Correct Alternative :- C

- 36 Choose the correct steps involved in the conversion of barley malt into beer.
 Choose the correct steps involved in the conversion of barley malt into beer.
- A: Mashing ® Malting ® Boiling ® Maturation ® Fermentation
 Mashing ® Malting ® Boiling ® Maturation ® Fermentation
- B: Mashing ® Boiling ® Malting ® Maturation ® Fermentation
 Mashing ® Boiling ® Malting ® Maturation ® Fermentation
- C: Malting ® Mashing ® Boiling ® Milling ® Fermentation
 Malting ® Mashing ® Boiling ® Milling ® Fermentation
- D: Malting ® Mashing ® Boiling ® Fermentation ® Maturation
 Malting ® Mashing ® Boiling ® Fermentation ® Maturation

Correct Alternative :- D

- 37 Caramel flavour of milk is produced by certain strains of _____.
 Caramel flavour of milk is produced by certain strains of _____.
- A: Streptococcus lactis var. maltigenes
 Streptococcus lactis var. maltigenes
- B: Enterobacter Oxytocum
 Enterobacter Oxytocum
- C: Pseudomonas Sapolactica
 Pseudomonas Sapolactica

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D: Aeromonas hydrophila
 Aeromonas hydrophila

Correct Alternative :- A

38 Which of the following statement is not true about Foot and Mouth disease ?
 Which of the following statement is not true about Foot and Mouth disease ?

- A: High fever, blisters inside the mouth of diseased animals
 High fever, blisters inside the mouth of diseased animals
- B: FMD virus can be transmitted to human beings, and the disease is characterised by clusters of papulovesicular lesions on the skin and oral Mucosa
 FMD virus can be transmitted to human beings, and the disease is characterised by clusters of papulovesicular lesions on the skin and oral Mucosa
- C: Some animals are asymptomatic carriers for FMD virus
 Some animals are asymptomatic carriers for FMD virus
- D: The virus responsible for the disease is a Paramyxo virus
 The virus responsible for the disease is a Paramyxo virus

Correct Alternative :- D

39 Which of the following invitro test used to check the toxigenicity of diphtheria bacillus ?
 Which of the following invitro test used to check the toxigenicity of diphtheria bacillus ?

- A: Subcutaneous test
 Subcutaneous test
- B: Intracutaneous test
 Intracutaneous test
- C: Elek's gel precipitation test
 Elek's gel precipitation test
- D: Ascoli's thermoprecipitation test
 Ascoli's thermoprecipitation test

Correct Alternative :- C

40 _____ is a genetically engineered insulin available commercially.
 _____ is a genetically engineered insulin available commercially.

A: Inulin
 Inulin

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- B: Humulin
Humulin
- C: R-Insulin
R-Insulin
- D: Proinsulin
Proinsulin

Correct Alternative :- B

- 41 Pick up the correct statement from the following.
The recombinant proteins secreted from yeast cells will be efficient than the proteins from bacteria, as it :
- (a) allows the formation of disulfide bonds.
 - (b) Undergoes Proteolytic maturation.
 - (c) Undergoes N- and O - linked glycosylation.
 - (d) Undergoes Post translational modifications.

Pick up the correct statement from the following.
The recombinant proteins secreted from yeast cells will be efficient than the proteins from bacteria, as it :

- (a) allows the formation of disulfide bonds.
- (b) Undergoes Proteolytic maturation.
- (c) Undergoes N- and O - linked glycosylation.
- (d) Undergoes Post translational modifications.

- A: (d)
(d)
- B: (b), (c)
(b), (c)
- C: (b), (c), (d)
(b), (c), (d)
- D: (a), (b), (c), (d)
(a), (b), (c), (d)

Correct Alternative :- D

- 42 Which one of the following penicillin group of antibiotic should not be given orally ?
Which one of the following penicillin group of antibiotic should not be given orally ?

- A: Penicillin V
Penicillin V
- B: Penicillin G
Penicillin G
- C: Ampicillin

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Ampicillin

D: Tetracycline

Tetracycline

Correct Alternative :- B

- 43 Monoclonal antibodies are widely used in diagnosis and research. However, they are unsuitable for the treatment of human diseases, because humans will develop hypersensitivity due to their mouse origin. What kind of modification can be done to overcome the above said issue by using genetic Engineering studies ?

Monoclonal antibodies are widely used in diagnosis and research. However, they are unsuitable for the treatment of human diseases, because humans will develop hypersensitivity due to their mouse origin. What kind of modification can be done to overcome the above said issue by using genetic Engineering studies ?

A: Cloning human antibody constant regions separately

Cloning human antibody constant regions separately

B: Making Chimeric antibodies consisting of Murine FAB variable regions and human constant regions

Making Chimeric antibodies consisting of Murine FAB variable regions and human constant regions

C: Cloning mouse antibody constant regions to human antibody binding regions to create hybrid antibody

Cloning mouse antibody constant regions to human antibody binding regions to create hybrid antibody

D: Cloning mouse antibody binding regions

Cloning mouse antibody binding regions

Correct Alternative :- B

- 44 Mycobacterium tuberculosis was discovered by :
Mycobacterium tuberculosis was discovered by :

A: Albert Neisser

Albert Neisser

B: Karl Ebertu

Karl Ebertu

C: Louis Pasteur

Louis Pasteur

D: Robert Koch

Robert Koch

Correct Alternative :- D

- 45 Microbial staining was first introduced by :
Microbial staining was first introduced by :

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- A: Robert Hooke
 Robert Hooke
 B: Louis Pasteur
 Louis Pasteur
 C: Robert Koch
 Robert Koch
 D: All of these
 All of these

Correct Alternative :- C

- 46 Which of the following was not discovered by Robert Koch ?
 Which of the following was not discovered by Robert Koch ?

- A: Salmonella typhi
 Salmonella typhi
 B: Bacillus anthraxis
 Bacillus anthraxis
 C: Mycobacterium tuberculosis
 Mycobacterium tuberculosis
 D: Vibrio cholerae
 Vibrio cholera

Correct Alternative :- A

- 47 Which of the following is called steam sterilizer ?
 Which of the following is called steam sterilizer ?

- A: Hot air oven
 Hot air oven
 B: Autoclave
 Autoclave
 C: Hybridization oven
 Hybridization oven
 D: Ethylene dioxide
 Ethylene dioxide

Correct Alternative :- B

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48 Fungicide acts against which of the following ?
 Fungicide acts against which of the following ?

- A: Coryne bacterium
Coryne bacterium
- B: Candida
Candida
- C: Brucella
Brucella
- D: None of these
None of these

Correct Alternative :- B

49 Which of the following is a method of cold sterilization method ?
 Which of the following is a method of cold sterilization method ?

- A: Steam sterilization
Steam sterilization
- B: Ionising Radiation
Ionising Radiation
- C: Non-ionising radiation
Non-ionising radiation
- D: Hot air oven
Hot air oven

Correct Alternative :- B

50 Which of the following filter is present in Biosafety cabinets ?
 Which of the following filter is present in Biosafety cabinets ?

- A: Asbestos
Asbestos
- B: Seitz
Seitz
- C: Membrane filter
Membrane filter
- D: HEPA
HEPA

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Correct Alternative :- D

- 51 UV radiation is lethal as sterilizing agent at which wavelength ?
UV radiation is lethal as sterilizing agent at which wavelength ?
- A: 160 nm
160 nm
- B: 260 nm
260 nm
- C: 360 nm
360 nm
- D: 460 nm
460 nm

Correct Alternative :- B

- 52 Which of the following method used for the Preservation of Bacteria ?
Which of the following method used for the Preservation of Bacteria ?
- A: Pasteurization
Pasteurization
- B: Inspissation
Inspissation
- C: Tyndallization
Tyndallization
- D: Lyophilization
Lyophilization

Correct Alternative :- D

- 53 Which microscopic method is used to see live cells of Treponema pallidum ?
Which microscopic method is used to see live cells of Treponema pallidum ?
- A: Phase contrast microscopy
Phase contrast microscopy
- B: Dark field microscopy
Dark field microscopy
- C: Confocal microscopy
Confocal microscopy

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D: Electron microscopy
Electron microscopy

Correct Alternative :- B

54 Which of the following is used to focus light on the Slide ?
Which of the following is used to focus light on the Slide ?

- A: Objective
Objective
- B: Eye piece
Eye piece
- C: Immersion oil
Immersion oil
- D: Condenser
Condenser

Correct Alternative :- D

55 Freez-etching is used in which microscopy ?
Freez-etching is used in which microscopy ?

- A: Dark-field microscopy
Dark-field microscopy
- B: Phase-contrast microscopy
Phase-contrast microscopy
- C: Electron microscopy
Electron microscopy
- D: Fluorescent microscopy
Fluorescent microscopy

Correct Alternative :- C

56 Gram staining is a _____ method.
Gram staining is a _____ method.

- A: Differential staining
Differential staining
- B: Simple staining

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Simple staining

C: Negative staining

Negative staining

D: Acid fast staining

Acid fast staining

Correct Alternative :- A

57 Which of the following is a negative staining method ?
Which of the following is a negative staining method ?

A: Gram staining

Gram staining

B: India Ink staining

India Ink staining

C: Acid-fast staining

Acid-fast staining

D: Crystal violet staining

Crystal violet staining

Correct Alternative :- B

58 Which of the following is a basal medium used for the cultivation of bacteria ?
Which of the following is a basal medium used for the cultivation of bacteria ?

A: Chrome agar

Chrome agar

B: Nutrient agar

Nutrient agar

C: Blood agar

Blood agar

D: Selenite F broth

Selenite F broth

Correct Alternative :- B

59 The commonly used membrane filter have a pore size of _____ .
The commonly used membrane filter have a pore size of _____ .

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- A: 0.22 mm
0.22 mm
- B: 1.20 mm
1.20 mm
- C: 0.22 m
0.22 m
- D: 2.20 A°
2.20 A°

Correct Alternative :- A

60 Basic taxonomic unit is :
Basic taxonomic unit is :

- A: Phyllum
Phyllum
- B: Species
Species
- C: Genus
Genus
- D: Cell
Cell

Correct Alternative :- B

61 Five kingdom concept was introduced by :
Five kingdom concept was introduced by :

- A: Whittaker
Whittaker
- B: Haeckel
Haeckel
- C: Woese
Woese
- D: Linnaeus
Linnaeus

Correct Alternative :- A

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62 Which of the following is used for classification of bacteria ?
Which of the following is used for classification of bacteria ?

- A: DNA
DNA
- B: sRNA
sRNA
- C: rRNA
rRNA
- D: micro RNA
micro RNA

Correct Alternative :- C

63 Which of the following is called ray fungus ?
Which of the following is called ray fungus ?

- A: Actinomyces
Actinomyces
- B: Rickettsiae
Rickettsiae
- C: Mycoplasma
Mycoplasma
- D: Salmonella
Salmonella

Correct Alternative :- A

64 Enterobacteriaceae belongs to _____ Phylum.
Enterobacteriaceae belongs to _____ Phylum.

- A: Proteobacteria
Proteobacteria
- B: Cyanobacteria
Cyanobacteria
- C: Mollicutes
Mollicutes
- D: Archaea
Archaea

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Correct Alternative :- A

65 _____ causes Endemic typhus.
_____ causes Endemic typhus.

- A: Salmonella typhi
Salmonella typhi
- B: Rickettsia typhi
Rickettsia typhi
- C: E.coli
E.coli
- D: Klebsiella
Klebsiella

Correct Alternative :- B

66 Bergey's manual describes _____.
Bergey's manual describes _____.

- A: Protozoan classification
Protozoan classification
- B: Fungal classification
Fungal classification
- C: Bacterial classification
Bacterial classification
- D: Virus classification
Virus classification

Correct Alternative :- C

67 Which organism was used to develop " one gene-one enzyme" hypothesis ?
Which organism was used to develop " one gene-one enzyme" hypothesis ?

- A: Aspergillus flavus
Aspergillus flavus
- B: Agaricus bisporus
Agaricus bisporus
- C: Neurospora crassa
Neurospora crassa

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D: *Penicillium notatum*
Penicillium notatum

Correct Alternative :- C

68 _____ ribosomes are present in bacteria.
_____ ribosomes are present in bacteria.

- A: 70 s ribosomes
70 s ribosomes
B: 90 s ribosomes
90 s ribosomes
C: 80 s ribosomes
80 s ribosomes
D: 60 s ribosomes
60 s ribosomes

Correct Alternative :- A

69 Which of the following is a yeast like-fungi ?
Which of the following is a yeast like-fungi ?

- A: *Cryptococcus*
Cryptococcus
B: *Candida*
Candida
C: *Aspergillus*
Aspergillus
D: *Rhizopus*
Rhizopus

Correct Alternative :- B

70 Which classification takes into account all characteristics expressed at time of study ?
Which classification takes into account all characteristics expressed at time of study ?

- A: Phylogenetic classification
Phylogenetic classification
B: Numerical classification

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Numerical classification

C: Adansonian classification

Adansonian classification

D: Binomial classifiaction

Binomial classification

Correct Alternative :- C

71 Most of the seaweeds come under :
Most of the seaweeds come under :

A: Phaeophyta

Phaeophyta

B: Pyrrhophyta

Pyrrhophyta

C: Rhodophyta

Rhodophyta

D: Chlorophyta

Chlorophyta

Correct Alternative :- C

72 Rhizopus stolonifer belong the division _____.
Rhizopus stolonifer belong the division _____.

A: Ascomycota

Ascomycota

B: Zygomycota

Zygomycota

C: Basidiomycota

Basidiomycota

D: Deuteromycota

Deuteromycota

Correct Alternative :- B

73 Baltimore system is used in taxonomy of :
Baltimore system is used in taxonomy of :

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- A: Protozoa
Protozoa
- B: Viruses
Viruses
- C: Yeasts
Yeasts
- D: Proteobacteria
Proteobacteria

Correct Alternative :- B

74 The principal sites of respiratory enzymes in bacteria.
The principal sites of respiratory enzymes in bacteria.

- A: Endoplasmic reticulum
Endoplasmic reticulum
- B: Ribosomes
Ribosomes
- C: Mesosomes
Mesosomes
- D: Nucleus
Nucleus

Correct Alternative :- C

75 Which is the first antibody to appear during infection ?
Which is the first antibody to appear during infection ?

- A: IgG
IgG
- B: IgE
IgE
- C: IgM
IgM
- D: IgA
IgA

Correct Alternative :- C

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76 Which of the following is not a bacterial adherence factor ?
Which of the following is not a bacterial adherence factor ?

- A: Pili
Pili
- B: Fimbriae
Fimbriae
- C: Lipoteichoic acid
Lipoteichoic acid
- D: Lipopolysaccharide
Lipopolysaccharide

Correct Alternative :- D

77 Alcohol fermentation is an :
Alcohol fermentation is an :

- A: Aerobic process
Aerobic process
- B: Oxidation process
Oxidation process
- C: Anaerobic process
Anaerobic process
- D: Oxidation-reduction process
Oxidation-reduction process

Correct Alternative :- C

78 _____ is the organism used in the production of L-Lysine.
_____ is the organism used in the production of L-Lysine.

- A: Bacillus polymyxa
Bacillus polymyxa
- B: Saccharomyces cerevisiae
Saccharomyces cerevisiae
- C: Serratia marcescens
Serratia marcescens
- D: Corynebacterium glutamicum
Corynebacterium glutamicum

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Correct Alternative :- B

79 a- Amylase enzyme is produced from :
a- Amylase enzyme is produced from :

- A: Penicillium sps
Penicillium sps
- B: A. oryzae
A. oryzae
- C: Saccharomyces cerevisiae
Saccharomyces cerevisiae
- D: Serratia Sps
Serratia Sps

Correct Alternative :- B

80 _____ is the carbon source used in the final production of commercial citric acid.
_____ is the carbon source used in the final production of commercial citric acid.

- A: Corn Molasses
Corn Molasses
- B: Starch Molasses
Starch Molasses
- C: Rice Molasses
Rice Molasses
- D: Beet Molasses
Beet Molasses

Correct Alternative :- D

81 How many stages are required for the vinegar production ?
How many stages are required for the vinegar production ?

- A: 5
5
- B: 4
4
- C: 3
3

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D: 2
2

Correct Alternative :- D

82 Conversion of an insoluble metal into a soluble form is called as _____.
Conversion of an insoluble metal into a soluble form is called as _____.

- A: Canning
Canning
- B: Fermentation
Fermentation
- C: Bioleaching
Bioleaching
- D: Agitation
Agitation

Correct Alternative :- C

83 Condition in which individuals of a species live in close association with individuals of another species :
Condition in which individuals of a species live in close association with individuals of another species :

- A: Commensalism
Commensalism
- B: Mutualism
Mutualism
- C: Synergism
Synergism
- D: Symbiosis
Symbiosis

Correct Alternative :- D

84 What are Reindeer Mosses ?
What are Reindeer Mosses ?

- A: Ferns
Ferns
- B: Lichen

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- Lichen
C: Fungus
Fungus
D: Sea weeds
Sea weeds

Correct Alternative :- B

85 Which of the following secrete powerful lytic enzymes that degrade other bacterial cells ?
Which of the following secrete powerful lytic enzymes that degrade other bacterial cells ?

- A: Pseudomonas
Pseudomonas
B: Streptococcus
Streptococcus
C: Myxobacteria
Myxobacteria
D: Rhizobium
Rhizobium

Correct Alternative :- C

86 Which of the following bacteria preys upon other bacteria ?
Which of the following bacteria preys upon other bacteria ?

- A: Vibrio
Vibrio
B: Aeromonas
Aeromonas
C: Bdellovibrio
Bdellovibrio
D: Bordetella
Bordetella

Correct Alternative :- C

87 Enzyme used in conversion of atmospheric nitrogen to ammonia is :
Enzyme used in conversion of atmospheric nitrogen to ammonia is :

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- A: Nitrase
Nitrase
- B: Nitrogenase
Nitrogenase
- C: Nitrate reductase
Nitrate reductase
- D: Nitroferase
Nitroferase

Correct Alternative :- B

88 Bacteria that carry - out denitrification :
Bacteria that carry - out denitrification :

- A: Proteus Sps
Proteus Sps
- B: Rhizopus Sps
Rhizopus Sps
- C: Aspergillus Sps
Aspergillus Sps
- D: Pseudomonas Sps
Pseudomonas Sps

Correct Alternative :- D

89 Bacillus lentimorbus is an example of :
Bacillus lentimorbus is an example of :

- A: Human pathogen
Human pathogen
- B: Mycopathogen
Mycopathogen
- C: Entomopathogen
Entomopathogen
- D: Phytopathogen
Phytopathogen

Correct Alternative :- C

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90 Which biopesticide is used to kill larvae of Japanese beetle ?
Which biopesticide is used to kill larvae of Japanese beetle ?

- A: B.Popilliae
B.Popilliae
- B: B.thuringensis
B.thuringensis
- C: Myxobacteria
Myxobacteria
- D: A.tumefaciens
A.tumefaciens

Correct Alternative :- A

91 Which of the following is not used for degrading DDT ?
Which of the following is not used for degrading DDT ?

- A: A. Flavus
A. Flavus
- B: A. Paraceticus
A. Paraceticus
- C: C. tropicalis
C. tropicalis
- D: T. Viride
T. Viride

Correct Alternative :- C

92 What is the process in which microbes with proven capabilities of degrading chemical pollutants are added ?
What is the process in which microbes with proven capabilities of degrading chemical pollutants are added ?

- A: Biosparging
Biosparging
- B: Bioaugmentation
Bioaugmentation
- C: Biostimulation
Biostimulation
- D: Bioattenuation
Bioattenuation

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Correct Alternative :- B

- 93 Phosphorus mineralization leads to conversion of phosphorus to _____ that plants can assimilate.
Phosphorus mineralization leads to conversion of phosphorus to _____ that plants can assimilate.
- A: Phosphatase
 Phosphatase
- B: Phosphate
 Phosphate
- C: Phosphoric acid
 Phosphoric acid
- D: Phosphorus chloride
 Phosphorus chloride

Correct Alternative :- B

- 94 Algae and cyanobacteria are often present in the _____.
Algae and cyanobacteria are often present in the _____.
- A: Deep soil
 Deep soil
- B: Sub soil
 Sub soil
- C: Surface soil
 Surface soil
- D: Bed rock
 Bed rock

Correct Alternative :- C

- 95 Energy crops include plants with high in _____ content.
Energy crops include plants with high in _____ content.
- A: Protein
 Protein
- B: Sugar
 Sugar
- C: Aminoacid
 Aminoacid

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D: Lipid
Lipid

Correct Alternative :- B

96 Hemicelluloses is a :
Hemicelluloses is a :

- A: Homopolymer
Homopolymer
- B: Aromatic compound
Aromatic compound
- C: Heteropolysaccharides
Heteropolysaccharides
- D: Amine compound
Amine compound

Correct Alternative :- C

97 _____ is a cellulose destroying fungi.
_____ is a cellulose destroying fungi.

- A: Trichoderma
Trichoderma
- B: Mucor
Mucor
- C: Penicillium
Penicillium
- D: Aspergillus
Aspergillus

Correct Alternative :- A

98 Biogas is a breakdown of :
Biogas is a breakdown of :

- A: Organic matter in the presence of carbon dioxide
Organic matter in the presence of carbon dioxide
- B: Organic matter in the presence of oxygen

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Organic matter in the presence of oxygen

C: Organic matter in the absence of oxygen

Organic matter in the absence of oxygen

D: Organic matter in the absence of carbon dioxide

Organic matter in the absence of carbon dioxide

Correct Alternative :- C

99 Carbon-nitrogen ratio of about _____ is ideal for the raw material fed into a biogas plant.
Carbon-nitrogen ratio of about _____ is ideal for the raw material fed into a biogas plant.

A: 01:30

01:30

B: 30 : 1

30 : 1

C: 10:30

10:30

D: 20:40

20:40

Correct Alternative :- B

100 _____ is the enzyme produced by microorganisms for the production of hydrogen.
_____ is the enzyme produced by microorganisms for the production of hydrogen.

A: Protease

Protease

B: Peptidase

Peptidase

C: Hydrogenase

Hydrogenase

D: Amylase

Amylase

Correct Alternative :- C

101 _____ is the optimum pH for Anaerobic digestion in biogas production.
_____ is the optimum pH for Anaerobic digestion in biogas production.

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- A: 1.8 to 3.0
1.8 to 3.0
B: 6.8 to 8.0
6.8 to 8.0
C: 4.8 to 5
4.8 to 5
D: 9.0 to 9.5
9.0 to 9.5

Correct Alternative :- B

102 _____ produces molecular hydrogen under light conditions.
_____ produces molecular hydrogen under light conditions.

- A: Scenedesmus
Scenedesmus
B: Rhizopus
Rhizopus
C: Mucor
Mucor
D: Penicillium
Penicillium

Correct Alternative :- A

103 _____ was the first vaccine developed through recombinant DNA technology.
_____ was the first vaccine developed through recombinant DNA technology.

- A: MMR vaccine
MMR vaccine
B: Hepatitis B vaccine
Hepatitis B vaccine
C: DPT vaccine
DPT vaccine
D: Cholera vaccine
Cholera vaccine

Correct Alternative :- B

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104 _____ medium is used in the production of monoclonal antibody.
_____ medium is used in the production of monoclonal antibody.

- A: HAT
HAT
- B: nutrient Agar
nutrient Agar
- C: Macconkey Agar
Macconkey Agar
- D: RPMI
RPMI

Correct Alternative :- A

105 The structure of Insulin was first described by :
The structure of Insulin was first described by :

- A: Robert Koch
Robert Koch
- B: Louis pasteur
Louis pasteur
- C: Frederick Sanger
Frederick Sanger
- D: Vitta - Komaroff
Vitta – Komaroff

Correct Alternative :- C

106 Interferon is a :
Interferon is a :

- A: Antiviral agent
Antiviral agent
- B: Antibacterial agent
Antibacterial agent
- C: Antiparasitic agent
Antiparasitic agent
- D: Antifungal agent
Antifungal agent

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Correct Alternative :- A

- 107 Human growth hormone was produced first by genetic engineering technique using :
Human growth hormone was produced first by genetic engineering technique using :
- A: E. Coli 0157 strain
E. Coli 0157 strain
- B: E. Coli 0150 strain
E. Coli 0150 strain
- C: E. Coli K50 strain
E. Coli K50 strain
- D: E.Coli K12 strain
E.Coli K12 strain

Correct Alternative :- D

- 108 Streptomycin is produced from :
Streptomycin is produced from :
- A: Penicillium sps
Penicillium sps
- B: Streptomyces griseus
Streptomyces griseus
- C: Streptomyces aureofaciens
Streptomyces aureofaciens
- D: Streptomyces rimosus
Streptomyces rimosus

Correct Alternative :- B

- 109 The flocculating agent used in the production of enzyme is _____.
The flocculating agent used in the production of enzyme is _____.
- A: Calcium phosphate
Calcium phosphate
- B: Calcium Borate
Calcium Borate
- C: Calcium Citrate
Calcium Citrate

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D: Calcium Chloride
Calcium Chloride

Correct Alternative :- A

110 Penicillin comes under _____ group of antibiotics.
Penicillin comes under _____ group of antibiotics.

- A: a-lactam
a-lactam
B: g-lactam
g-lactam
C: b-lactam
b-lactam
D: p-lactam
p-lactam

Correct Alternative :- C

111 Which one of the following planets rises few hours before Sunrise ?
Which one of the following planets rises few hours before Sunrise ?

- A: Jupiter
Jupiter
B: Mars
Mars
C: Venus
Venus
D: Uranus
Uranus

Correct Alternative :- C

112 Bokaro Steel Plant is located in :
Bokaro Steel Plant is located in :

- A: Jharkhand
Jharkhand
B: Odisha

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Odisha

C: West Bengal

West Bengal

D: Bihar

Bihar

Correct Alternative :- A

113 Which gas is present more in air ?
Which gas is present more in air ?

A: Oxygen

Oxygen

B: Carbon-di-oxide

Carbon-di-oxide

C: Nitrogen

Nitrogen

D: Hydrogen

Hydrogen

Correct Alternative :- C

114 Leakage of LPG gas in our homes can be detected by mixing it with _____.
Leakage of LPG gas in our homes can be detected by mixing it with _____.

A: Methane

Methane

B: Methane + little ethane

Methane + little ethane

C: Propane + butane

Propane + butane

D: Ethyl mercaptan

Ethyl mercaptan

Correct Alternative :- D

115 Which of the following process, does not require a medium ?
Which of the following process, does not require a medium ?

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- A: Convection
Convection
- B: Conduction
Conduction
- C: Radiation
Radiation
- D: All of these
All of these

Correct Alternative :- C

- 116 During the period of _____ the Nalanda University was established.
During the period of _____ the Nalanda University was established.

- A: Kumara Gupta
Kumara Gupta
- B: Chandra Gupta Maurya
Chandra Gupta Maurya
- C: II Chandra Gupta
II Chandra Gupta
- D: Samudra Gupta
Samudra Gupta

Correct Alternative :- A

- 117 What is the full form of 'RIELIT' ?
What is the full form of 'RIELIT' ?

- A: Regional Institute for English Language and Information Technology
Regional Institute for English Language and Information Technology
- B: Rehabilifation and Training
Rehabilifation and Training
- C: Regional Institute of e-learning and Information Technology
Regional Institute of e-learning and Information Technology
- D: Research Institute for English Literature
Research Institute for English Literature

Correct Alternative :- C

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118 During Second Carnatic War whom the French supported ?
 During Second Carnatic War whom the French supported ?

- A: Muza Far Sung, Muhammed Ali
 Muza Far Sung, Muhammed Ali
- B: Nazirsung, Anwaruddin
 Nazirsung, Anwaruddin
- C: Muzafar Sung, Chandasaheeb
 Muzafar Sung, Chandasaheeb
- D: Muzafar Sung, Anwaruddin
 Muzafar Sung, Anwaruddin

Correct Alternative :- C

119 Expansion of VVPAT _____.
 Expansion of VVPAT _____.

- A: Voters Verified Paper Account Trail
 Voters Verified Paper Account Trail
- B: Voters Verified Paperless Account Trail
 Voters Verified Paperless Account Trail
- C: Voters Verified Paperless Audit Trail
 Voters Verified Paperless Audit Trail
- D: Voters Verified Paper Audit Trail
 Voters Verified Paper Audit Trail

Correct Alternative :- D

120 The country which is called the "Museum of Human Race" :
 The country which is called the "Museum of Human Race" :

- A: Malaysia
 Malaysia
- B: Switzerland
 Switzerland
- C: India
 India
- D: Japan
 Japan

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Correct Alternative :- C

121 The name Stephen M. Corey is associated with _____.
 The name Stephen M. Corey is associated with _____.

- A: Action Research
 Action Research
- B: Instructional designing
 Instructional designing
- C: e-content designing and development
 e-content designing and development
- D: Mobile learning
 Mobile learning

Correct Alternative :- A

122 Difficulty in learning and remembering names, telephone numbers, multiplication tables but possible good performances in analytic and intuitive tasks that do not involve memory, these can be categorized under _____.
 Difficulty in learning and remembering names, telephone numbers, multiplication tables but possible good performances in analytic and intuitive tasks that do not involve memory, these can be categorized under _____.

- A: Poor ability to combine movement and vision
 Poor ability to combine movement and vision
- B: Poor grasp of sequence
 Poor grasp of sequence
- C: Gaps in general knowledge
 Gaps in general knowledge
- D: Problems in style of learning
 Problems in style of learning

Correct Alternative :- D

123 _____ denotes the law or science of work. The study of a specific kind of behaviour : that of a man making a programmed physical or mental effort in return for some remuneration.
 _____ denotes the law or science of work. The study of a specific kind of behaviour : that of a man making a programmed physical or mental effort in return for some remuneration.

- A: Cybernetics
 Cybernetics
- B: Devaluation

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Devaluation

C: Synergism

Synergism

D: Ergonomics

Ergonomics

Correct Alternative :- D

124 In the skill of probing questions _____ component represents that, 'questions which seek from the pupil to compare the phenomenon with other phenomenon for similarity or contrast or for any other relationship'.
In the skill of probing questions _____ component represents that, 'questions which seek from the pupil to compare the phenomenon with other phenomenon for similarity or contrast or for any other relationship'.

A: Prompting (P)

Prompting (P)

B: Seeking Further Information (SFI)

Seeking Further Information (SFI)

C: Re-Focussing (RF)

Re-Focussing (RF)

D: Increasing Critical Awareness (ICA)

Increasing Critical Awareness (ICA)

Correct Alternative :- C

125 The Government of India appointed a committee on Correspondence Courses and evening colleges in 1961 under the chairmanship of _____.
The Government of India appointed a committee on Correspondence Courses and evening colleges in 1961 under the chairmanship of _____.

A: K.L. Shrimali

K.L. Shrimali

B: V.V. Giri

V.V. Giri

C: D.S. Kothari

D.S. Kothari

D: Prof. M.V. Mathur

Prof. M.V. Mathur

Correct Alternative :- A

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126 Which concept will be mostly formed when celebration of festivals is taught in class ?
Which concept will be mostly formed when celebration of festivals is taught in class ?

- A: Number
Number
- B: Social environment
Social environment
- C: Physical environment
Physical environment
- D: Colour
Colour

Correct Alternative :- B

127 In _____ reinforcement schedule the organism is rewarded for a response made only after a span of time.
In _____ reinforcement schedule the organism is rewarded for a response made only after a span of time.

- A: Continuous
Continuous
- B: Fixed interval
Fixed interval
- C: Fixed ratio
Fixed ratio
- D: Variable
Variable

Correct Alternative :- B

128 _____ has coined the phrase " learning set" to describe the phenomenon of learning how to learn.
_____ has coined the phrase " learning set" to describe the phenomenon of learning how to learn.

- A: Harry Harlow
Harry Harlow
- B: Charles Judd
Charles Judd
- C: Ivan Pavlov
Ivan Pavlov
- D: Alfred Binet
Alfred Binet

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Correct Alternative :- A

- 129 In retrieval tasks, the tendency for items at the beginning and at the end of a list to be recalled more readily is called as _____.
- In retrieval tasks, the tendency for items at the beginning and at the end of a list to be recalled more readily is called as _____.
- A: Recency effect
Recency effect
- B: Serial position effect
Serial position effect
- C: Primacy effect
Primacy effect
- D: Latency effect
Latency effect

Correct Alternative :- B

- 130 Which theory emphasized in its hypothesis the role of the hippocampal formation and its close association with the amygdala ?
- Which theory emphasized in its hypothesis the role of the hippocampal formation and its close association with the amygdala ?
- A: Maclean's theory of emotions
Maclean's theory of emotions
- B: Papez's theory of emotions
Papez's theory of emotions
- C: Arnold's theory of emotions
Arnold's theory of emotions
- D: Schachter's theory of emotions
Schachter's theory of emotions

Correct Alternative :- A

- 131 _____ of the Indian Constitution deals with the promotion of educational and economic interest of the scheduled castes, scheduled tribes and other weaker sections.
- _____ of the Indian Constitution deals with the promotion of educational and economic interest of the scheduled castes, scheduled tribes and other weaker sections.
- A: Article 42
Article 42

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- B: Article 22
Article 22
C: Article 26
Article 26
D: Article 46
Article 46

Correct Alternative :- D

132 Howard Gardner's Multiple Intelligence Theory describes _____ types of intelligence.
Howard Gardner's Multiple Intelligence Theory describes _____ types of intelligence.

- A: 6
6
B: 7
7
C: 8
8
D: 10
10

Correct Alternative :- C

133 _____ popularized teaching machines in learning.
_____ popularized teaching machines in learning.

- A: Spearman
Spearman
B: Skinner
Skinner
C: Thorndike
Thorndike
D: Piaget
Piaget

Correct Alternative :- B

134 _____ is an example of instrumental conditioning based on negative reinforcement.
_____ is an example of instrumental conditioning based on negative reinforcement.

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A: Concept based learning
Concept based learning

B: Lateral learning
Lateral learning

C: Insightful learning
Insightful learning

D: Trial and error learning
Trial and error learning

Correct Alternative :- C

135 _____ interest indicates a preference for meeting and dealing with people and promoting projects for things to sell.
_____ interest indicates a preference for meeting and dealing with people and promoting projects for things to sell.

A: Scientific
Scientific

B: Literary
Literary

C: Social service
Social service

D: Persuasive
Persuasive

Correct Alternative :- D

136 NCERT conducted the second All India Educational Survey in the year_____.
NCERT conducted the second All India Educational Survey in the year_____.

A: 1965
1965

B: 1971
1971

C: 1972
1972

D: 1969
1969

Correct Alternative :- A

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137 If a counsellor has recorded highly confidential information about a student, this record should be filed separately, this is done contextually and be termed as _____.
 If a counsellor has recorded highly confidential information about a student, this record should be filed separately, this is done contextually and be termed as _____.

- A: Authenticity
Authenticity
- B: Objectivity
Objectivity
- C: Reliability
Reliability
- D: Secrecy
Secrecy

Correct Alternative :- D

138 Evaluation whether the diagnostic, formative (or) summative may play its role in exercising few functions related with devising of the teaching-learning tasks. This is related to _____.
 Evaluation whether the diagnostic, formative (or) summative may play its role in exercising few functions related with devising of the teaching-learning tasks. This is related to _____.

- A: Motivational functions
Motivational functions
- B: Planning functions
Planning functions
- C: Informational or communicational functions
Informational or communicational functions
- D: Decision making functions
Decision making functions

Correct Alternative :- B

139 The chief principle of _____ philosophy is that man creates his own values; there are no fixed eternal truths.
 The chief principle of _____ philosophy is that man creates his own values; there are no fixed eternal truths.

- A: Realism
Realism
- B: Existentialism
Existentialism

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- C: Naturalism
Naturalism
- D: Pragmatism
Pragmatism

Correct Alternative :- D

140 _____ is a type of fixation in which an individual tries to solve a problem in a particular way that has worked in the past.
_____ is a type of fixation in which an individual tries to solve a problem in a particular way that has worked in the past.

- A: Apperception
Apperception
- B: Assimilation
Assimilation
- C: Shaping
Shaping
- D: Mental Set
Mental Set

Correct Alternative :- D

141 This test is used as an indicator of aptitude for bench work which involves rapid manipulation of objects :
This test is used as an indicator of aptitude for bench work which involves rapid manipulation of objects :

- A: Finger Dexterity Test
Finger Dexterity Test
- B: Clerical Ability Test
Clerical Ability Test
- C: Mechanical Aptitude Test
Mechanical Aptitude Test
- D: O' Connor's Wiggly Block Test
O' Connor's Wiggly Block Test

Correct Alternative :- A

142 In Herbartian approach to lesson planning _____ step is related with the task of strengthening the acquisition of new learning material.
In Herbartian approach to lesson planning _____ step is related with the task of strengthening the acquisition of new learning material.

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- A: Presentation
Presentation
- B: Comparison (or) Association
Comparison (or) Association
- C: Generalization
Generalization
- D: Application
Application

Correct Alternative :- B

143 The Constitution (86th amendment) Act of _____ year inserted _____ Article in the Constitution of India to provide free and compulsory education of all children in the age group of 6 to 14 years as a Fundamental right.
 The Constitution (86th amendment) Act of _____ year inserted _____ Article in the Constitution of India to provide free and compulsory education of all children in the age group of 6 to 14 years as a Fundamental right.

- A: 2001, Article 46
2001, Article 46
- B: 2010, Article 12-A
2010, Article 12-A
- C: 2009, Article 45-A
2009, Article 45-A
- D: 2002, Article 21-A
2002, Article 21-A

Correct Alternative :- D

144 Based on Gagne's hierarchy of learning, in _____ learning the learner acquires the ability to understand the common properties of a group of substances that might still vary from one another.
 Based on Gagne's hierarchy of learning, in _____ learning the learner acquires the ability to understand the common properties of a group of substances that might still vary from one another.

- A: Verbal association
Verbal association
- B: Multiple discrimination
Multiple discrimination
- C: Concept learning
Concept learning
- D: Rule learning
Rule learning

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Correct Alternative :- C

- 145 The policy statement was made in Parliament on April 5, 1977 declaring that along with UEE, highest priority in educational planning would be accorded to _____.
- The policy statement was made in Parliament on April 5, 1977 declaring that along with UEE, highest priority in educational planning would be accorded to _____.
- A: UPE
 UPE
- B: Secondary Education
 Secondary Education
- C: Higher Education
 Higher Education
- D: Adult Education
 Adult Education

Correct Alternative :- D

- 146 The teacher must provide identity between historical and present-day events is an example of :
- The teacher must provide identity between historical and present-day events is an example of :
- A: The principle of multiple response
 The principle of multiple response
- B: The principle of mental set
 The principle of mental set
- C: The principle of partial activity
 The principle of partial activity
- D: The principle of assimilation
 The principle of assimilation

Correct Alternative :- D

- 147 UGC launched the _____ project on August 15, 1984.
- UGC launched the _____ project on August 15, 1984.
- A: CIET
 CIET
- B: CWCR
 CWCR

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- C: SITE
SITE
D: PLAN
PLAN

Correct Alternative :- B

148 The _____ is a technique that provides the counsellor with an opportunity to understand a client's knowledge regarding a topic such as career information.
The _____ is a technique that provides the counsellor with an opportunity to understand a client's knowledge regarding a topic such as career information.

- A: In take interviews
In take interviews
B: Guess who
Guess who
C: Sociometric
Sociometric
D: Card sort
Card sort

Correct Alternative :- D

149 "Behaviour that occurs at a naturally high rate of frequency may be used to reinforce behaviour that occurs at a naturally low rate of frequency" is :
"Behaviour that occurs at a naturally high rate of frequency may be used to reinforce behaviour that occurs at a naturally low rate of frequency" is :

- A: Programmed instruction
Programmed instruction
B: Operant conditioning
Operant conditioning
C: Halo effect
Halo effect
D: Premack principle
Premack principle

Correct Alternative :- D

150 The Central Hindu College at Benaras was founded by _____ in _____.

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The Central Hindu College at Benaras was founded by _____ in _____.

- A: Ishwar Chandra Vidyasagar, 1901
 Ishwar Chandra Vidyasagar, 1901
- B: Swami Dayanand Saraswathi, 1875
 Swami Dayanand Saraswathi, 1875
- C: Sri Ramakrishna Mission, 1915
 Sri Ramakrishna Mission, 1915
- D: Annie Besant, 1898
 Annie Besant, 1898

Correct Alternative :- D

