

DU PhD In Biomedical Sciences

Sr.No	Question Id	Question Description	Question Body	Options
1	863	DU_J19_P HD_BIOS CI_Q01	For chronic myeloid leukemia one of the best chemotherapy drugs used is:	3449: Imatinib, 3450: Bleomycin, 3451: Adriamycin, 3452: cisplatin,
2	864	DU_J19_P HD_BIOS CI_Q02	The enzyme of E.coli that initiates the repair of double stranded DNA breaks by homologous recombination (base excision repair in DNA)	3453: DNA glycosylase, 3454: DNA ligase, 3455: DNA polymerase, 3456: RNA polymerase,
3	865	DU_J19_P HD_BIOS CI_Q03	What is the function of the ω subunit of RNA polymerase?	3457: Subunit association, 3458: Promoter binding, 3459: Initiation and elongation, 3460: Cation binding,
4	866	DU_J19_P HD_BIOS CI_Q04	Four types of σ factors are known ,of them which one used during Nitrogen deficiency?	3461: σ_{70} , 3462: σ_{32} , 3463: σ_{54} , 3464: σ_{28} ,
5	867	DU_J19_P HD_BIOS CI_Q05	Once the tRNA is aminoacylated, EF-Tu binds to the tRNA at the _____	3465: 5' end of the tRNA, 3466: 3' end of the tRNA, 3467: Amino acid, 3468: Variable loop of tRNA,
6	868	DU_J19_P HD_BIOS CI_Q06	The completion of translocation requires the action of the factor _____	3469: EF-Tu, 3470: EF-G,

		CI_Q06		3471:eIF2, 3472:eIF4G,
7	869	DU_J19_P HD_BIOS CI_Q07	Which of the following is an Ubiquitin activating enzyme?	3473:E1, 3474:E2, 3475:E3, 3476:E4,
8	870	DU_J19_P HD_BIOS CI_Q08	At the end of each phase of cell cycle, cyclins activating Cdks in that phase are inactivated irreversibly by	3477:Multiple phosphorylations, 3478:De-phosphorylation, 3479:Ubiquitinylation, 3480:Destabilizing by proteolysis in a proteasome.
9	871	DU_J19_P HD_BIOS CI_Q09	MICA and MICB are	3481:Major Histocompatibility Complex molecules that regulate immunity, 3482:Memory Induced Complementary Antigen A and B, 3483:Mouse Incomplete C-Reactive Antigen A and B, 3484:Micro- Interleukin Complex A and B,
10	872	DU_J19_P HD_BIOS CI_Q10	MAIT stands for:	3485: Minor antigen of Inducible T cell, 3486:Mucosal Associated Invariant T cell.

				3487:Memory Associated islet cell, 3488:Micro-RNA Associated Inducible T cells.
11	873	DU_J19_P HD_BIOS CI_Q11	Central – Supramolecular Associated Clusters and Peripheral-Suramolecular Associated clusters relate to:	3489: Genes for B cell maturation, 3490:Genes for T cell maturation, 3491:miRNAs in Introns for innate immunity, 3492:Specific regions in the immune synapse,
12	874	DU_J19_P HD_BIOS CI_Q12	Atopic individuals are:	3493: Prone to allergy, 3494:Prone to autoimmunity, 3495:Tolerant to allergy, 3496:Tolerant to infection,
13	875	DU_J19_P HD_BIOS CI_Q13	MAGE, PRAME and NY-ESO-1 are examples of	3497: Allergens, 3498:Virulence factors of Staphylococcus aureus, 3499:Tumor antigens, 3500:B cell maturation marker,
14	876	DU_J19_P HD_BIOS CI_Q14	CD69 and Ki-67 are	3501: T cell activation markers, 3502:B cell activation markers,

				3503:Dendritic cell activation markers, 3504:Macrophage activation marker,
15	877	DU_J19_P HD_BIOS CI_Q15	T-bet and GATA are:	3505: Transcription factors that promote T helper cell 1 and T helper cell 2 differentiation, <i>respectively</i> 3506:Transcription factors that promote T helper cell 2 and T helper cell 1 differentiation marker, <i>respectively</i> 3507:Cytokines that regulate cell differentiation into plasma cells and memory cells, <i>respectively</i> 3508:Proteins secreted by cytotoxic T cells that kill infected macrophages,
16	878	DU_J19_P HD_BIOS CI_Q16	MyD88, IRAK1 and IRAKM are molecules that belong to the:	3509: B cell receptor induced signaling pathway. 3510:T cell receptor induced signaling pathway. 3511:EGF receptor induced signaling pathway.

				3512:Toll like receptor induced signaling pathway.
17	879	DU_J19_P HD_BIOS CI_Q17	HVEM and LIGHT are	3513: Costimulatory molecules that regulate immune response, 3514:Transcription factors that regulate immune responses. 3515:Kinases that regulate immune responses. 3516:Phosphatases that regulate immune response.
18	880	DU_J19_P HD_BIOS CI_Q18	Plasmid stability in cells is maintained by	3517: RepA, 3518:Ori gene, 3519:Par, 3520:Rop,
19	881	DU_J19_P HD_BIOS CI_Q19	DNA ligase	3521: Synthesizes DNA in 5'- 3' direction, 3522:Facilitate Phosphodiester bonds , 3523:Maintain plasmid supercoiling, 3524:Prevent DNA from restriction endonuclease mediated digestion.
20	882	DU_J19_P HD_BIOS CI_Q20	The reaction of water with ethylene oxide yields in the presence of acid	3525: 1,2-Ethanediol, 3526:Ethanol,

				3527:Acetic acid, 3528:Acetaldehyde,
21	883	DU_J19_P HD_BIOS CI_Q21	A transition state of high energy is formed in the following reaction	3529: SN1, 3530:SN2, 3531:E1, 3532:None of these,
22	884	DU_J19_P HD_BIOS CI_Q22	Crystal violet is used	3533: as an acid base indicator, 3534:to dye silk and wool, 3535:for dehydration, 3536:as a Lewis base,
23	885	DU_J19_P HD_BIOS CI_Q23	Formation of turbidity on reaction of a plant extract with Phosphomolybdic acid indicates the presence of	3537: an alkaloid, 3538:a phytosteroid, 3539:a carboxylic acid, 3540:a triterpenoid,
24	886	DU_J19_P HD_BIOS CI_Q24	The reaction of Lithium acetylide with n-Butyl bromide yields	3541: 1-Pentyne, 3542:1-Hexyne, 3543:1-Heptyne, 3544:1-Butyne,
25	887	DU_J19_P HD_BIOS CI_Q25	The reaction of benzoic acid and sodium bicarbonate yields	3545: Benzaldehyde, 3546:Sodium benzoate , 3547:Benzyne, 3548:1-Phenylethane,
26	888	DU_J19_P HD_BIOS CI_Q26	Aniline reacts with 2 moles of Methylchloride to yield	3549: N,N- dimethylaniline, 3550:Toluene, 3551:4-Methylaniline,

				3552:2,4-Dimethylaniline,
27	889	DU_J19_P HD_BIOS CI_Q27	n-Butane reacts with Sulphur at 560°C to yield	3553: Butane thiol, 3554:Dibutyldisulfide, 3555:Thiophene, 3556:None of these,
28	890	DU_J19_P HD_BIOS CI_Q28	LDA is used as	3557: A base, 3558:An acid, 3559:A dehydrating agent, 3560:None of these,
29	891	DU_J19_P HD_BIOS CI_Q29	Some neurons in the vagus nerve terminate on sinoatrial (pacemaker) cells in the heart. These neurons secrete acetylcholine, which ultimately results in a decreased heart rate. This is an example of	3561: Neural Control, 3562:Exocrine Control, 3563:Endocrine Control, 3564: Hormonal Control,
30	892	DU_J19_P HD_BIOS CI_Q30	During isotonic contraction of a skeletal-muscle fibre the	3565:Sarcomeres shorten. , 3566:A bands shorten. , 3567:I bands shorten. , 3568:Sarcomeres shorten and I bands shorten. ,
31	893	DU_J19_P HD_BIOS CI_Q31	According to the Frank-Starling mechanism of the heart,	3569:the left ventricle ejects a larger volume of blood with each systole than the right ventricle.,

				3570:the intrinsic rate of the heart's pacemaker is 100 beats/min.. 3571:cardiac output increases with increased heart rate.. 3572: stroke volume increases with increased venous return.
32	894	DU_J19_P HD_BIOS CI_Q32	In order for the lungs to function normally, the intrapleural pressure must	3573: be lower than alveolar pressure., 3574:be between +5 and +10 mmHg above atmospheric pressure., 3575:alternate between being less than and greater than atmospheric pressure., 3576:change as the respiratory demands of the body change..
33	895	DU_J19_P HD_BIOS CI_Q33	Most of the CO2 that is transported in blood	3577: is dissolved in the plasma., 3578:is bound to hemoglobin., 3579:is in carbonic acid., 3580:is in bicarbonate ion.,
34	896	DU_J19_P HD_BIOS CI_Q34	Which is true about composition of Blood	3581:Plasma-55%, Protein/WBC-1%, RBC-45% .

				3582:Plasma-50%, Protein/WBC-3%, RBC-47% , 3583:Plasma-45%, Protein/WBC-4%, RBC-51% . 3584:Plasma-35%, Protein/WBC-2%, RBC-65% .
35	897	DU_J19_P HD_BIOS CI_Q35	Erythropoietin secretion is stimulated by	3585: Low blood volume, Anemia, poor blood flow. 3586:Low Hemoglobin, excess blood flow, 3587:Pulmonary diseases, hypererythremia, excess blood flow. 3588:Low blood volume, hypererythremia, pulmonary diseases.
36	898	DU_J19_P HD_BIOS CI_Q36	Mendel's principle of dominance stated that when an individual has a hybrid genotype, it will only express the dominant trait in its phenotype. Which of the following types of inheritance do not agree with this principle? I) co-dominance II) multiple alleles III) incomplete dominance	3589:I and II only , 3590:II and III only, 3591:I and III only , 3592:I, II and III,
37	899	DU_J19_P HD_BIOS CI_Q37	Chromosomes found in the salivary gland of Drosophila is	3593:Lampbrush, 3594:Polytene, 3595:Supernumerary, 3596:B-chromosomes.,
38	900	DU_J19_P HD_BIOS CI_Q38	Drosophila has four pairs of chromosomes. How many linkage groups does it have	3597: Eight, 3598:Four,

		CI_Q38		3599:One less than the pairs of chromosomes, 3600:One more than the pairs of chromosomes.
39	901	DU_J19_P HD_BIOS CI_Q39	During the development, if a cell has committed to a particular fate, it is said to be	3601:Pluripotent , 3602:totipotent , 3603:determined , 3604:differentiated ,
40	902	DU_J19_P HD_BIOS CI_Q40	The initial dorsal ventral axis in amphibian embryo is determined by	3605: the point of sperm entry, 3606:gravity, 3607:the point of contact with uterus, 3608:genetics difference in the cells,
41	903	DU_J19_P HD_BIOS CI_Q41	Gram Positive bacteria	3609:Have one more membrane that helps retain the crystal violet stain. 3610:Have multiple layers of peptidoglycan that help retain the crystal violet stain, 3611:Have a thick capsule that traps the crystal violet stain, 3612:Have periplasmic space that trap the crystal violet,

42	904	DU_J19_P HD_BIOS CI_Q42	Plasmids are important to many bacteria because	3613:They may carry genes that give their host a selective advantage . 3614:They can render bacteria drug resistant. 3615:None of the above , 3616:Both (They can render bacteria drug resistant) and (They may carry genes that give their host a selective advantage) ,
43	905	DU_J19_P HD_BIOS CI_Q43	Magnetosomes present in some bacteria	3617: Help cells attach to metal object, 3618:help cells to magnetically attach to each other. 3619:Help cells to float on the surface of fresh water bodies, 3620:Help cells to orient in earth magnetic field.
44	906	DU_J19_P HD_BIOS CI_Q44	Action of traditional NSAID's	3621: Inhibit COX-1, 3622:Inhibit COX-2, 3623:Do not inhibit COX-1 or COX-2, 3624:Both Inhibit COX-1 and Inhibit COX-2,

45	907	DU_J19_P HD_BIOS CI_Q45	Which of the following is an Antihistamine?	3625: Chlorpheniramine, 3626:Pseudoephedrine, 3627:Glycopyrrolate, 3628:Epinephrin,
46	908	DU_J19_P HD_BIOS CI_Q46	What is bioavailability?	3629: The amount of available drug to be used for biological testing. 3630:The amount of medication in your blood that is available to produce an effect, 3631:The amount of blood that is available for transfusion, 3632:The amount of drug that is biometrically excreted in your blood,
47	909	DU_J19_P HD_BIOS CI_Q47	Which of the following is the primary site of activity for the drug Warfarin?	3633: Kidney , 3634:Liver , 3635:Blood , 3636:Heart,
48	910	DU_J19_P HD_BIOS CI_Q48	The LD50 is calculated from:	3637:aquantal dose-response curve, 3638:ahormesis dose-response curve, 3639: a graded dose-response curve,

				3640:a log-log dose-response curve,
49	911	DU_J19_P HD_BIOS CI_Q49	Potassium sparing diuretics have the primary effect upon which part of the kidney.	3641:Proximal convoluted tubule , 3642:Loop of Henle, 3643:Collecting duct , 3644:Distal convoluted tubule,
50	912	DU_J19_P HD_BIOS CI_Q50	Which of the following is a long-term side effect of amphetamine?	3645: Euphoria, 3646: hair loss, 3647:constipation, 3648:depression,