

DU MSc PhD Comb degree in Bio Sci N MSc in Bio Sci

| Sr.No | Question Id | Question Description | Question Body | Options |
|-------|-------------|---------------------------|---|--|
| 1 | 1015 | DU_J19_MSC_B IOSCI_Q01 | The best nucleophile among the following is | 4057:I-, 4058:Br-, 4059:Cl-, 4060:OH-, |
| 2 | 1016 | DU_J19_MSC_B IOSCI_Q02 | The symmetry element present in a molecule of chloroform is | 4061:C2, 4062:C3, 4063:C4, 4064:C6, |
| 3 | 1017 | DU_J19_MSC_B IOSCI_Q03 | The symmetry element present in a molecule of benzene is | 4065:C3, 4066:C4, 4067:C5, 4068:C6, |
| 4 | 1018 | DU_J19_MSC_B IOSCI_Q04 | Which of the following atoms is essential for E1cB reaction to take place | 4069:Fluorine, 4070:Bromine, 4071:Sulfur, 4072:selenium, |
| 5 | 1019 | DU_J19_MSC_B IOSCI_Q05 | Which metal ion is present in the active site of alcohol dehydrogenase | 4073:Ca ²⁺ , 4074:Zn ²⁺ , 4075:Mg ²⁺ , 4076:Cd ²⁺ , |
| 6 | 1020 | DU_J19_MSC_B IOSCI_Q06 | The most basic ion among the following is | 4077:Ethoxide, 4078:Hydroxide, 4079:Acetate, 4080:Nitrate, |
| 7 | 1021 | DU_J19_MSC_B IOSCI_Q07 | The metal salt present in Ziegler natta catalyst is | 4081:TiCl ₃ , 4082:NiCl ₄ , 4083:SnCl ₂ , 4084:AlCl ₃ , |
| 8 | 1022 | DU_J19_MSC_B IOSCI_Q08 | The sequence of the bacteriophage ØX174 was delineated by | 4085:James Watson, 4086:Francis Crick, 4087:Frederick Sanger, |

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| | | | | 4088:James Watson and Francis Crick, |
| 9 | 1023 | DU_J19_MSC_B IOSCI_Q09 | The redox potential of molecular oxygen is | 4089:Positive, 4090:Negative, 4091:zero, 4092:Fractional, |
| 10 | 1024 | DU_J19_MSC_B IOSCI_Q10 | The total number of codons in human beings is | 4093:63, 4094:64, 4095:65, 4096:66, |
| 11 | 1114 | DU_J19_MSC_B IOSCI_Q100 | Which of the following buffers can be sterilized in an autoclave at 15ILBs pressure | 4453:Phosphate buffered saline with 10% glucose, 4454:Phosphate buffered saline with 10% urea, 4455:Phosphate Buffered Saline with 10% CaCl ₂ , 4456:Phosphate buffered Saline with 10% serum and 10% glucose. |
| 12 | 1025 | DU_J19_MSC_B IOSCI_Q11 | The molecule discovered by Alexander Fleming in 1928 was | 4097:Benzoic Acid, 4098:Benzene, 4099:Penicillin, 4100:Aspirin, |
| 13 | 1026 | DU_J19_MSC_B IOSCI_Q12 | The geometry of [PtCl ₄] ²⁻ complex is | 4101:tetrahedral , 4102:square planar, 4103:octahedral, 4104:square pyramidal, |
| 14 | 1027 | DU_J19_MSC_B IOSCI_Q13 | Porphyrins contain which of the following heterocyclic rings | 4105:Pyrrole, 4106:Thiophene, 4107:Furan, 4108:Dioxan, |
| 15 | 1028 | DU_J19_MSC_B IOSCI_Q14 | Which of the following metal ions can intercalate into graphite | 4109:Sc, 4110:Ti, 4111:V, 4112:K, |

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| 16 | 1029 | DU_J19_MSC_B IOSCI_Q15 | What are the three atoms present in borazine | 4113:B, N, H, 4114:B, N, C, 4115:N, C, H, 4116:B, C, H, |
| 17 | 1030 | DU_J19_MSC_B IOSCI_Q16 | Rhombic sulphur consists of | 4117:S6 rings, 4118:S7 rings, 4119:S8 rings, 4120:S10 rings, |
| 18 | 1031 | DU_J19_MSC_B IOSCI_Q17 | Wilkinson's catalyst contains the transition metal | 4121:Cr, 4122:Mn, 4123:Fe, 4124:Rh, |
| 19 | 1032 | DU_J19_MSC_B IOSCI_Q18 | 1,3-butadiene contains x number of pi electrons where x is | 4125:2, 4126:4, 4127:6, 4128:8, |
| 20 | 1033 | DU_J19_MSC_B IOSCI_Q19 | Methyl orange is used as | 4129:a Lewis acid, 4130:a Lewis base, 4131:an acid-base indicator, 4132:as a strong mineral acid, |
| 21 | 1034 | DU_J19_MSC_B IOSCI_Q20 | Valeric acid the following number of carbon atoms | 4133:4, 4134:5, 4135:6, 4136:7, |
| 22 | 1035 | DU_J19_MSC_B IOSCI_Q21 | The formation of isobutylene from tert-butyl bromide is an example of | 4137:nucleophilic substitution reaction, 4138:addition reaction, 4139:reduction reaction, 4140:elimination reaction, |
| 23 | 1036 | DU_J19_MSC_B IOSCI_Q22 | The reaction of benzoyl chloride with ammonia yields | 4141:Benzoic acid, 4142:Aniline, 4143:Benzamide, 4144:Benzophenone, |

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| 24 | 1037 | DU_J19_MSC_B IOSCI_Q23 | The reaction of pyrrole with chloroform and KOH yields | 4145:2-Phenyl pyrrole, 4146:2-Hydroxy pyrrole, 4147:2-Pyrrolicarboxaldehyde, 4148:None of these, |
| 25 | 1038 | DU_J19_MSC_B IOSCI_Q24 | 2-Picoline is also known as | 4149:2-Methyl Pyridine, 4150:2-Hydroxypyridine, 4151:2-carboxy pyridine, 4152:None of these, |
| 26 | 1039 | DU_J19_MSC_B IOSCI_Q25 | Sodio-ethylacetoacetate reacts with alkyl chloride to yield | 4153:monoalkyl ethylacetoacetate, 4154:alkyl acetate, 4155:acetic acid, 4156:2 molecules of ethanol, |
| 27 | 1040 | DU_J19_MSC_B IOSCI_Q26 | LiAlH ₄ reacts with carboxylic acids to yield | 4157:esters, 4158:Alkanes, 4159:Alcohol, 4160:Alkenes, |
| 28 | 1041 | DU_J19_MSC_B IOSCI_Q27 | Trans-2-butene has a dipole moment of | 4161:0, 4162:0.5, 4163:1, 4164:1.5, |
| 29 | 1042 | DU_J19_MSC_B IOSCI_Q28 | Cumene is used to manufacture | 4165:Benzene, 4166:Toluene, 4167:Phenol, 4168:1,2-dimethylbenzene, |
| 30 | 1043 | DU_J19_MSC_B IOSCI_Q29 | -C=O shows a lambda max in the UV region in the range of | 4169:100-130 nm, 4170:150-180 nm, 4171:270-300 nm, 4172:400-430 nm, |
| 31 | 1044 | DU_J19_MSC_B IOSCI_Q30 | Aniline reacts with aqueous bromine to yield | 4173:Bromobenzene, 4174:Benzoic acid, 4175:2,4,6-Tribromoaniline, |

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| | | | | 4176:Phenol, |
| 32 | 1045 | DU_J19_MSC_B IOSCI_Q31 | The antibiotic nonactin contains the following heterocyclic ring | 4177:Thiophene, 4178:Furan, 4179:Pyrrrole, 4180:Imidazole, |
| 33 | 1046 | DU_J19_MSC_B IOSCI_Q32 | The reaction of phenyl magnesium bromide with ethylene oxide yields | 4181:2-phenylethanol, 4182:Phenol, 4183:2 molecules of Benzoic acid, 4184:Phenylacetic acid, |
| 34 | 1047 | DU_J19_MSC_B IOSCI_Q33 | Binap usually forms complexes with | 4185:Na & K, 4186:Ca & Mg, 4187:Sn & Fe, 4188:Ru & Rh, |
| 35 | 1048 | DU_J19_MSC_B IOSCI_Q34 | Griesofulvin is an effective | 4189:Analgesic, 4190:Antipyretic, 4191:Antifungal agent, 4192:Antibiotic, |
| 36 | 1049 | DU_J19_MSC_B IOSCI_Q35 | Which of the following is not a G-protein coupled receptor? | 4193:Glycine receptor, 4194:Adrenergic receptor, 4195:Glutamate receptor, 4196:Muscarinic receptor, |
| 37 | 1050 | DU_J19_MSC_B IOSCI_Q36 | Protein kinase A is | 4197:Completely inhibited by cyclic AMP, 4198:Allosterically activated by cyclic AMP, 4199:Affected by cyclic AMP only under unusual circumstances. 4200:Activated by covalent bin, |
| 38 | 1051 | DU_J19_MSC_B IOSCI_Q37 | Site directed mutagenesis facilitated research on | 4201:Carbohydrates, 4202:Proteins, 4203:Lipids, |

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| | | | | 4204:Fats, |
| 39 | 1052 | DU_J19_MSC_B IOSCI_Q38 | Repressors in prokaryotes bind to | 4205:Promoter, 4206:Enhancer, 4207:Operator, 4208:Hormone response element, |
| 40 | 1053 | DU_J19_MSC_B IOSCI_Q39 | Actinomycin D is an inhibitor of | 4209:Transcription, 4210:Translation, 4211:Replication, 4212:None, |
| 41 | 1054 | DU_J19_MSC_B IOSCI_Q40 | Role of sigma factor in bacterial RNA polymerase is | 4213:Catalyzing RNA synthesis, 4214:Positioning RNA polymerase correctly on the DNA template. 4215:Terminating RNA synthesis, 4216:Unwinding DNA template, |
| 42 | 1055 | DU_J19_MSC_B IOSCI_Q41 | RNA primer is removed from the Okazaki fragment by | 4217:DNA polymerase I, 4218:DNA polymerase II, 4219:DNA polymerase III, 4220:RNA polymerase, |
| 43 | 1056 | DU_J19_MSC_B IOSCI_Q42 | Ubiquitin is a | 4221:Protein kinase, 4222:Protease, 4223:Component of the electron transport system, 4224:Protein that tags another protein for proteolysis, |
| 44 | 1057 | DU_J19_MSC_B IOSCI_Q43 | In which phase of cell cycle is DNA replicated? | 4225:G ₁ phase, 4226:S phase, 4227:G ₂ phase, 4228:M phase, |
| 45 | 1058 | DU_J19_MSC_B | Which of the following bacterial operon is not controlled by | 4229:Arabinose, |

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| | | IOSCI_Q44 | attenuation? | 4230:Tryptophan, 4231:Leucine, 4232:Histidine, |
| 46 | 1059 | DU_J19_MSC_B IOSCI_Q45 | Which of the following serves as bactericidal agent? | 4233:Ribonuclease, 4234:Lysozyme, 4235:Cytochrome c, 4236:Myoglobin, |
| 47 | 1060 | DU_J19_MSC_B IOSCI_Q46 | The β subunit of polymerase has a function of _____ | 4237:Promoter binding, 4238:Catalytic center, 4239:Template binding, 4240:Cation binding, |
| 48 | 1061 | DU_J19_MSC_B IOSCI_Q47 | Arrange the running pattern of plasmid in agrose gel in presence of electric field | 4241:Supercoiled plasmid will lag behind toward anode, 4242:Supercoiled plasmid will move faster toward anode, 4243:Supercoiled plasmid will move faster toward cathode, 4244:Supercoiled plasmid will not move toward cathode, |
| 49 | 1062 | DU_J19_MSC_B IOSCI_Q48 | Cancer is caused by | 4245:uncontrolled mitosis , 4246:uncontrolled meiosis , 4247:rupturing of cells , 4248:loss of immunity of the cells, |
| 50 | 1063 | DU_J19_MSC_B IOSCI_Q49 | Migration of cancerous cells from the site of origin to other parts of the body forming secondary tumor is called | 4249:diapedesis , 4250:metastasis , 4251:proliferation , 4252:mitosis, |
| 51 | 1064 | DU_J19_MSC_B IOSCI_Q50 | Which one of the following therapies will involve only the cancerous cells not the normal cells in treatment | 4253:immunotherapy , 4254:surgery , 4255:aromatherapy , 4256:chemotherapy, |

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| 52 | 1065 | DU_J19_MSC_B IOSCI_Q51 | Which one of the following cancers does not form a solid neoplasm | 4257:leukemia , 4258:lymphoma , 4259:lipoma , 4260:sarcoma, |
| 53 | 1066 | DU_J19_MSC_B IOSCI_Q52 | Incubating EGF ligand in cultured cell promotes | 4261:cellular apoptosis and activation of caspase cleavage , 4262:EGFR dimerization leading to cell survival , 4263:Inhibition of EGFR leading to proliferation , 4264:Degradation of EGF ligands , |
| 54 | 1067 | DU_J19_MSC_B IOSCI_Q53 | Replicative senescence is due to | 4265:stabilization of telomerase, 4266:degradation of telomerase, 4267:Telomere shortening, 4268:Telomere shortening with telomerase activation, |
| 55 | 1068 | DU_J19_MSC_B IOSCI_Q54 | RAS protein activation leads to | 4269:Activation of Tumor suppressor pathway, 4270:Activation of oncoprotein , 4271:Inactivation of MAP kinase pathway, 4272:Inactivation of antiapoptotic proteins, |
| 56 | 1069 | DU_J19_MSC_B IOSCI_Q55 | Retinoblastoma protein phosphorylation leads to | 4273:cell apoptosis, 4274:G1 arrest, 4275:G1 to S phase transition, 4276:binding with E2F, |

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| 57 | 1070 | DU_J19_MSC_B IOSCI_Q56 | The reason why there is a sudden shift in the electrical potential of the neuron (from about -70mv to about +50mv) during an action potential is largely due to the sudden influx of _____ ions. | 4277:Potassium, 4278:Sodium, 4279:Calcium, 4280:Chloride, |
| 58 | 1071 | DU_J19_MSC_B IOSCI_Q57 | The action potential is first formed in the | 4281:Cell body, 4282:Axon hillock, 4283:Dendrites, 4284:first few nodes of Ranvier on the axon., |
| 59 | 1072 | DU_J19_MSC_B IOSCI_Q58 | The term _____ refers to the constant state of contraction of a certain number of fibers within a muscle. | 4285:Summation, 4286:Hypertrophy, 4287:Atrophy, 4288:Tone, |
| 60 | 1073 | DU_J19_MSC_B IOSCI_Q59 | Which of the following is most likely to cause the heart to go into spastic contraction? | 4289:Increased body temperature, 4290:Decreased extracellular fluid potassium ions, 4291:Excess extracellular fluid potassium ions, 4292:Excess extracellular fluid calcium ions, |
| 61 | 1074 | DU_J19_MSC_B IOSCI_Q60 | The term "brain of gut" refers to : | 4293:Enteric nerve plexes, 4294:Cells of cajal, 4295:Autonomic nervous system, 4296:Migratory complex, |
| 62 | 1075 | DU_J19_MSC_B IOSCI_Q61 | Final common pathway for oxidation of carbohydrates, lipids and proteins is | 4297:Glycolysis, 4298:Pentose phosphate pathway, 4299:Krebs cycle, |

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| | | | | 4300:Electron transport chain, |
| 63 | 1076 | DU_J19_MSC_B IOSCI_Q62 | Which micronutrient prevents neural tube defects in the developing Fetus | 4301:Thiamine, 4302:Pyridoxine, 4303:Folate, 4304:Niacin, |
| 64 | 1077 | DU_J19_MSC_B IOSCI_Q63 | Which part of cell acts as a Capacitor? | 4305:Lipid bilayer of cell membrane, 4306:Proteins of cell membrane, 4307:Nucleus, 4308:Golgi body , |
| 65 | 1078 | DU_J19_MSC_B IOSCI_Q64 | The chief fuel for energy production in human brain during starvation is: | 4309:Cholesterol, 4310:Fatty acids, 4311:Ketone bodies, 4312:Amino acids, |
| 66 | 1079 | DU_J19_MSC_B IOSCI_Q65 | The final acceptor of electrons during oxidative phosphorylation is: | 4313:H ₂ O, 4314:O ₂ , 4315:CO ₂ , 4316:NADH, |
| 67 | 1080 | DU_J19_MSC_B IOSCI_Q66 | The dilution plate count | 4317:Can be used only during the log phase of the growth curve since it is a viable count, 4318:Yields valid results only in those phases of the growth curve in which cell are not dividina. 4319:Uses the ability to produce progeny as indicator of viability. 4320:all of these, |
| 68 | 1081 | DU_J19_MSC_B IOSCI_Q67 | Antonie Philips van Leeuwenhoek | 4321:credited with discovering microorqanism, |

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| | | | | 4322:Recognized that animalcules could be present like seeds in the air, 4323:discovered the process of attenuation in microorganisms which he scraped from his teeth. 4324:All of these, |
| 69 | 1082 | DU_J19_MSC_B IOSCI_Q68 | Gram positive bacteria responsible for food poisoning is/are | 4325:Mycoplasma, 4326:Pseudomonas, 4327:Clostridium, 4328:All of these, |
| 70 | 1083 | DU_J19_MSC_B IOSCI_Q69 | Which of the following is best used for long term storage of microbial samples | 4329:Storage in a freezer at -10degC , 4330:lyophilization of samples , 4331:storage in a refrigerator in an agar plate , 4332:storage on a petriplate at room temperature , |
| 71 | 1084 | DU_J19_MSC_B IOSCI_Q70 | Gram staining was introduced by | 4333:Christian Gram, 4334:Alfred Gram, 4335:Robert cook, 4336:Louis Pasteur, |
| 72 | 1085 | DU_J19_MSC_B IOSCI_Q71 | Which of the following is not a gram negative bacteria | 4337:Clostridium perfringes, 4338:Vibrio Cholera, 4339:Escherichia coli, 4340:Bordetella pertusis, |
| 73 | 1086 | DU_J19_MSC_B IOSCI_Q72 | The method of successful treatment of botulism prior to appearance of botulism symptom involve administration of | 4341:Antibiotic, 4342:Analgesic, 4343:Antitoxin, 4344:Antipyretic, |
| 74 | 1087 | DU_J19_MSC_B IOSCI_Q73 | Large parasite such as helminthes may be killed extracellularly by the action of | 4345:Basophils, 4346:Monocytes, |

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| | | | | 4347:Eosinophils, 4348:Neutrophils, |
| 75 | 1088 | DU_J19_MSC_B IOSCI_Q74 | Coir of commerce is | 4349:a fibre derived from coconut endosperm., 4350:a fibre made from coconut stems, 4351:a fibre derived from coconut mesocarp, 4352:a fibre derived from coconut epicarp, |
| 76 | 1089 | DU_J19_MSC_B IOSCI_Q75 | The meaning of the word callous is | 4353:Brave, 4354:heartless, 4355:rude, 4356:None of these, |
| 77 | 1090 | DU_J19_MSC_B IOSCI_Q76 | The meaning of the word ephemeral is | 4357:Gossamer like, 4358:Transient, 4359:Transparent, 4360:Opaque, |
| 78 | 1091 | DU_J19_MSC_B IOSCI_Q77 | The meaning of the word cumbersome is | 4361:Burdensome, 4362:Light, 4363:Clear, 4364:Sorrowful, |
| 79 | 1092 | DU_J19_MSC_B IOSCI_Q78 | The meaning of the word renegade is | 4365:Brave, 4366:Coward, 4367:Traitor, 4368:Soldier, |
| 80 | 1093 | DU_J19_MSC_B IOSCI_Q79 | The meaning of the word dither is | 4369:Vacillate, 4370:State, 4371:Foretell, 4372:Strength, |
| 81 | 1094 | DU_J19_MSC_B IOSCI_Q80 | The word opposite in meaning to the word zeal is | 4373:lethargy, 4374:enthusiasm, 4375:courage, 4376:ill, |
| 82 | 1095 | DU_J19_MSC_B | The word opposite in meaning to the word stoic is | 4377:emotional, |

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| | | IOSCI_Q81 | | 4378:stolid, 4379:unpleasant, 4380:quarrelsome, |
| 83 | 1096 | DU_J19_MSC_B IOSCI_Q82 | Factors of 42 are | 4381:1,12, 4382:1,9, 4383:1,6, 4384:1,4, |
| 84 | 1097 | DU_J19_MSC_B IOSCI_Q83 | The sum of the coefficients in the monomials $3a^2b$ and $-2ab^2$ is | 4385:5, 4386:-1, 4387:1, 4388:-6, |
| 85 | 1098 | DU_J19_MSC_B IOSCI_Q84 | What should be added to $3x^2+4$ to get $9x^2-7$ | 4389: $6x^2-11$, 4390: $6x^2+11$, 4391: $12x^2-11$, 4392: $12x^2+11$, |
| 86 | 1099 | DU_J19_MSC_B IOSCI_Q85 | $15x=21$; $x=?$ | 4393: $7/5$, 4394: $5/7$, 4395: $3/7$, 4396: $7/3$, |
| 87 | 1100 | DU_J19_MSC_B IOSCI_Q86 | $(x/2)-1 = (x/3)+4$; $x=?$ | 4397:15, 4398:30, 4399:45, 4400:60, |
| 88 | 1101 | DU_J19_MSC_B IOSCI_Q87 | The genetic material of Tobacco Mosaic Virus is a | 4401:dsDNA, 4402:ssRNA, 4403:ds RNA, 4404:ss DNA, |
| 89 | 1102 | DU_J19_MSC_B IOSCI_Q88 | The fruiting bodies in <i>Agaricus</i> and <i>Morchella</i> are | 4405:Ascocarps, 4406:Basidiocarps and Ascocarps, respectively, 4407:Basidiocarps, 4408:Ascocarps and Basidiocarps, respectively, |

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| 90 | 1103 | DU_J19_MSC_B IOSCI_Q89 | Which of the following macroscopic disease symptoms is NOT typical of virus infections in plants? | 4409:Stunting due to reduction in internode lengths, 4410:Mosaics, ring spots and vein clearing of leaves, 4411:Epinasty and development of leaf enations, 4412:Pustules, streaks and blotches on leaves, |
| 91 | 1104 | DU_J19_MSC_B IOSCI_Q90 | In bryophytes, meiosis occurs in the | 4413:gametophyte to produce gametangia, 4414:spores to produce protonema, 4415:gametangia to produce sperm and egg, 4416:sporogenous tissue to produce spores, |
| 92 | 1105 | DU_J19_MSC_B IOSCI_Q91 | In Gymnosperms, the female gametophyte develops from the | 4417:Haploid megaspore, 4418:Diploid megaspore, 4419:Nucellus cells, 4420:Haploid megaspore mother cell, |
| 93 | 1106 | DU_J19_MSC_B IOSCI_Q92 | "Kewda oil" is obtained from which one of the following plant species? | 4421: <i>Pandanus odoratissimus</i> , 4422: <i>Lavandula angustifolia</i> , 4423: <i>Rosmarinus officinalis</i> , 4424: <i>Nardostachys jatamansi</i> , |
| 94 | 1107 | DU_J19_MSC_B IOSCI_Q93 | Recombinant frequency of 1% is equivalent to | 4425:10 m.u, 4426:20 m.u, 4427:1 m.u, 4428:5 m.u, |
| 95 | 1108 | DU_J19_MSC_B | ALU elements are | 4429:Transposons , |

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| | | IOSCI_Q94 | | 4430:Jumping gene , 4431:SINEs , 4432:LINEs , |
| 96 | 1109 | DU_J19_MSC_B IOSCI_Q95 | Multiple alleles of a gene control inheritance of | 4433:skin color, 4434:colour blindness, 4435:sickle cell anaemia, 4436:blood groups., |
| 97 | 1110 | DU_J19_MSC_B IOSCI_Q96 | Bacterial flagella imparts motility to the cell by | 4437:undulating movement, 4438:rotatory movement, 4439:gliding movement, 4440:both, undulating movement & rotatory movement. |
| 98 | 1111 | DU_J19_MSC_B IOSCI_Q97 | Viral replication within the cells is inhibited by | 4441:IL-4, 4442:IL-1, 4443:IFN alpha, 4444:TNF alpha, |
| 99 | 1112 | DU_J19_MSC_B IOSCI_Q98 | Which of the following toxicity can occur due to single exposure? | 4445:Acute toxicity, 4446:Sub-acute toxicity, 4447:Sub-chronic toxicity, 4448:Chronic toxicity, |
| 100 | 1113 | DU_J19_MSC_B IOSCI_Q99 | Which of the following statement is incorrect | 4449:In ion exchange chromatography, the bound protein is eluted using NaCl solution.. 4450:In affinity chromatography, lectins are used to purify glycoproteins. 4451:The separation in gel filtration chromatography in based on size, shape and net charge of the protein. 4452:All of these, |