Instructions (shown before students start the test)



- The rules for this event have been adapted for our virtual tournament and follow the 2020-2021 Regional Rules.
- For fill-in-the-blank questions, the capitalization of the answers (e.g, <u>A</u>nswer vs. <u>a</u>nswer) will **NOT** be considered (i.e, both answers will be accepted). However, incorrect spelling and unnecessary spaces before/after the answers will lead to an incorrect answer. Keep this in mind!
- · For multiple-choice questions with multiple answers, it's ALL or NOTHING there's no partial credit!
- The maximum number of obtainable points on this exam is 116.
- Leaving the test window is NOT acceptable time outside the browser will be monitored by Scilympiad!!
- If you have any questions or concerns regarding this exam, feel free to contact me through the following email once the testing window has concluded: shrayenpatel@utexas.edu
- Exam Author: Shrayen Patel, The University of Texas at Austin, B.S. Biology '24
- Per Texas Science Olympiad rules, you must have printed notes for this event. If you are communicating with your partner through a voice or video call, please start it before you begin the test itself.

Significant time spent outside of the browser window is grounds for a penalty or disqualification per TSO policies.

Introduction (shown after students start the test)

B) 75% peach, 25% red
C) 50% peach, 50% red
D) 25% peach, 75% red
E) 0% peach, 100% red

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Use the following scenario for the next 3 questions (1-3):
In giants, peach skin (R) is dominant to red skin (r).
1. (1.00 pts) If a true-breeding peach-skinned giant is crossed with a true-breeding red-skinned giant, what percentage of the offspring will be peach-skinned and what percentage of the offspring will be red-skinned? The offspring here are considered the F1 generation for this sequence of questions.
O A) 100% peach, 0% red
O B) 75% peach, 25% red
O C) 50% peach, 50% red
O D) 25% peach, 75% red
O E) 0% peach, 100% red
2. (1.00 pts) If two F1 individuals are crossed with one another, what percentage of the offspring will be peach-skinned and what percentage of the offspring will be red-skinned? The offspring here are considered the F2 generation for this sequence of questions.
○ A) 100% peach 0% red

3. (3.00 pts) If two F2 individuals are crossed with one another, what percentage of the offspring will be peach-skinned and what percentage of the offspring will be red-skinned? The offspring he are considered the F3 generation for this sequence of questions.
(Mark ALL correct answers)
□ A) 100% peach, 0% red
B) 75% peach, 25% red
☐ C) 50% peach, 50% red
☐ D) 25% peach, 75% red
□ E) 0% peach, 100% red
Use the following scenario for the next 5 questions (4-8):
In wizards, a purple coat (P) is dominant to a blue coat (p). Being fast (F) is dominant to being slow (f) as well.
4. (1.00 pts) If a true-breeding purple-coated + fast minion is crossed with a true-breeding blue-coated + slow minion, what percentage of the offspring will be blue-coated and what percentage of the offspring will be fast? The offspring here are considered the F1 generation for this sequence of questions.
O A) 100% blue-coated, 100% fast
O B) 50% blue-coated, 0% fast
C) 100% blue-coated, 0% fast
Op) 0% blue-coated, 100% fast
○ E) 0% blue-coated, 50% fast
F) 50% blue-coated, 50% fast
C F) 00% blue-ocated, 00% last
5. (2.00 pts) If two F1 individuals are crossed with one another, what percentage of the offspring will be purple-coated + slow and what percentage of the offspring will be blue-coated + fast? The offspring here are considered the F2 generation for this sequence of questions
○ A) 56.25% purple-coated + slow, 62.5% blue-coated + fast
O B) 31.25% purple-coated + slow, 18.75% blue-coated + fast
C) 12.5% purple-coated + slow, 43.75% blue-coated + fast
O D) 18.75% purple-coated + slow, 18.75% blue-coated + fast
○ E) 37.5% purple-coated + slow, 37.5% blue-coated + fast
O F) 18.75% purple-coated + slow, 37.5% blue-coated + fast
6. (1.00 pts) If a testcross performed with a purple-coated + slow wizard results in a progeny class of 50% purple-coated + slow wizards, 50% blue-coated + slow wizards, 0% purple-coated + fast wizards, what must be the genotype of the purple-coated + slow wizard used in the testcross?
O A) PPFf
O B) PpFf
O C) ppFf
O D) PPff
○ E) Ppff
○ F) ppff
7. (2.00 pts) If a testcross performed with a purple-coated + fast wizard results in a progeny class of 25% purple-coated + slow wizards, 25% blue-coated + slow wizards, 25% blue-coated + fast wizards, and 25% blue-coated + fast wizards, what must be the genotype of the purple-coated + fast wizard used in the testcross?
O A) PPFf
O B) PpFf
○ C) ppFf
$oldsymbol{\epsilon}$

O D) PPFF
○ E) PpFF
○ F) ppFF
8. (3.00 pts) If two F2 individuals are crossed with one another, what percentage of the offspring will be purple-coated + fast and what percentage of the offspring will be blue-coated + fast? The
offspring here are considered the F3 generation for this sequence of questions.
(Mark ALL correct answers) A) 37.5% purple-coated + fast, 12.5% blue-coated + fast
B) 25% purple-coated + fast, 25% blue-coated + fast
C) 50% purple-coated + fast, 0% blue-coated + fast
,
F) 0% purple-coated + fast, 75% blue-coated + fast
Use the following scenario for the next 3 questions (9-11):
Let's say that in miners, one dominant trait is required for a troop to dig. In this case, both an AaBB individual and an Aabb individual would dig.
9. (1.00 pts)
If an AaBb individual were mated with an AaBb individual, what would the resulting phenotypic ratio of dig: non-dig be in the offspring? The offspring here are considered the F2 generation for this sequence of questions.
O A) 15:1
O B) 13:3
O C) 12:3:1
O D) 9:7
O E) 9:4:3
○ F) 9:3:3:1
10. (1.00 pts) The phenotypic ratio given from the above problem is representative of what specific epistatic pattern?
11. (2.00 pts)
Now let's say that over time, non-digging miners aren't evolutionarily favored and, although the genotype for non-digging miners is still in the genetic pool at this time, zygotes coding for non-digging miners aren't viable and die before birth. If an AaBb individual was mated with another AaBb individual, what would be the percentage of homozygous miners in the resulting progeny? Round to the nearest integer & exclude the % sign in your answer.
Use the following scenario for the next 3 questions (12-14):
Let's say that in dragons, two dominant traits are required for a troop to exhale fire. In this case, an AaBB individual would exhale fire, but an Aabb individual would not.
12 (2.00 ptc)
12. (2.00 pts) If an AaBb individual were mated with an AaBb individual, what would the resulting phenotypic ratio of fire-exhaling: non-fire exhaling be in the offspring? The offspring here are considered the F2 generation for this sequence of questions.
O A) 15:1
O B) 13:3
O C) 12:3:1

○ E) 9:4:3	
○ F) 9:3:3:1	
13. (2.00 pts) The pheno	typic ratio given from the above problem is representative of what specific epistatic pattern?
zygotes coding for non-fire	, non-fire exhaling dragons aren't evolutionarily favored and, although the genotype for non-fire exhaling dragons is still in the genetic pool at this time, exhaling dragons aren't viable and die before birth. If an AaBb individual was mated with another AaBb individual, what would be the percentage of resulting progeny? Round to the nearest integer & exclude the % sign in your answer.
	with a multifactorial pattern of inheritance - for this reason, individuals with mutations in genes coding for neuregulin, proline dehydrogenase, and other levels of intensity of the disease.
○ True ○ False	
40 (4.00 (4.)	LICE AND POTTURE WELL THE THE
16. (1.00 pts) Height and	skin color are BOTH multifactorial traits.
○ True ○ False	
17. (1.00 pts) In eukaryot	tes, but not prokaryotes, transcription begins with the binding of transcription factors to the promoter site on DNA strands.
○ True ○ False	
18. (1.00 pts) In prokaryo	otes, ribosomes can begin translating a partial mRNA strand as it's still being transcribed from DNA.
O True O False	
19. (2.00 pts) Eukaryotic	promoters contain a box whereas prokaryotic promoters contain a box. (enter only one word in each blank, in the correct order)
20. (1.00 pts) In eukaryot	tes, a promoter alone has a relatively high affinity for RNA polymerase to bind.
○ True ○ False	
21. (1.00 pts) In prokaryo	otic promoters, two vital sequences are usually located at the and positions relative to the transcription start sequence.
(Mark ALL correct answers) A) -50	
□ B) -45	
□ C) -35	
□ D) -20	
□ E) -15	
☐ F) -10	
,	

O D) 9:7

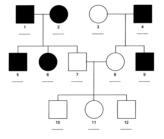
22. (1.00 pts) DNA bendability is important for the proper binding of transcription factors.
○ True ○ False
Use the following scenario for the next 3 questions (23-25):
Let's say that in goblins, skin color is sex-linked on the X chromosome, with green skin (X ^G) dominant to red skin (X ^g).
23. (1.00 pts) If an X ^G X ^g female is crossed with an X ^G Y male, what percentage of the female offspring will have green skin?
O A) 0%
O B) 25%
O C) 50%
O D) 75%
○ E) 100%
O F) Not possible to determine based on given info!
24. (1.00 pts) If an X ^G X ^g female is crossed with an X ^g Y male, what percentage of the male offspring will have green skin? The offspring here are considered the F1 generation for this sequence of questions.
O A) 0%
O B) 25%
O C) 50%
OD) 75%
○ E) 100%
O F) Not possible to determine based on given info!
25. (3.00 pts) If two opposite-gender F1 offspring are crossed with one another, the resulting F2 offspring could consist of?
(Mark ALL correct answers)
A) Males that are 100% red-skinned
□ B) Males that are 50% red-skinned
□ C) Males that are 0% red-skinned
□ D) Females that are 100% red-skinned
□ E) Females that are 50% red-skinned
F) Females that are 0% red-skinned
The state of the s
OC (O OO ata) A see has a dispersed with a dispersed with a dispersed of the second of
26. (2.00 pts) A man has been diagnosed with a disorder that's been genetically proven to be Y-linked. Which of his grandparents CAN be the source of this disorder?
(Mark ALL correct answers) A) Maternal Father
□ B) Paternal Father
C) Maternal Mother
D) Paternal Mother
U) I dioma modifici
Use the following scenario for the next 4 questions (27-30):
Let's say pumpkins have two alleles, one coding for yellow spots (Y ^Y) and one coding for pink spots (Y ^P).

27. (1.00 pts)

spotted? Round to the nearest integer & exclude the % sign in your answer.
28. (1.00 pts)
Continuing from the previous question, if a yellow-spotted pumpkin is crossed with a pink and yellow-spotted pumpkin, what percentage of the progeny class would be yellow-spotted? Round to the nearest integer & exclude the % sign in your answer.
29. (1.00 pts)
If a true-breeding yellow-spotted pumpkin was crossed with a true-breeding pink-spotted pumpkin in an incomplete dominant manner, what percentage of the progeny class would be orange-spotted? Round to the nearest integer & exclude the % sign in your answer.
30. (1.00 pts)
Continuing from the previous question, if an orange-spotted pumpkin is crossed with another orange-spotted pumpkin, what percentage of the progeny class would be yellow-spotted? Round to the nearest integer & exclude the % sign in your answer.
Has the fallentian accounts for the most 0 most in a (04.00).
Use the following scenario for the next 2 questions (31-32): Matt has type O blood and Victor has type A blood.
24 (2.00 sts). Which of the following are a solid liking for the blood to use of Mattle are such 2
31. (3.00 pts) Which of the following are possibilities for the blood types of Matt's parents?
(Mark ALL correct answers) A) Mother - A, Father - B
B) Mother - AB, Father - B
C) Mother - O, Father - AB D) Mother - A, Father - AB
D) Mother - A, Father - AB E) Mother - O, Father - B
F) Mother - A, Father - A
32. (1.00 pts) Victor marries a girl with type B blood. Theoretically, his children could have type AB blood.
○ True ○ False
33. (1.00 pts)
A sample of DNA found at a crime scene contains 26% adenine. What percent of the sample is cytosine? Round to the nearest integer & exclude the % sign in your answer.
34. (3.00 pts) Which of the following replication enzymes are correctly paired with their respective functions?
(Mark ALL correct answers) A) Topoisomerase - adds torsional strain on DNA during unwinding
B) Helicase - unzips double helix at replication fork
C) DNA Polymerase I - main replication enzyme that adds nucleotides to the new DNA strand
D) DNA Polymerase III - removes RNA primers

☐ E) DNA Polymerase	II - repairs errors in replication
☐ F) Ligase - creates r	new gaps between Okazaki fragments
35. (1.00 pts) Both DN	A transcription & translation have 3 steps - initiation, elongation, and termination.
oo. (noo pio)	Tradition paor a danistation for the companion, and communion.
○ True ○ False	
36. (1.00 pts) rRNA is	what carries the anticodon and amino acid to the ribosomal subunit during translation.
○ True ○ False	
37. (1.00 pts) The pres	sence of alpha-helices or beta-pleated sheets indicate a tertiary structure protein.
○ True ○ False	
38. (2.00 pts) Euchrom	natin DNA has expression and is compacted, whereas heterochromatin DNA has expression and is compacted.
O A) Low, tightly; high,	loosely
O B) High, tightly; low,	tightly
O C) High, loosely; low	r, loosely
O D) Low, loosely; high	n, tightly
○ E) High, loosely; low	r, tightly
O F) High, tightly; low,	loosely
B) In metaphase II, h C) Meiosis II takes s D) At the end of Meio E) In anaphase II, ho	mologous chromosomes still exist nomologous chromosomes no longer exist ignificantly longer to finish than Meiosis I osis II, 6 daughter cells are produced omologous chromosomes no longer exist ster chromatids are lined up at the center of the cell
40. (1.00 pts) The seco	ondary oocyte produced from meiosis I cannot pass metaphase II of meiosis until occurs.
(Mark ALL correct answers) A) A - Q arm B) B - P arm C) B - Q arm	f the following portions of the below diagram representing a chromosome are correctly identified? A B Two disterictubules Spindle microtubules R Two disterictubules Spindle microtubules
•	
D) C - Kinetochore	
□ E) D - Telomere	

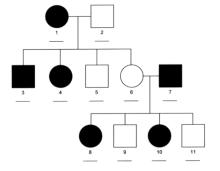
F) E - Kinetochore
42. (1.00 pts) When looking at a karyotype, Y chromosomes are shorter than X chromosomes.
○ True ○ False
43. (2.00 pts) Which of the following are chromosomal abnormalities?
(Mark ALL correct answers) A) Deletions
□ B) Duplications
□ C) Inversions □ D) Substitutions
□ E) Translocations
44. (3.00 pts) Which of the following are correctly matched with the chromosome on which their abnormality occurs?
(Mark ALL correct answers) A) Down syndrome - 21
□ B) Edward's syndrome - 13
C) Patau syndrome - 18
□ D) Cri du chat syndrome - 5 □ E) Wolf-Hirschhorn syndrome - 6
F) Jacobsen syndrome - 11
45. (1.00 pts) What pattern of inheritance is displayed by the below pedigree?
O A) Autosomal dominant
 A) Autosomal dominant B) Autosomal recessive
A) Autosomal dominant
 A) Autosomal dominant B) Autosomal recessive C) X-linked dominant
A) Autosomal dominant B) Autosomal recessive C) X-linked dominant D) X-linked recessive
 A) Autosomal dominant B) Autosomal recessive C) X-linked dominant D) X-linked recessive E) Y-linked
 A) Autosomal dominant B) Autosomal recessive C) X-linked dominant D) X-linked recessive E) Y-linked F) Mitochondrial
 A) Autosomal dominant B) Autosomal recessive C) X-linked dominant D) X-linked recessive E) Y-linked F) Mitochondrial



O A) Autosomal dominant	
O B) Autosomal recessive	
○ C) X-linked dominant	
O D) X-linked recessive	
○ E) Y-linked	
○ F) Mitochondrial	
48. (1.00 pts) Briefly explain how you came to your conclusion for the previous answer.	
49. (1.00 pts) What pattern of inheritance is displayed by the below pedigree?	
O A) Autosomal dominant	
O B) Autosomal recessive	
O C) X-linked dominant	
O D) X-linked recessive	
○ E) Y-linked	
O F) Mitochondrial	
50. (1.00 pts) Briefly explain how you came to your conclusion for the previous answer.	

51. (1.00 pts)

What pattern of inheritance is displayed by the below pedigree?



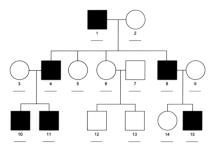
O A) Autosomal dom

- O B) Autosomal recessive
- O C) X-linked dominant
- O D) X-linked recessive
- O E) Y-linked
- O F) Mitochondrial

52. (1.00 pts) Briefly explain how you came to your conclusion for the previous answer.

53. (1.00 pts)

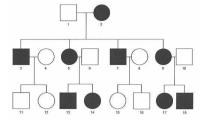
What pattern of inheritance is displayed by the below pedigree?



- O A) Autosomal dominant
- O B) Autosomal recessive
- O C) X-linked dominant
- O D) X-linked recessive
- O E) Y-linked
- O F) Mitochondrial

54. (1.00 pts)	Briefly explain how you came to your conclusion for the previous answer.	

55. (1.00 pts) What pattern of inheritance is displayed by the below pedigree?



○ A) Autosomal dominant
O B) Autosomal recessive
O C) X-linked dominant
O D) X-linked recessive
○ E) Y-linked
O F) Mitochondrial
56. (1.00 pts) Briefly explain how you came to your conclusion for the previous answer.
57. (1.00 pts) The genetic code is?
or. (1.00 pts) The genetic code is:
O A) Universal
O B) Degenerate
O C) Neither of the above
O D) Both of the above
58. (1.00 pts) Coding regions of DNA are called whereas noncoding regions of DNA are called (enter only ONE word in each blank, in the correct order)
59. (1.00 pts) A consists of a nitrogenous base and a 5-carbon sugar such as ribose.
60. (2.00 pts) Briefly describe when and how sex-specific imprinting occurs.
61. (1.00 pts) A neomorphic allele is one that has an increased level of protein expression.
○ True ○ False
62. (1.00 pts) Which of the following are TRUE regarding a frameshift mutation?
O A) A frameshift mutation can be a deletion
O B) A frameshift mutation can result in a longer protein
O C) A frameshift mutation can alter the chain of amino acids produced by a coding sequence

O D) A & C only
○ E) B & C only
○ F) A, B, & C
63. (1.00 pts) A mutation results in a stop codon where a normal amino acid should have been.
Use the following scenario for the next 4 questions (64-67):
Let's say in pekkas, black armor (B) is dominant to blue armor (b), horns (H) are dominant to tails (h), and speed (G) is dominant to stealth (g).
C4 (2.00 mts)
64. (2.00 pts) A true-breeding black-armored + horned + speedy pekka is crossed with a true-breeding blue-armored + tailed + stealthy pekka. Two resulting offspring (F1) are mated with one
another to produce an F2 progeny class that results in 8 different phenotypes. If there are 640 individuals in the F2 generation, how many would you expect to be black-armored +
tailed + stealthy?
O A) 640
○ в) 320
O C) 270
O D) 160
○ E) 90
O F) 30
65. (2.00 pts) Continuing from the previous question, how many individuals would you expect to have the genotype bbHhGg, bbHHGg, Bbhhgg, or BBhhGG?
O A) 640
○ B) 320
O C) 270
O D) 160
○ E) 90
O F) 30
CC (4.00 mts)
66. (4.00 pts) Now, from the F2 generation, let's say a blue-armored + horned + speedy pekka is crossed with a black-armored + horned + stealthy pekka. Considering all possibilities, what
percentage of the offspring (F3) will be black-armored + horned + stealthy pekkas?
(Mark ALL correct answers)
□ A) 18.75%
□ B) 25%
□ C) 32.5%
□ D) 37.5%
□ E) 43.75%
□ F) 50%
67. (3.00 pts) In order for the answer to the previous question to be 25%, which two of the following genotypes must be included in the cross between the two F2 individuals?
(Mark ALL correct answers)
□ A) bbHhGg
□ B) bbHHGG
□ C) bbHhGG
D) BbHhgg
□ E) BbHHgg
L) Domings

□ F) BBHhGg		
68. (1.00 pts) Ti	he genome size of both mitochondria and chloroplasts is relatively uniform across different species.	
○ True ○ Fal	lse	
69. (1.00 pts) In	base excision repair, DNA cleaves an altered nitrogenous base from the sugar of its nucleotide.	
70. (1.00 pts) Ba	ase excision repair is particularly important in the removal of uracil from DNA.	
○ True ○ Fal	lse	
71. (1.00 pts) In	nucleotide excision repair, an enzyme complex containing which of the following proteins patrols DNA for irrelgularities?	
O A) UvrA		
O B) UvrB		
O C) UvrC		
O D) A&B		
O E) A&C		
○ F) B&C		
72. (1.00 pts) C	ontinuing from the previous question, next, an enzyme complex containing which of the following proteins cuts the damaged DNA strand?	
O A) UvrA		
O B) UvrB		
O C) UvrC		
O D) A&B		
○ E) A&C		
○ F) B&C		
Use the following diagram for the next 2 questions (73-74):		
	node species A Clade species C species C species E Clade species F taxon	

branch

73. (1.00 pts) If species A and B form a monophyletic group, then species B and D form a group.		
74. (1.00 pts) If species A and B form a monophyletic group, then species B, D, and F form a group.		
Use the following diagram for the next 2 questions (75-76): Methanosarcina acetivorans Methanosarcina mazei Archaeoglobus fulgidus Thermoplasma volcanium Methanococcus jamaschi Methanochermbacter thermoautotrophicus Pyrococcus horikochii —Methanotrikochii —Methanotrikochii —Methanotrikochii —Methanotrikochii —Methanopyrus kandleri —Suffolobus solfataricus —Suffolobus solfataricus —Aeropyrum pernix —Pyrobaculum aerophilum —Pyrobaculum aerophilum —Pyrobaculum aerophilum —Euryarchaeota (92/36/98) Crenarchaeota (100/98/100) —Pyrobaculum aerophilum —Euryarchaeota (92/36/98) Eukarya (100/99/100)		
75. (1.00 pts) Pyrococcus abyssi is more closely related to Methanosarcina mazei than Pyrobaculum aerophilum is to Sulfolobus tokodaii.		
○ True ○ False		
76. (1.00 pts) Pyrococcus furiosus and Methanococcus jannaschii share a common ancestor.		
○ True ○ False		
77. (1.00 pts) During the gel electrophoresis portion of RFLP analysis, smaller DNA bands move faster through the gel than larger DNA bands.		
○ True ○ False		
78. (1.00 pts) Restriction Fragment Length Polymporphism (RFLP) analysis is more cost-effective than Polymerase Chain Reaction (PCR) testing.		
○ True ○ False		
79. (1.00 pts) In Sanger sequencing, each DNA fragment produced is distinguishable according to its terminal 3' base.		
○ True ○ False		
80. (1.00 pts) During Sanger sequencing, ddCTP is added to the template DNA at a higher concentration than dCTP.		
○ True ○ False		
81. (1.00 pts) The two priming oligonucleotides always dictate the nature of the final PCR product.		
○ True ○ False		

True False Congratulations, you've completed the 2021 UT Austin Regional Designer Genes C test! Best of luck in your other events, and I hope you enjoyed taking this test today! If you have any feedback about any of the exams at this tournament, please let us know through this form: https://tinyurl.com/utreg21feedback (https://tinyurl.com/utreg21feedback) - Shrayen Patel (UT '24)	oz. (1.00 pts)	ta) calliful be genotyped by examining if the product sizes on gels.
any feedback about any of the exams at this tournament, please let us know through this form: https://tinyurl.com/utreg21feedback (https://tinyurl.com/utreg21feedback)	○ True ○ False	
	any feedback about any of the exams at this tou	

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