Topic:- BIOSCI MSC S2

1) Balbiani Rings occur in

[Question ID = 9207]

- 1. Autosomes [Option ID = 36822]
- 2. Hetrosomes [Option ID = 36823]
- 3. Polytene chromosomes [Option ID = 36824]
- 4. Lampbrush chromosomes [Option ID = 36825]

Correct Answer :-

- Polytene chromosomes [Option ID = 36824]
- 2) Which of the following is NOT a type of cancer?

[Question ID = 9208]

1. Carcinomas

[Option ID = 36826]

2. Sarcomas

[Option ID = 36827]

3. Leukemia

[Option ID = 36828]

4. Colitis

[Option ID = 36829]

Correct Answer :-

Colitis

[Option ID = 36829]

3) If DNA is damaged, which of the following genes arrest cell cycle?

[Question ID = 9209]

- 1. Rb [Option ID = 36830]
- 2. p53 [Option ID = 36831]
- 3. Hedgehog receptor [Option ID = 36832]
- 4. p16 [Option ID = 36833]

Correct Answer:-

- p53 [Option ID = 36831]
- 4) Name the term where a single pre-mRNA is processed into a number of products?

[Question ID = 9210]

- 1. Alternate splicing [Option ID = 36834]
- 2. Polyadenylation [Option ID = 36835]
- 3. Capping [Option ID = 36836]
- 4. Intron removal [Option ID = 36837]

Correct Answer :-

- Alternate splicing [Option ID = 36834]
- 5) What is the role of the sigma factor in transcription?

[Question ID = 9211]

- 1. Helicase action [Option ID = 36838]
- 2. Transcription initiation [Option ID = 36839]
- 3. Transcription elongation [Option ID = 36840]
- 4. Transcription termination [Option ID = 36841]

Correct Answer :-

- Transcription initiation [Option ID = 36839]
- 6) How many base pairs are there in every helical turn of Watson-Crick double helix model?

[Question ID = 9212]

32.3

[Option ID = 36842]

2. 20.6

[Option ID = 36843]

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[Option ID = 36845]

Correct Answer :-

10.4

[Option ID = 36845]

7) A purified DNA sample of leaf contains 20% of guanine. Calculate the approximate percentage of purine residues?

[Question ID = 9213]

- 1. 30% [Option ID = 36846]
- 2. 40% [Option ID = 36847]
- 3. 50% [Option ID = 36848]
- 4. 60% [Option ID = 36849]

Correct Answer :-

• 50% [Option ID = 36848]

8) How many numbers of replicon are found in E.coli?

[Question ID = 9214]

- 1. Five replicon [Option ID = 36850]
- 2. Two replicon [Option ID = 36851]
- 3. Single replicon [Option ID = 36852]
- 4. Multiple replicon [Option ID = 36853]

Correct Answer :-

• Single replicon [Option ID = 36852]

9) What is the role of snoRNA in eukaryotes?

[Question ID = 9215]

- 1. Chemical modification of rRNA [Option ID = 36854]
- 2. RNA splicing [Option ID = 36855]
- 3. Act as adaptor RNA [Option ID = 36856]
- 4. Forms component of the ribosome [Option ID = 36857]

Correct Answer :-

• Chemical modification of rRNA [Option ID = 36854]

10) Which of the following sequence of RNA is recognized by the small subunit of the ribosome? [Question ID = 9216]

- 1. Rho utilization site [Option ID = 36858]
- 2. Downstream sequence [Option ID = 36859]
- 3. Upstream sequence [Option ID = 36860]
- 4. Shine-Dalgarno sequence [Option ID = 36861]

Correct Answer :-

Shine-Dalgarno sequence [Option ID = 36861]

Which of the following acts as the major neurotransmitter in substantia nigra?

[Question ID = 9217] 1. Dopamine [Option ID = 36862]

- 2. Noradrenaline [Option ID = 36863]
- 3. Acetylcholine [Option ID = 36864]
- 4. Serotonin [Option ID = 36865]

Correct Answer :-

Dopamine [Option ID = 36862]

12) The electrochemical equilibrium of a neuron can be calculated using which equation? [Question ID = 9218]

- 1. Bernouli equation [Option ID = 36866]
- 2. Henderson-Hassalbach equation [Option ID = 36867]
- 3. Leyden's equation [Option ID = 36868]
- 4. Nernst equation [Option ID = 36869]

Correct Answer :-

Nernst equation [Option ID = 36869]

13) Which is true about composition of Blood?

- 1. Plasma-55%, Protein/WBC-1%, RBC- 45% [Option ID = 36870]
- 2. Plasma-50%, Protein/WBC-3%, RBC- 47% [Option ID = 36871]

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• Plasma-55%, Protein/WBC-1%, RBC- 45% [Option ID = 36870]

14) Which of the following statement is TRUE about the ear and hearing? [Question ID = 9220]

- 1. The range of human hearing is from 20 Hz to 20 kHz [Option ID = 36874]
- 2. Conductive hearing loss would be evident if a person had a similar degree of hearing loss for air conduction and bone conduction [Option ID = 36875]
- 3. The ear is most sensitive to frequencies between about 100 Hz and 300 Hz [Option ID = 36876]
- 4. The endolymph of the scala media is similar in composition to plasma [Option ID = 36877]

Correct Answer :-

• The range of human hearing is from 20 Hz to 20 kHz [Option ID = 36874]

15) During isotonic contraction of a skeletal-muscle fibre, the

[Question ID = 9221]

1. (1) Sarcomeres shorten

[Option ID = 36878]

2. (2) A bands shorten

[Option ID = 36879]

3. (3) I bands shorten

[Option ID = 36880]

4. (4) 1 and 3

[Option ID = 36881]

Correct Answer :-

• (4) 1 and 3

[Option ID = 36881]

16) The rate-limiting factor in causing blood coagulation is [Question ID = 9222]

- 1. Prothrombin activator [Option ID = 36882]
- 2. Thrombin [Option ID = 36883]
- 3. Fibrinogen [Option ID = 36884]
- 4. Fibrin stabilizing factor [Option ID = 36885]

Correct Answer :-

• Prothrombin activator [Option ID = 36882]

17) In different types of tissue transplantations, the rate of graft rejection in decreasing order is [Question ID = 9223]

- 1. Isograft > xenograft > allograft [Option ID = 36886]
- 2. Allograft > isograft > xenograft [Option ID = 36887]
- 3. Xenograft > autograft > allograft [Option ID = 36888]
- 4. Xenograft > allograft > isograft [Option ID = 36889]

Correct Answer :-

• Xenograft > allograft > isograft [Option ID = 36889]

18) Reticulo-endothelial cells are present in [Question ID = 9224]

- 1. Kidney, Spleen & Bone marrow [Option ID = 36890]
- 2. Lung, Spleen & Bone marrow [Option ID = 36891]
- 3. Liver, Spleen & Bone marrow [Option ID = 36892]
- 4. Intestine, Spleen & Bone marrow [Option ID = 36893]

Correct Answer :-

• Liver, Spleen & Bone marrow [Option ID = 36892]

19) The central foveal region in eye contains [Question ID = 9225]

- 1. Only rods [Option ID = 36894]
- 2. Both rods and cones [Option ID = 36895]
- 3. Only cones [Option ID = 36896]
- 4. Neither rods nor cones [Option ID = 36897]

Correct Answer :-

Only cones [Option ID = 36896]

[Option ID = 36920] 4. (4) Both 1 and 2

[Option ID = 36921]

Correct Answer :-



www.FirstRanker.com 26) Which of the following is the characteristic(s) of aspirin overdose?

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[Question ID = 9232]

1. (1) Pyloric valve spasm

[Option ID = 36922]

2. (2) Acidity

[Option ID = 36923]

3. (3) Both 1 and 2

[Option ID = 36924]

4. (4) Neither

[Option ID = 36925]

Correct Answer :-

• (3) Both 1 and 2

[Option ID = 36924]

27) Which of the following is effective in the management of mild to moderate pain, when anti-inflammatory action is not necessary?

[Question ID = 9233]

- 1. Penicillamine [Option ID = 36926]
- 2. Sulfasalazine [Option ID = 36927]
- 3. Acetaminophen [Option ID = 36928]
- 4. Piroxicam [Option ID = 36929]

Correct Answer :-

• Acetaminophen [Option ID = 36928]

28) Risk differs from hazard in that, the risk

[Question ID = 9234]

- 1. Includes a consideration of the likelihood and severity [Option ID = 36930]
- 2. Is determined by toxicity studies [Option ID = 36931]
- 3. Can only be assessed by trained professionals [Option ID = 36932]
- 4. Is independent of exposure [Option ID = 36933]

Correct Answer :-

Includes a consideration of the likelihood and severity [Option ID = 36930]

29) Which of the following drugs work by inhibiting the enzyme acetylcholinesterase? [Question ID = 9235]

1 Neestinging [Ontion ID

- 1. Neostigmine [Option ID = 36934]
- 2. Cyclizine [Option ID = 36935]
- 3. Montelukast [Option ID = 36936]
- 4. Fentanyl [Option ID = 36937]

Correct Answer :-

• Neostigmine [Option ID = 36934]

30) Which type of epilepsy is treated with Ethosuximide?

[Question ID = 9236]

1. Tonic-clonic seizures

[Option ID = 36938]

2. Lennox-Gastaut syndrome seizures

[Option ID = 36939]

3. Absence seizures

[Option ID = 36940]

4. All of these

[Option ID = 36941]

Correct Answer :-

Absence seizures

[Option ID = 36940]

31) Which statement is true for competitive inhibition? [Question ID = 9237]

Correct Answer :-

• In competitive inhibition, the addition of agonist shifts the dose response curve to the right [Option ID = 36942]

32) The enzyme ultimately responsible for the formation of fibrin monomer is [Question ID = 9238]

- 1. Plasminogen [Option ID = 36946]
- 2. Thrombin [Option ID = 36947]
- 3. Kininogen [Option ID = 36948]
- 4. Prothrombin [Option ID = 36949]

Correct Answer :-

• Thrombin [Option ID = 36947]

33) Paracrine secretion responsible for inhibiting gastric acid secretion is [Question ID = 9239]

- 1. Somatostatin [Option ID = 36950]
- 2. Gastrin [Option ID = 36951]
- 3. Histamine [Option ID = 36952]
- 4. Enterogastrone [Option ID = 36953]

Correct Answer :-

Somatostatin [Option ID = 36950]

34) The percentage of hemoglobin saturated with oxygen will increase, if

[Question ID = 9240]

1. The arterial pCO₂ is increased

[Option ID = 36954]

2. The temperature is increased

[Option ID = 36955]

3. The arterial pO_2 is increased

[Option ID = 36956]

4. The arterial pH is decreased

[Option ID = 36957]

Correct Answer:-

• The arterial pO₂ is increased

[Option ID = 36956]

35) Which of the following statement about spermatogenesis is correct? [Question ID = 9241]

- 1. Production and release of spermatozoa is cyclic [Option ID = 36958]
- 2. LH acts directly on sertoli cells to promote cell division [Option ID = 36959]
- 3. Sertoli cells are required for mitotic and meiotic activity of germ cells [Option ID = 36960]
- 4. Spermatogenesis requires continuous release of GnRH [Option ID = 36961]

Correct Answer :-

• Sertoli cells are required for mitotic and meiotic activity of germ cells [Option ID = 36960]

36) Plasma levels of calcium can be increased most rapidly by the direct action of parathyroid hormone on the [Question ID = 9242]

- 1. Kidney [Option ID = 36962]
- 2. Bones [Option ID = 36963]
- 3. Thyroid gland [Option ID = 36964]
- 4. Intestine [Option ID = 36965]

Correct Answer :-

• Bones [Option ID = 36963]

37) Transcortical sensory aphasia is most likely to be associated with a lesion of [Question ID = 9243]

- 1. The hippocampus [Option ID = 36966]
- 2. The temporal lobe [Option ID = 36967]
- 3. The parietal lobe [Option ID = 36968]
- 4. The limbic system [Option ID = 36969]

- 1. Glomerular filtrate [Option ID = 36970]
- 2. Loop of Henle [Option ID = 36971]
- 3. Cortical collecting tubule [Option ID = 36972]
- 4. Distal collecting duct [Option ID = 36973]

Correct Answer :-

• Loop of Henle [Option ID = 36971]

39) The principal steroid secreted by the fetal adrenal cortex is [Question ID = 9245]

- 1. Dehydroepiandrosterone [Option ID = 36974]
- 2. Corticosterone [Option ID = 36975]
- 3. Cortisol [Option ID = 36976]
- 4. Pregnenolone [Option ID = 36977]

Correct Answer :-

• Dehydroepiandrosterone [Option ID = 36974]

40) Vaccination is a form of

[Question ID = 9246]

1. (1) Active immunization

[Option ID = 36978]

2. (2) Passive immunization

[Option ID = 36979]

3. (3) Both

[Option ID = 36980]

4. (4) Neither

[Option ID = 36981]

Correct Answer :-

• (3) Both

[Option ID = 36980]

41) Which of the following diseases is associated with angiogenesis?

[Question ID = 9247]

- 1. Diabetes [Option ID = 36982]
- 2. Cancer [Option ID = 36983]
- 3. Asthma [Option ID = 36984]
- 4. AIDS [Option ID = 36985]

Correct Answer :-

• Cancer [Option ID = 36983]

42) The F1 particles of mitochondria are

[Question ID = 9248]

- 1. A type of ribosome that synthesizes mitochondrial proteins [Option ID = 36986]
- 2. A structural component of the mitochondrial outer membrane [Option ID = 36987]
- 3. An enzyme complex that synthesizes ATP during respiration [Option ID = 36988]
- 4. Storage complex for calcium phosphate in the mitochondria [Option ID = 36989]

Correct Answer :-

• An enzyme complex that synthesizes ATP during respiration [Option ID = 36988]

43) Rheumatoid arthritis is an example of [Question ID = 9249]

- 1. Type I hypersensitive reaction [Option ID = 36990]
- 2. Type II hypersensitive reaction [Option ID = 36991]
- 3. Type III hypersensitive reaction [Option ID = 36992]
- 4. Type IV hypersensitive reaction [Option ID = 36993]

Correct Answer :-

• Type III hypersensitive reaction [Option ID = 36992]

44) Cystic fibrosis transmembrane conductance regulator (CFTR) is an ion channel specific for **www.FirstRanker.com**

[Question ID = 9250]

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[Option ID = 36995]

3. Cl

[Option ID = 36996]

4. H⁻¹

[Option ID = 36997]

Correct Answer :-

Cl⁻

[Option ID = 36996]

45) Under which phase of bacterial growth bacteria increases in size but do not divide? [Question ID = 9251]

- 1. Lag [Option ID = 36998]
- 2. Log [Option ID = 36999]
- 3. Stationary phase [Option ID = 37000]
- 4. Death phase [Option ID = 37001]

Correct Answer :-

• Lag [Option ID = 36998]

46) Which of the following features of HIV make it different from other members of this family?

[Question ID = 9252]

1. HIV uses reverse transcriptase to convert its RNA genome into cDNA

[Option ID = 37002]

2. HIV infects human cells that are CD4+

[Option ID = 37003]

HIV is enveloped

[Option ID = 37004]

4. HIV encoded a number of small proteins such as tat and rev

[Option ID = 37005]

Correct Answer :-

• HIV uses reverse transcriptase to convert its RNA genome into cDNA

[Option ID = 37002]

47) Sulfur oxidizing bacteria belongs to [Question ID = 9253]

- 1. Chemoheterotroph [Option ID = 37006]
- 2. Chemolithoautotroph [Option ID = 37007]
- 3. Chemolithoheterotroph [Option ID = 37008]
- 4. Photolithoautotroph [Option ID = 37009]

Correct Answer :-

• Chemolithoautotroph [Option ID = 37007]

48) RNA as a genetic material is found in, which of the following organism?

[Question ID = 9254]

1. Plasmodium

[Option ID = 37010]

2. Staphylococcus aureus

[Option ID = 37011]

3. Schizosaccharomycescerevisiae

[Option ID = 37012]

4. Poliovirus

[Option ID = 37013]

Correct Answer :-

Poliovirus

[Option ID = 37013]

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2. Caused by a variant of common cold virus

[Option ID = 37015]

3. An acute form of asthma

[Option ID = 37016]

4. Related to all of these

[Option ID = 37017]

Correct Answer :-

• Caused by a variant of common cold virus

[Option ID = 37015]

50) Viruses can be cultured in

[Question ID = 9256]

1. (1) Chemically defined media as that used for bacteria

[Option ID = 37018]

2. (2) Living system only

[Option ID = 37019]

3. (3) Non-living matter also

[Option ID = 37020]

4. (4) Both 1 and 2

[Option ID = 37021]

Correct Answer :-

(2) Living system only

[Option ID = 37019]

51) Which of the following fungi is a rich source of protein?

[Question ID = 9257]

- 1. Mushroom [Option ID = 37022]
- 2. Aspergillus [Option ID = 37023]
- 3. Penicillum [Option ID = 37024]
- 4. Mucor [Option ID = 37025]

Correct Answer :-

• Mushroom [Option ID = 37022]

52) Streptomycin is obtained from

[Question ID = 9258]

- 1. Streptomyces capreolus [Option ID = 37026]
- 2. Streptomyces vanezulae [Option ID = 37027]
- 3. Streptomyces orchidaceus [Option ID = 37028]
- 4. Streptomyces griseus [Option ID = 37029]

Correct Answer :-

• Streptomyces griseus [Option ID = 37029]

53) Which cells secrete Tissue plasminogen Activator (tPA)? [Question ID = 9259]

1. Erythrocytes [Option ID = 37030]

- 2. Platelets [Option ID = 37031]
- 3. Endothelial cells [Option ID = 37032]
- 4. Neutrophils [Option ID = 37033]

Correct Answer :-

• Endothelial cells [Option ID = 37032]

54) Which trace element is most useful in wound healing?

[Question ID = 9260]

- 1. Manganese [Option ID = 37034]
- 2. Magnesium [Option ID = 37035]
- 3. Selenium [Option ID = 37036]
- 4. Zinc [Option ID = 37037]

Correct Answer :-

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• Zinc [Option ID = 37037]

59) Recombination frequency is a measure of distance between two genes. It indicates [Question ID = 9265]

1. Absolute distance in terms of base pairs [Option ID = 3/054] www.FirstRanker.com

2. Position of the gene from the centromere [Option ID = 37055]

• (4) Only (1)

[Option ID = 37053]

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• Relative distance between the two genes [Option ID = 37056]

60) A Test cross in a model organism is carried out between [Question ID = 9266]

- 1. A heterozygote and recessive homozygote [Option ID = 37058]
- 2. Two heterozygotes [Option ID = 37059]
- 3. A heterozygote and dominant homozygote [Option ID = 37060]
- 4. Offspring and parent both heterozygous [Option ID = 37061]

Correct Answer :-

• A heterozygote and recessive homozygote [Option ID = 37058]

61) Linkage between loci is

[Question ID = 9267]

- 1. Confirming Mendel's laws of inheritance [Option ID = 37062]
- 2. A deviation from Mendel's Laws of inheritance [Option ID = 37063]
- 3. Reflected in the Law of independent assortment [Option ID = 37064]
- 4. Because of recombination [Option ID = 37065]

Correct Answer :-

• A deviation from Mendel's Laws of inheritance [Option ID = 37063]

62) For a mutation to be stably inherited

[Question ID = 9268]

- 1. It should occur in all somatic cells [Option ID = 37066]
- 2. It should occur on both the homologues in a diploid [Option ID = 37067]
- 3. It should occur in gametes [Option ID = 37068]
- 4. It should be random [Option ID = 37069]

Correct Answer :-

• It should occur in gametes [Option ID = 37068]

63) Which of the following statements is untrue?

[Question ID = 9269]

- 1. Desolvation is an energy expensive process that involves the removal of water from polar functional groups prior to a drug binding to its binding site [Option ID = 37070]
- 2. Water molecules surrounding a hydrophobic region of a drug form an ordered layer of molecules with low entropy [Option ID = 37071]
- 3. Interaction between the non polar regions of a drug and the non polar regions of a target require the removal of an ordered water coat and represents a gain in binding energy due to increased entropy [Option ID = 37072]
- 4. An increase in entropy results in a greater positive value of ΔG and a greater chance of binding [Option ID = 37073]

Correct Answer :-

• An increase in entropy results in a greater positive value of ΔG and a greater chance of binding [Option ID = 37073]

64) Which secondary messenger is generated as a result of the action of nitrous oxide?

[Question ID = 9270]

- 1. GTP [Option ID = 37074]
- 2. Cyclic GMP [Option ID = 37075]
- 3. ATP [Option ID = 37076]
- 4. Cyclic AMP [Option ID = 37077]

Correct Answer :-

• Cyclic GMP [Option ID = 37075]

65) Which of the following is not a G-protein coupled receptor?

[Question ID = 9271]

- 1. The muscarinic receptor [Option ID = 37078]
- 2. The glycine receptor [Option ID = 37079]
- 3. The adrenergic receptor [Option ID = 37080]
- 4. The glutamate receptor [Option ID = 37081]

Correct Answer :-

• The glycine receptor [Option ID = 37079]

66) Which of the following is not a typical messenger for a tyrosine kinase linked receptor?

[Question ID = 9272]

1. Insulin [Option ID - 37082]

- Acetylcholine [Option ID = 37083]
 Growth factors [Option ID = 37084]
- 4. Cytokines [Option ID = 37085]



67) Which of the following statements best explaints in treating memory in treating memory for the following statements best explaints in the following statement in the follow

- 2. They inhibit phospholipase C [Option ID = 37087]
- 3. They inhibit protein kinase C [Option ID = 37088]
- 4. They inhibit a glycogen synthase kinase [Option ID = 37089]

Correct Answer :-

- They inhibit a glycogen synthase kinase [Option ID = 37089]
- 68) Which of the following terms best describes a drug that binds to an active site and inhibits the enzyme, and where inhibition decreases when substrate concentration is increased?

[Question ID = 9274]

- 1. Allosteric inhibitor
 - [Option ID = 37090]
- 2. Irreversible inhibitor
 - [Option ID = 37091]
- Reversible inhibitor
 - [Option ID = 37092]
- 4. All of these
 - [Option ID = 37093]

Correct Answer :-

- Reversible inhibitor
 - [Option ID = 37092]
- 69) Which of the following is not used as a measure of enzyme activity?

[Question ID = 9275]

1. EC₅₀

[Option ID = 37094]

2. K_i

[Option ID = 37095]

3. IC₅₀

[Option ID = 37096]

4. Log P

[Option ID = 37097]

Correct Answer :-

Log P

[Option ID = 37097]

- 70) Which of the following terms applies to the maximum biological effect resulting from a drug binding to its target? [Question ID = 9276]
- 1. Affinity [Option ID = 37098]
- 2. Efficacy [Option ID = 37099]
- 3. Potency [Option ID = 37100]
- 4. Stability [Option ID = 37101]

Correct Answer :-

• Efficacy [Option ID = 37099]

71) Suckling stimulus by the infant during nursing maintains lactation by [Question ID = 9277]

- 1. Increasing the secretion of oxytocin [Option ID = 37102]
- 2. Increasing the secretion of prolactin [Option ID = 37103]
- 3. Increasing the secretion of LH and FSH [Option ID = 37104]
- 4. Increasing the secretion of oxytocin and prolactin [Option ID = 37105]

Correct Answer:-

- Increasing the secretion of oxytocin and prolactin [Option ID = 37105]
- 72) Which one of the following is not a heme pwww.FirstRanker.com [Question ID = 9278]

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Correct Answer :-

• Protein Kinase C [Option ID = 37109]

73) A shift in the oxygen Haemoglobin Dissociation curve to the right occurs in [Question ID = 9279]

- 1. Hypothermia [Option ID = 37110]
- 2. Carboxyhaemoglobin [Option ID = 37111]
- 3. Fetal hemoglobin-S [Option ID = 37112]
- 4. An increase in the 2, 3-Bisphosphoglycerate (2, 3-BPG) [Option ID = 37113]

Correct Answer :-

• An increase in the 2, 3-Bisphosphoglycerate (2, 3-BPG) [Option ID = 37113]

74) The concentration of agar to obtain semi solid media is

[Question ID = 9280]

1. 1.5-20%

[Option ID = 37114]

2. 0.5% or less

[Option ID = 37115]

3. >10%

[Option ID = 37116]

4. >10% but <20%

[Option ID = 37117]

Correct Answer :-

• 0.5% or less

[Option ID = 37115]

75) Bleomycin is a drug for the treatment of

[Question ID = 9281]

- 1. Cancer [Option ID = 37118]
- 2. Atherosclerosis [Option ID = 37119]3. Hypertension [Option ID = 37120]
- 4. Hyperlipidemia [Option ID = 37121]

Correct Answer :-

• Cancer [Option ID = 37118]

76) Emblica officinalis extract is used widely as an

[Question ID = 9282]

- 1. Antihistamine [Option ID = 37122]
- 2. Antioxidant [Option ID = 37123]
- 3. Antipyretic [Option ID = 37124]
- 4. Analgesic [Option ID = 37125]

Correct Answer :-

• Antioxidant [Option ID = 37123]

77) The vitamin that contains cobalt is

[Question ID = 9283]

- 1. Vitamin B12 [Option ID = 37126]
- 2. Vitamin C [Option ID = 37127]
- 3. Vitamin E [Option ID = 37128]
- 4. Vitamin k [Option ID = 37129]

Correct Answer :-

• Vitamin B12 [Option ID = 37126]

78) The first virus shown to cause disease was

[Question ID = 9284]

- 1. Polio [Option ID = 37130]
- 2. Hepatitis [Option ID = 37131]
- 3. Tobacco mosaic virus [Option ID = 37132]
- 4. Potato blight [Option ID = 37133]

used for the proper maintenance and preservation of pure cultures? www.FirstRanker.com

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[Question ID = 9285]

1. Periodic transfer to fresh media

[Option ID = 37134]

2. Preservation by overlaying cultures with mineral oil

[Option ID = 37135]

3. Preservation by lyophilization

[Option ID = 37136]

4. All of these

[Option ID = 37137]

Correct Answer :-

All of these

[Option ID = 37137]

80) Name of the mosquito responsible for transmitting chikungunya fever is [Question ID = 9286]

- 1. Culex mosquito [Option ID = 37138]
- 2. Anopheles mosquito [Option ID = 37139]
- 3. Aedes mosquito [Option ID = 37140]
- 4. Uranotaenia mosquito [Option ID = 37141]

Correct Answer:-

Aedes mosquito [Option ID = 37140]

81) The half life period of a radioisotope is 2 hours. After 6 hours, the fraction of the initial quantity of the isotope left behind will be

[Question ID = 9287]

- 1. 1/6 [Option ID = 37142]
- 2. 1/3 [Option ID = 37143]
- 3. 1/8 [Option ID = 37144]
- 4. 1/4 [Option ID = 37145]

Correct Answer :-

• 1/8 [Option ID = 37144]

82) PCl₃ reacts with water to yield

[Question ID = 9288]

- 1. H3PO4 [Option ID = 37146]
- 2. H3PO3 [Option ID = 37147]
- 3. HOCl [Option ID = 37148]
- 4. POCl3 [Option ID = 37149]

Correct Answer :-

• H3PO3 [Option ID = 37147]

83) The bond angle 120° for BF₃ and 109.3° for CH₄ accounts for

[Question ID = 9290]

1. sp², tetrahedral and sp³, trigonal

[Option ID = 37154]

2. sp², trigonal and sp³, trigonal

[Option ID = 37155]

3. sp², tetrahedral and sp³, tetrahedral

[Option ID = 37156]

4. sp², trigonal and sp³, tetrahedral

[Option ID = 37157]

Correct Answer :-

• sp², trigonal and sp³, tetrahedral

[Option ID = 37157]

84) Ultraviolet and visible radiation interacts with matter causing electronic transitions (promotion of electrons from the ground state to a high energy state). Which of the work with the sanker and one of the work of the state of the sanker and the [Question ID = 9291]

Correct Answer :-

• π - π^* (pi to pi star transition) and n - π^* (n to pi star transition) [Option ID = 37158]

85) Which of the following statements is not true? [Question ID = 9293]

- 1. Pyrrole contains 6π electrons [Option ID = 37166]
- 2. Pyrrole is an aromatic molecule [Option ID = 37167]
- 3. Pyrrole is a planar molecule [Option ID = 37168]
- 4. Pyrrole contains 6 membered N containing heterocyclic ring [Option ID = 37169]

Correct Answer :-

• Pyrrole contains 6 membered N containing heterocyclic ring [Option ID = 37169]

86) Fischer -Tropsch process is

[Question ID = 9294]

- 1. Decomposition of an alkane in the absence of air [Option ID = 37170]
- 2. Process to convert kerosene into gasoline [Option ID = 37171]
- 3. A process to obtain synthetic fuel [Option ID = 37172]
- 4. Conversion of straight chain alkanes into branched-chain alkanes and aromatic hydrocarbons [Option ID = 37173]

Correct Answer :-

• A process to obtain synthetic fuel [Option ID = 37172]

87) Which one of the following product is not obtained from primary amine? [Question ID = 9295]

- 1. Imine [Option ID = 37174]
- 2. Enamine [Option ID = 37175]
- 3. Hydrazone [Option ID = 37176]
- 4. Oxime [Option ID = 37177]

Correct Answer :-

• Enamine [Option ID = 37175]

88) Which one of the following is correct statement?

[Question ID = 9296]

1. The electronegative character decreases in the same group moving down the periodic table

[Option ID = 37178]

 $\ensuremath{\mathsf{2}}.$ The basic character decreases moving from left to right in periodic table

[Option ID = 37179]

3. The ionization potential increases moving from left to right in periodic table

[Option ID = 37180]

4. All of these

[Option ID = 37181]

Correct Answer :-

All of these

[Option ID = 37181]

89) Which one of the following rearrangement involves the conversion of oxime to amine? [Question ID = 9297]

- 1. Beckmann [Option ID = 37182]
- 2. Curtius [Option ID = 37183]
- 3. Hofmann [Option ID = 37184]
- 4. Wagner-Meerwein [Option ID = 37185]

Correct Answer :-

• Beckmann [Option ID = 37182]

90) The product of the reaction of 1, 3- butadiene and ethylene is [Question ID = 9298]

- 1. Hexane [Option ID = 37186]
- 2. Cyclohexane [Option ID = 37187]
- 3. Hexene [Option ID = 37188]
- 4. Cyclohexene [Option ID = 37189]

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Correct Answer :-

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92) Which of the following violates the octet rule?

[Question ID = 9300]

1. PCl₃

[Option ID = 37194]

2. CBr₄

[Option ID = 37195]

3. OF₂

[Option ID = 37196]

4. AsF₅

[Option ID = 37197]

Correct Answer :-

AsF₅

[Option ID = 37197]

93) In which one of the following species does the transition metal ion have d³ electronic configuration?

[Question ID = 9301]

1. [Cr(NH3)6]³⁺

[Option ID = 37198]

2. $[Co(OH2)6]^{2+}$

[Option ID = 37199]

3. [CoF6]³

[Option ID = 37200]

4. [Fe(CN)6]³

[Option ID = 37201]

Correct Answer :-

• [Cr(NH3)6]³⁺

[Option ID = 37198]

94) Hydrolysis of a fat molecule would yield

[Question ID = 9302]

- 1. Water and an alkene [Option ID = 37202]
- 2. Ethanol and propionic acid [Option ID = 37203]
- 3. Glycerol and soap [Option ID = 37204]
- 4. A trimester of glycerol with fatty acid [Option ID = 37205]

Correct Answer :-

• Glycerol and soap [Option ID = 37204]

95) In the Hofmann preparation of primary amine, the starting compound is [Question ID = 9304]

- 1. Carboxylic acid [Option ID = 37210]
- 2. Ketone [Option ID = 37211]
- 3. Amide [Option ID = 37212]
- 4. Halide [Option ID = 37213]

Correct Answer:-

• Amide [Option ID = 37212]

96) Which of the following IS TRUE about sucrose?

[Question ID = 9305]

- 1. It is not a reducing sugar [Option ID = 37214]
- 2. It reduces Fehling's solution [Option ID = 37215]
- 3. It forms an oxime [Option ID = 37216]

97) The metal present in Wilkinson's catalyst is

[Question ID = 9306]

- 1. Platinum [Option ID = 37218]
- 2. Iron [Option ID = 37219]
- 3. Copper [Option ID = 37220]
- 4. Rhodium [Option ID = 37221]

Correct Answer :-

- Rhodium [Option ID = 37221]
- 98) Complete the following reaction. $_{11}Na^{23} + _{1}H^{1} \rightarrow ? + _{0}n^{1}$

[Question ID = 9308]

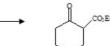
- 1. ₁₂Mn²³
 - [Option ID = 37226]
- $2. _{12}Mg^{23}$
 - [Option ID = 37227]
- 3. ₁₂C²³
 - [Option ID = 37228]
- 4. None of these
 - [Option ID = 37229]

Correct Answer :-

- 12Mg²³
 - [Option ID = 37227]

99) Name the following reaction

EtOOC(CH2)5CO2Et



[Question ID = 9309]

- 1. Perkin Reaction
 - [Option ID = 37230]
- 2. Aldol condensation
 - [Option ID = 37231]
- 3. Dieckmann condesation
- [Option ID = 37232]
- 4. None of these
 - [Option ID = 37233]

Correct Answer :-

- Dieckmann condesation
 - [Option ID = 37232]

100) Which of the following IS NOT aromatic?









[

II

III

IV

[Question ID = 9310]

- 1. I [Option ID = 37234]
- 2. II [Option ID = 37235]
- 3. III [Option ID = 37236]
- 4. IV [Option ID = 37237]

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Correct Answer :-

• III [Option ID = 37236]

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