

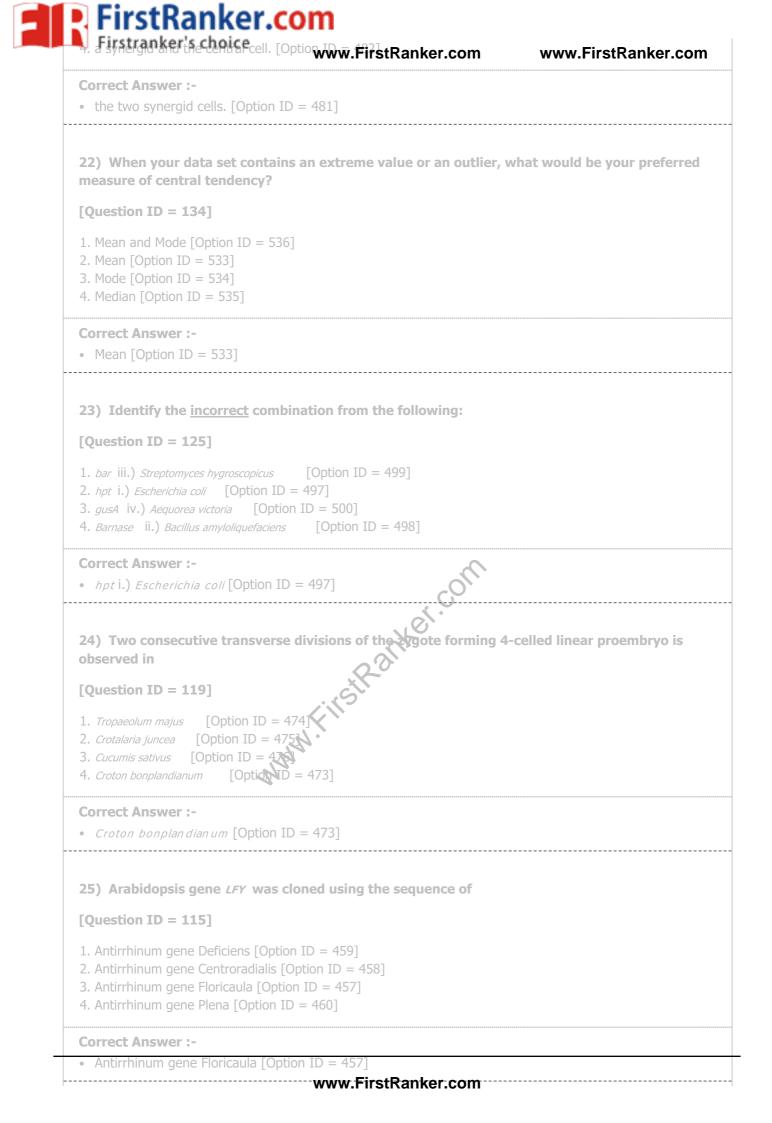
DU MPhil PhD in Botany
Topic:- DU_J19_MPHIL_BOT
 Bacteria, living in the tissues of tube worms, synthesize organic compounds using [Question ID = 122] Oxides of silicon [Option ID = 488]
 Oxides of silicon [Option ID = 485] Hydrogen peroxide. [Option ID = 487] Sulphur dioxide. [Option ID = 486]
Correct Answer :- • Hydrogen sulfide [Option ID = 485]
2) Which of the following statements is <u>not true</u> for the process of continuous fermentation?
[Question ID = 152]
 Fermentation process never stops in between, and it continues to run for a long period of time with addition of nutrients and harvesting of metabolites at regular interval. [Option ID = 606] Exponential growth of microbes is maintained in the fermenter for a prolonged period of time. [Option ID = 605] It is very useful for processes that involve the production of secondary metabolites. [Option ID = 607] It is an open system. [Option ID = 608]
 Correct Answer :- Exponential growth of microbes is maintained in the termenter for a prolonged period of time. [Option ID = 605]
3) Which of the following statements is <u>not true</u> for CRISPR-Cas system?
[Question ID = 110]
1. It cannot be used for RNA equing. [Option $ID = 440$]
 It can be used to generate double stranded nicks in the DNA. [Option ID = 439] It can be used as a vehicle to transfer activators to the target DNA region. [Option ID = 437] It can be used for both genome editing and gene regulation. [Option ID = 438]
Correct Answer :-
• It can be used as a vehicle to transfer activators to the target DNA region. [Option ID = 437]
4) Which of the following statements is <u>not true</u> about the sex chromosomes in Humans?
[Question ID = 139]
 A homologous region, called as Pseudo autosomal region, helps in pairing of X and Y chromosomes during meiosis. [Option ID = 553] There are no genes present on Y chromosome. [Option ID = 556]
3. There are palindromes present on Y chromosome. [Option ID = 555]

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Correct Answer :-	
A homologous region, called as Pseudo autosomal region, helps in pair	ing of X and Y chromosomes
during meiosis. [Option ID = 553]	
5) Which of the following statements is <u>not true</u> for population ba	sed (association) mapping in
plants?	(
[Question ID = 140]	
1. It allows for a simultaneous evaluation of multiple alleles. [Option $ID = 5$	
2. Population used is generated by crossing desired parents. [Option ID = 5	
3. The QTLs identified through association mapping generally have wider a 4. The approach is based on the linkage disequilibrium between loci. [Optic	
Correct Answer :-	
• The QTLs identified through association mapping generally have wider	applicability. [Option ID = 557]
6) Which of the following statements about column chromatograp	ohy is <u>correct</u> ?
[Question ID = 118]	
1. In reverse phase chromatography, the protein of interest can be selectiv	ely eluted by solutions of differen
hydrophobicities or ionic strengths. [Option ID = 470] 2. Ion-exchange chromatography separates proteins according to their size	. [Option ID = 471]
3. Gel-filtration chromatography separates proteins on their ability to bind t	
matrix. [Option ID = 472] 4. Affinity chromatography involves the attachment of ionic groups to the c	olumn matrix which hind and
separate proteins based on their charge. [Option ID = 469]	
Correct Answer :-	
• Affinity chromatography involves the attachments ionic groups to the separate proteins based on their charge. [Option ID = 469]	e column matrix which bind and
CIN ^O	
7) Which of the following is <u>not true</u> about AFLP markers?	
[Question ID = 109]	
1. AFLP adapters are double stranded. [Option ID = 435]	
2. No prior sequence information of the target genomes is required. [Option	n ID = 436]
3. They show codominant inheritance pattern. [Option ID = 433]	
4. They involve double digestion of genomic DNA. [Option $ID = 434$]	
Correct Answer :-	
• They show codominant inheritance pattern. [Option ID = 433]	
8) Which of the following <u>is not</u> a characteristic feature of necrotr	ophic pathogens?
[Question ID = 150]	
1 Declarity (basing [Oction ID - 500]	
1. Production of toxins [Option ID = 598]	



		ossession of Chlorophylls A and vall and live in freshwater and
ion ID = 515] 1 ID = 516] n ID = 514] n ID = 513]		
ID = 516] n ID = 514] n ID = 513]		
on ID = 513]		
ollowing genes has	been used in the develop	ment of 2 nd generation Bt cotto
7]		
9 = 585] 9 = 586]		
) = 585]	m	
	, co	
he following statem	ents <u>is true</u> genetic m	apping?
3]	a all	
s than 3 is generally re quencies are additive.	oppmended to develop a lini Option ID = 430]	kage map. [Option ID = 432]
same chromosome ca	n exhibit 50% recombinatio	n frequency. [Option ID = 429]
	7] 0 = 588] 0 = 585] 0 = 586] 0 = 587] D = 585] the following statem 8] same chromosome cars than 3 is generally requencies are additive. If quencies are directly properties are directly	7] D = 588] D = 585] D = 586] D = 587] D = 585] the following statements is true of genetic m

[Question ID = 114]	COM ^{g stat} www:FirstRanker.com ^{amino a} www:FirstRanke
 It is commonly present in β-turn It is commonly present in collage 	
Correct Answer :- It is found in middle of a-helix (of globular proteins [Option ID = 453]
18) Which one of the following	g statements is <u>not true</u> for C-value?
[Question ID = 111]	
2. The complexity of the organism 3. It refers to DNA content of the h	of the cell cycle. [Option ID = 443] is proportional to its C-value. [Option ID = 444] haploid genome. [Option ID = 441] tissues of an organism. [Option ID = 442]
Correct Answer :- It refers to DNA content of the 	haploid genome. [Option ID = 441]
19) Which one of the following	g substrates is used for screening blue-white colonies?
[Question ID = 127]	
 5-Bromo-3-indolyl-β-D-galactopy 5-Bromo-5-chloro-3-indolyl-β-D- 5-Bromo-4-chloro-3-indolyl-β-D- N-Methyl-3-indolyl-β-D-galactop 	-glucronoside [Option ID = 508] -galactoside [Option ID = 505]
Correct Answer :- • 5-Bromo-3-indolyl-β-D-galactop	byranoside [100 ion ID = 505]
20) Which one of the following	g is calcium ionophore?
[Question ID = 113]	
1. Quin 2 [Option ID = 451] 2. A23187 [Option ID = 449] 3. BAPTA [Option ID = 452] 4. Cameleon [Option ID = 450]	
Correct Answer :- • A23187 [Option ID = 449]	
21) Pollen tube near the micro	opyle ceases to grow after receiving the signal from
[Question ID = 121]	



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26) Of the following types, which Bryophytes?		
a) Chloronema b) Gametophore c) Caulonema d) Leaf e) Sporophyte f) Rhizoid		
[Question ID = 130]		
 Leaf and Sporophyte only [Option Rhizoid, sporophyte and leaf, only Sporophyte and rhizoid only [Option Sporophyte only [Option ID = 520] 	[Option ID = 518] on ID = 519]	
Correct Answer :- Leaf and Sporophyte only [Option 	1 ID = 517]	
27) During photorespiration, cor	nversion of glyoxylate to glycine	takes place in the
[Question ID = 143]		
 Cytoplasm [Option ID = 572] Peroxisome [Option ID = 570] Mitochondria [Option ID = 571] Chloroplast [Option ID = 569] 	2.	
Correct Answer :- Chloroplast [Option ID = 569] 	yer.co	
28) Serial-secondary endosymbi [Question ID = 144]	iosis is evidenced in	
 Dinoflagellates [Option ID = 573] Cryptophytes [Option ID = 575] Chloroarachinophytes [Option ID = 574] Haptophytes [Option ID = 574] 	= 576]	
Correct Answer :- • Dinoflagellates [Option ID = 573]		
29) Ongoing dispersal can join n [Question ID = 132]	numerous subpopulations to forn	n one of the following:
 Population corridor [Option ID = 5 Population patch [Option ID = 525 Metapopulation [Option ID = 527] Habitat patch [Option ID = 526] 	5]	

Correct Answer :-

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30) "The movement of proteins within the membrane is not unrestricted" was revealed by the
techniques,
[Question ID = 105]
1. FRAP and Immunogold labelling [Option ID = 420]
2. Fluorescent Resonance Energy Transfer (FRET) and Single Particle Tracking [Option ID = 417]
3. Fluorescent Recovery after Photobleaching (FRAP) and Single Particle Tracking [Option ID = 418]
4. FRET and Immunogold labelling [Option ID = 419]
Correct Answer :-

    Fluorescent Resonance Energy Transfer (FRET) and Single Particle Tracking [Option ID = 417]

                            formation of sporogenous tissue is confined to the inner region of
31) In Arabidopsis thaliana,
an anther locule due to the interaction between
[Question ID = 120]
1. WUSCHEL and CLAVATA [Option ID = 477]
2. NOZZLE and BARELY ANY MERISTEM 1
                                  [Option ID = 478]
3. APETALA 1 and PISTILLATA [Option ID = 480]
4. AGAMOUS and WUSCHEL
                       [Option ID = 479]
Correct Answer :-

    WUSCHEL and CLAVATA [Option ID = 477]

32) Small interfering RNAs (siRNAs) associate with which of the following enzymes to
                                     IrstRanker
epigenetically modify cytosine at 5'-CHH-3' sites?
[Question ID = 145]
1. DNMT only [Option ID = 577]
2. CMT3 and DRM1 [Option ID = 579]
3. DRM1 only [Option ID = 578]
4. DRM 1 and DRM 2 [Option ID =
Correct Answer :-

    DNMT only [Option ID = 5

33) Strip cropping is helpful in conserving soil in areas that are
[Question ID = 142]
1. erosion-prone [Option ID = 566]
2. fire-prone [Option ID = 568]
3. drought-prone [Option ID = 565]
4. flood-prone [Option ID = 567]
Correct Answer :-

    drought-prone [Option ID = 565]
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FirstRanker.com Firstranker's choice is convint. FirstRanker.compression www.FirstRanker.com class genes in different whorls. In an Arabidopsis mutant, the flower had carpel, stamen, stamen and carpels in the four whorls. Mutation in which one of the following is responsible for this phenotype? [Question ID = 116] 1. 'C' class genes [Option ID = 464] 2. 'B' class genes [Option ID = 462] 3. 'A' class genes [Option ID = 461] 4. 'A' and 'B' class genes [Option ID = 463] **Correct Answer :-**• 'A' class genes [Option ID = 461] 35) In tandem mass spectrometer, the mass selected ions produce daughter ions by [Question ID = 135] 1. Inert gas activation [Option ID = 539] 2. Collisional activation [Option ID = 537] 3. Thermal activation [Option ID = 540] 4. Evaporational activation [Option ID = 538] **Correct Answer :-** Collisional activation [Option ID = 537] 36) Agar, a solidifying agent, used in various bacteriological culture media, is produced from 37) For conducting a western blotting experiment to detect myrosinase protein using anti-[Question ID = 136] 1. Anti-rabbit secondary antibodies raised in mice [Option ID = 541] 2. Anti-rabbit secondary antibodies raised in rabbit [Option ID = 542] 3. Anti-mice secondary antibodies raised in mice [Option ID = 543] 4. Anti-mice secondary antibodies raised in rabbit [Option ID = 544] **Correct Answer :-** Anti-rabbit secondary antibodies raised in mice [Option ID = 541] 38) What are isobaric tags?

 4. Fluorescent labels for proteins [Option ID = 468] Correct Answer :- Molecules of equal charge [Option ID = 465] 39) Which one of the following statements about eukaryotic transcription is true? i) TFIID contains TATA binding protein and is required for interacting with type II promoter transcription of mRNA ii) Both helicase and kinase activity reside in TFIIH. iii) Phosphorylation at carboxy terminal domain of RNA Polymerase II by TFIIS, occurs at S residue iv) Splice sites are located by SR proteins that bind to Exonic Splice Enhancers (ESE) in premRNA [Question ID = 103] 1. i), iii) and iv) only [Option ID = 409] 2. i) and ii) only [Option ID = 412] 3. i) and ii) only [Option ID = 411] Correct Answer :- i) H1. [Option ID = 413] Correct Answer :- i+1. [Option ID = 413] Correct Answer :- i+1. [Option ID = 413] Correct Answer :- i+1. [Option ID = 413] Correct Answer :- i+1. [Option ID = 413] Correct Answer :- i+1. [Option ID = 413] Correct Answer :- i+1. [Option ID = 413] Correct Answer :- i+1. [Option ID = 413] Correct Answer :- i+1. [Option ID = 413] Correct Answer :- i+1. [Option ID = 413] Correct Answer :- i+1. [Option ID = 413] A dual of the speem cells from two different male parents [Option ID = 547] i+ egg and central cells of one ovule by two sperm cells from the same parent [Option ID = 546] i+ the egg and central cells of one ovule by sperm cells from two different male parents [Option ID = 546]	
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and egg and contrain control of other office of opening control and the cane indice particular population ap-	
	on ID = 545
42) Genomes of the majority of plant viruses consist of	on ID = 545

	I. double stranded RNA. [Option ID = 5% www.FirstRanker.com www.FirstRanker.com 2. double stranded DNA. [Option ID = 593] 3. single stranded negative RNA. [Option ID = 596] 4. single stranded positive RNA. [Option ID = 595]
	Correct Answer :- • double stranded DNA. [Option ID = 593]
	43) The percentage of structural glycoproteins present in Type II cell walls varies from
	[Question ID = 107]
	1. 10-20%. [Option ID = 425] 2. 2-10%. [Option ID = 426] 3. 1-2%. [Option ID = 428] 4. 30-50%. [Option ID = 427]
	Correct Answer :-
_	• 10-20%. [Option ID = 425]
	44) The chromogenic substrate used for X-gal is
	[Question ID = 126]
	 5-chloro-5-bromo-3 indolyl-beta-D-galactoside. [Option ID = 503] 5-chloro-4-bromo-3 indolyl-beta-D-galactoside. [Option ID = 501] 5-bromo-4-chloro-3 indolyl-beta-D-galactoside [Option ID = 502] 5-bromo-5-chloro-3 indolyl-beta-D-galactoside. [Option ID = 504]
	Correct Answer :-
	 5-chloro-4-bromo-3 indolyl-beta-D-galactoside. [Option = 501]
	 45) The correct arrangement of the various components in optical path of a Phase Contrast microscope is [Question ID = 106] 1. Light source-condenser-annular enerture-stage-objective-phase shifting plate-eye piece [Option ID = 42 2. Light source-condenser-annular aperture-stage-phase shifting plate-objective- eye piece [Option ID = 42
	 3. Light source-annular aperture-condenser-stage-objective-phase shifting plate-eye piece [Option ID = 42 4. Light source- annular aperture-condenser- stage- phase shifting plate-objective-eye piece [Option ID = 424]
	 Correct Answer :- Light source-condenser-annular aperture-stage-objective-phase shifting plate-eye piece [Option ID = 421]
	46) The equilibrium model of Island biogeography is a balance between one of the following:
	[Question ID = 131]
	1. Extinction and species isolation [Option ID = 524]

