Note: choose the correct answer: - (2 marks for each right answer) I-in the adjacent figure, which of the following joints I-in the adjacent figure, which of the following joints I-in the adjacent figure, which of the following joints I-in the adjacent figure shows care at a consective fissue shows cells are: - A- 2 and 3 I-in the adjacent figure shows care at a consective fissue shows cells are: - A- surrounded by a difformat type of intercellular substance. I-in the adjacent figure, which of the following is to intercellular substance. I-in the adjacent figure, which of the following is consective fissue. I-in the adjacent figure, which of the following is consective fissue. I-in the adjacent figure, which of the following is consective fissue. I-in the adjacent figure, which of the following is consective fissue. I-in the adjacent figure, which of the following is consective fissue. I-in the adjacent figure, which of the following is consective fissue. I-in the adjacent figure, which of the following is consective fissue. I-in the adjacent figure, which of the following is consective fissue. I-in the adjacent figure, which of the following is consective fissue. I-in the adjacent figure, which of the following is form and indicated by the letter - A-adjaws negatively charged proteins to more out the autoon fibre region of the actual consective fissue. I-in the adjacent figure system. I-in the following adjacent figure system. I-in the following adjacent figure system. I-in the following is that we entered the antworks in the mother's red blood celis. I-in the adjacent figur	Kurdistan Region Government- IraqIn the Name of AllahSubject: BIOLOGYFingerprintMinistry of Education-High Committee of General ExaminationsTime: 3.5 hoursFingerprintGeneral exams for preparatory stage (scientific)12th GradeFingerprintFor the academic year(2023-2024) Second SittingFingerprintFingerprint	 12-Which of the following about blood returning from the A- is carried by inferior vena cava only. C- is carried by both superior vena cava and inferior 12 Oile : ckin
 1-In the adjacent figure, which of the following joints 1- Description of the following joints 2- and 3 3- and 4 2- Conclude and fat tissues are examples of three connective tissues whose cells are: - A- and a different type of intercellular substance. C- only a different type of intercellular substance. C- and of the following about compared to be are correct. 3- All of the following about compared to be are correct. 4- Which of the following is found in the end of a parson's long bone, when the person has usually reached his three different type of co-receptor. 4- Hix lines a latticework struture. C- it contains a stolecytes. C- it contains a stolecytes. C- it contains are bound together by connective tissues to the plood-stream C- C- structure tissues are bound together by connective tissues to the blood-stream C- C- structure tissues. B- arranged in opposing pairs. C- Cardiovascular system: A- acad system in the adjacent figure represents a(an): C- adjacent system. D- wind to following boat muscle which do the following to increate the same of the advactive tissues to the blood-stream C- C- and the brain muscle is: B- arranged in opposing pairs. C- Cardiovascular system: A- acad system: D- wind the accurate of the condition erythrobialsciss felaits, an Rir pregnant mother of an Ri⁺ child and bage to the scaladed to the structure system. D- wind the structure is scalected in the flowing is incorrect. C- and/oux sould to gether the structure system. D- wind the scaladed system: D- wind the scaladed system: D- wind the scaladed system: D- wind the scaladed system. D- wind the structure system. D- wind the scaladed system of the matter scale the structure system. D- wind the scaladed system the struc	Note: choose the correct answer: - (2 marks for each right answer)	A- mucus : skin B- sweat : n
 permit(s) limited movement? <i>A</i>: 2 and 3 <i>B</i>: only 1 <i>C</i>: only 3 <i>A</i>: and 4 <i>A</i>: summade by a different type of intercelular substance. <i>B</i>: only 1 <i>A</i>: summade by a different type of intercelular substance. <i>B</i>: only 1 <i>A</i>: summade by a different type of intercelular substance. <i>B</i>: only 1 <i>A</i>: summade by a different type of intercelular substance. <i>B</i>: only 1 <i>A</i>: summade by a different type of intercelular substance. <i>B</i>: only 1 <i>B</i>: only 1 <i>A</i>: summade by a different type of intercelular substance. <i>B</i>: only 1 <i>B</i>: only 2 <i>B</i>: only 2	1-In the adjacent figure, which of the following joints	C-lysozyme : skin D- waxes :
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B-2-Sine. Hood and fat lissues are examples of three connective tissues whose cells are: - A-surrounded by a different type of intercellular substance. Surrounded by the same type of intercellular substance. Surrounded by the same type of intercellular substance. C- surrounded by the same type of intercellular substance. D- both (A and B) are correct. S-All of the following is considered as a component the discovery structure. D- it is composed of cylinders. C- it contains osteocrytes. D- it is composed of cylinders. C- transmission and insertion points. D- arranged in opposing pairs. C- parent the control of the following is considered as a component to the neuron. C- smorth and insertion points. D- arranged in opposing pairs. C- smorth and insertion points. D- arranged in opposing pairs. C- smorth and insertion points. D- arranged in opposing pairs. C- active surrounded by a connective tissue. D- All of them are correct. S-The cardiar guard of take cills are bound together by connective tissue. D- All of them are correct. S-rone function of it is to return fluids that have calceted in the tissues to the blood-stream A- arctery B- rone function of it to cructary system. D- Alvi of them are correct. S-The boom round the adjacent figure represents a(an): A-artery B- rone function of it to cructary system. D- Alvi of them are correct. S-rone that cocurrence of the condition exptroblals objects in the diagenent figure represents a(an): A-artery B- winh C- be thereafting rate and depth? A-artery B- winh cocles that have entered the mother's blood plasma. C-arter breading rate and depth? A-artery B- winh cocles that have entered the mother's blood plasma. C-arter breading rate and depth? A-artery B- winh the following about hemoglobin is correct? A-artery B- winh of the following about hemoglobin is correct? A-artery B- winh of th		A -the formation of memory cells for the first time.
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C surrounded by the same type of intercellular substance. J- both (A and B) are correct. J- All of the following about compact bone are correct <u>EXCEPT</u> : A if has a latticework structure. D- it is composed of cylinders. D- it is composed of cylinders. D- both (A + C) are correct. S-The cardiac muscle: D- hall of them are correct. S-The cardiac muscle is covered by a connective tissue. D- All of them are correct. S-Which of the following about muscle structure is correct? D- All of them are correct. S-Which of the following about muscle fiscer server the source of the condition experiment is sue about the adjacent figure which of the following about muscle fiscer server the societies are bound together by connective tissue. D- All of them are correct. S-Cardiovascular system: A each skeletal muscle condition experiments is ford as more through it. S-The bod vessel shown in the adjacent figure represents a(an): A-artery D- lymph vessel S-To provent the condition erythroblastasis foldis, an Rir pregnant mother of an Rir ⁺ child B- all mubodies present in the mother's blood stream from the folter. A - any Rir ⁺ cells that have entered the feultos. B- ary Rir ⁺ cells that have entered the feultos. B- ary Rir ⁺ cells that have entered the feultos. B- ary Rir ⁺ cells that have entered the feultos. B- ary Rir ⁺ cells that have entered the feultos. B- ary Rir ⁺ cells that have entered the feultos. B- ary Rir ⁺ cells that have entered the feultos. B- ary Rir ⁺ cells that have entered the feultos. B- ary Rir ⁺ cells that have entered the feultos. B- ary Rir ⁺ cells that have entered the feultos. B- ary Rir ⁺ cells that have entered the feultos. B- ary Rir ⁺ cells that have entered the feultos. B- ary Rir ⁺ cells that have entered the feultos. B- ary Rir ⁺ cells that have entered the feultos. B- ary Rir ⁺ cells that have entered the feultos is protein and four irron atoms. B- ary Rir ⁺ cells that have entered the feultos represent and the mother's blood stream from the	B- embedded in large amounts of intercellular substance.	D- Dolli (A and B) are correct 16 Which of the following is considered as a compose
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 A. HIV kills both cells. <	3- All of the following about compact bone are correct <u>EXCEPT</u> : -	17-The similarity between HIV entry into macrophage
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A-yellow bolle marker B- callingle clears C-springly bolle D- boll (A + C) are correct. A- has origin and insertion points. B- arranged in opposing pairs. A-allows sodium ions to move out of i. B- wink of the following about muscle structure is correct? A-aclows negatively charged proteins to move out of i. B- agroup of fascicles are bound together by connective tissue. D- All of them are correct. D- both (B and C) are correct. C- cardiovascular system: D- All of them are correct. D- both (B and C) are correct. C- cardiovascular system: D- All of the mare correct. D- both (B and C) are correct. A-clarce clear and blood vessels, and lymph nodes. D- All of the brain and spinal cord. D- not part B- refr B- one function of it is to return fluids that have collected in the tissues to the blood-stream C. is a part of the condition erythroblastosis fetalls, an Rtr pregnant mother of an Rt ⁺ child care beform and cerebelium are: - A- characterized by having a highly folded surface. B- any Rth cells that have entered the duber? D- any Rtr cells that have entered the fulls's blood stream from the falus. D- lymph vessel D- any Rtr cells that have entered the fulls's blood stream from the mother. D- lymph vessel D- any Rtr cells that have entered the fulls's blood stream from the following simulates the diaphragm to increases the reachinger spresent on the mother's red blood cells.	his(her) full height?	the region of the neuron agon indicated by the letter
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 C - pumps blood through body parts. D - All of them are correct. G-Which of the following about muscle structure is correct? A - acditor are surrounded by a connective tissue. D - All of them are correct. C - smooth muscle fibers are surrounded by connective tissue. D - All of them are correct. C - ardiovascular system. A - is composed of, heart, blood vessels, and lymph nodes. B - one function of it is to return fluids that have collected in the tissues to the blood-stream C - sardiory system. D - how liquids move through it. The blood vessel shown in the adjacent figure represents a(an): - A-ardery B - vein C - capillary D - lymph vessel 9 - To prevent the occurrence of the condition erythroblastosis fetalis, an Rhr pregnant mother of an Rh⁺ child that have entered the mother's blood stream from the fetus. B - any Rhr cells that have entered the mother's blood stream from the mother. 10 - Which of the following rate and depth? A - harain stem B - thalamus C - diencephalon D - hypothalamus 11 - Which of the following rate and depth? A - transport only oxygen gas in the process of respiration. B - each hemoglobin molecule contains a protein and four iron atoms. C - denochalon is a protein and four iron atoms. C - denochalon in a four iron atoms. C - denochalon iron a meres of the following a in the process of respiration. B - each hemoglobin molecule contains a protein and four iron atoms. C - denochalon in divide gases in the process of respiration. B - each hemoglobin molecule contains a protein and four iron atoms. C - denochalon in the process of respiration. B - each hemoglobin molecule contains a protein and four iron atoms. C - denochalon is a protein and four iron atoms. C - denochalon is a p	A- has origin and insertion points. B- arranged in opposing pairs.	B- allows sodium ions to move into the neuron.
 6-Which of the following about muscle structure is correct? A- each skeletal muscle cell is covered by a connective tissue. B- a group of fascicles are bound together by connective tissue. D- All of them are correct. C- cardiovascular system: - A- is composed of, heart, blood vessels, and lymph nodes. B- one function of it is to return fluids that have collected in the tissues to the blood-stream C- is a part of the torial and spinal cord. A-artery B- vein C- capillary D- the blood vessel shown in the adjacent figure represents a(an): - A-artery B- vein C- capillary D- the vesel 9-To prevent the occurrence of the condition erythroblastosis fetalis, an Rh⁺ pregnant mother of an Rh⁺ child can be given antibodies(anti-Rh antibodies) to destroy:- A- any Rh⁺ cells that have entered the mother's blood stream from the fetus. B- all antibodies present in the mother's blood plasma. C-all antibodies present in the mother's blood stream from the mother. D-Which of the following is correct about dopamine? A- is a depressant that increases the activity of the cells of the following stimulates the diaphragm to increase the breathing rate and depth? A- transport only oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport only oxygen gas in the process of the spiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport only oxygen gas in the process of the spiration. B- chlemoglobin molecule contains a protein and four iron atoms. C-transport only oxygen gas in the process of the spiration. B- chlemoglobin molecule contains as protein and four iron atoms. C-transport only oxygen gas in the process of the spiration. B- calcitonin B-parathyroid	C- pumps blood through body parts. D- All of them are correct.	C -membrane potential reaches about +40 millivolts.
 Be a group of fascicles are bound together by connective tissue. Be a group of fascicles are bound together by connective tissue. C- and the brain and spinal cord. P- All of them are correct. P- ard of the brain and spinal cord. P- are orget. P- are orget.<!--</td--><td>6-Which of the following about muscle structure is correct?</td><td>D- both (B and C) are correct.</td>	6-Which of the following about muscle structure is correct?	D- both (B and C) are correct.
 C smooth muscle fibers are surrounded by connective tissue. D - All of them are correct. T-Cardiovascular system: - A-is composed of, heart, blood vessels, and lymph nodes. B- one function of it is to return fluids that have collected in the tissues to the blood-stream C is a part of the circulatory system. D-two liquids move through it. 8- The blood vessel shown in the adjacent figure represents a(an): - A-artery B- verin C-capillary D-fymph vessel 9- To prevent the occurrence of the condition erythroblastosis fetalis ,an Rh⁺ pregnant mother of an Rh⁺ child can be given antibodies(anti-Rh antibodies) to destroy:- A - any Rh⁺ cells that have entered the mother's blood stream from the fetus. B- any Rh⁺ cells that have entered the mother's blood stream from the fetus. B- any Rh⁺ cells that have entered the fus's blood stream from the fetus. B- any Rh⁺ cells that have entered the fus's blood stream from the mother. 10-When the level of carbon dioxide in the blood rises, which of the following stimulates the diaphragm to increase the breathing rate and depth? A-brain stem B- thalamus C-diencephalon D- hypothalamus 1-Which of the following about hemoglobin is correct? A-transport only oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxyme and carbon dioxide gases in the process of respiration. B- calcitonin B- part of the following hormones stimulates the trans. C-transport both oxyme and carbon dioxide gases in the process of respiration. B- calcitonin B- part of the following hormones stimulates the trans. C-transport both oxyme and carbon dioxide gases in the process of respiration. B- calcitonin B- parathyroid hormone	B- a group of fascicles are bound together by connective tissue to form a skeletal muscle.	19 -Schwann cells produce myelin around the axon of
 7-Cardiovascular system: - A-is composed of, heart, blood vessels, and lymph nodes. B- one function of it is to return fluids that have collected in the tissues to the blood-stream C- is a part of the circulatory system. D-two liquids move through it. 8- The blood vessel shown in the adjacent figure represents a(an): - A-artery B- vein C-capillary D-lymph vessel 9- To prevent the occurrence of the condition erythroblastosis fetalis, an Rh⁺ pregnant mother of an Rh⁺ child can be given antibodies(anti-Rh antibodies) to destroy:- A- any Rh⁺ cells that have entered the mother's blood stream from the fetus. B- and I antibodies present in the mother's blood plasma. C-all antigens present on the mother's blood plasma. C-all antigens present on the mother's blood plasma. C-all antigens present on the mother. 10-When the level of carbon dioxide in the blood rises, which of the following stimulates the diaphragm to increase the breathing rate and depth? A-brain stem B- thalamus C-diencephalon D- hypothalamus 1-Which of the following about hemoglobin is correct? A- transport only oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport only oxygen and the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. 	C- smooth muscle fibers are surrounded by connective tissue. D- All of them are correct.	A- part of the brain. B-part of the brain and animal and a B-part of the
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 C- is a part of the circulatory system. D-two liquids move through it. 8- The blood vessel shown in the adjacent figure represents a(an): - A-artery B- vein C-capillary D- lymph vessel 9- To prevent the occurrence of the condition erythroblastosis fetalis, an Rh⁺ pregnant mother of an Rh⁺ child can be given antibodies (anti-Rh antibodies) to destroy:- A- any Rh⁺ cells that have entered the mother's blood stream from the fetus. B-all antibodies present in the mother's blood stream from the fetus. B-all antibodies present in the mother's blood plasma. C-all antigens present on the mother. 10-When the level of carbon dioxide in the blood rises, which of the following stimulates the diaphragm to increase the breathing rate and depth? A-brain stem B- thalamus C-diencephalon D- hypothalamus C-diencephalon C- is a stimulate the clowedie gases in the process of respiration.	A- is composed of, nearl, blood vessels, and lymph hodes. B- one function of it is to return fluids that have collected in the tissues to the blood-stream	A- it travels in two different (opposite) directions in a s
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 B- vein C-capillary D- lymph vessel 9- To prevent the occurrence of the condition erythroblastosis fetalis an Rh⁺ pregnant mother of an Rh⁺ child can be given antibodies(anti-Rh antibodies) to destroy:- A- any Rh⁺ cells that have entered the mother's blood stream from the fetus. B-all antibodies present in the mother's blood plasma. C-all antigens present on the mother's red blood cells. D- any Rh⁻ cells that have entered the fetus's blood stream from the mother. D- any Rh⁻ cells that have entered the fetus's blood stream from the mother. D- Myent the level of carbon dioxide in the blood rises, which of the following stimulates the diaphragm to increase the breathing rate and depth? A-brain stem B- thalamus C-diencephalon D- hypothalamus 11-Which of the following about hemoglobin is correct? A- transport only oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen and carbon dioxide gases in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen and carbon dioxide gases in the process of respiration. 	A-artery	21-Both cerebrum and cerebellum are: -
C-capillary D- lymph vessel 9-To prevent the occurrence of the condition erythroblastosis fetalis ,an Rh ⁺ pregnant mother of an Rh ⁺ child can be given antibodies(anti-Rh antibodies) to destroy:- A- any Rh ⁺ cells that have entered the mother's blood stream from the fetus. B-all antibodies present in the mother's blood plasma. C-all antigens present on the mother's red blood cells. D- any Rh ⁻ cells that have entered the fetus's blood stream from the mother. 10-When the level of carbon dioxide in the blood rises, which of the following stimulates the diaphragm to increase the breathing rate and depth? A-brain stem B- thalamus C-diencephalon D- hypothalamus 11-Which of the following about hemoglobin is correct? A- transport only oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen gas in the process of resp	B- vein	A- characterized by having a highly folded surface.
 D- lymph vessel 9- To prevent the occurrence of the condition erythroblastosis fetalis , an Rh⁻ pregnant mother of an Rh⁺ child can be given antibodies(anti-Rh antibodies) to destroy:- A- any Rh⁺ cells that have entered the mother's blood stream from the fetus. B- all antibodies present in the mother's blood plasma. C-all antigens present on the mother's red blood cells. D- any Rh⁻ cells that have entered the fetus's blood stream from the mother. 10- When the level of carbon dioxide in the blood rises, which of the following stimulates the diaphragm to increase the breathing rate and depth? A-brain stem B- thalamus C-diencephalon D- hypothalamus 11-Which of the following about hemoglobin is correct? A- transport only oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport only oxygen and carbon dioxide nases in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport only oxygen and carbon dioxide nases in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport only oxygen and carbon dioxide nases in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport only oxygen and carbon dioxide nases in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport only oxygen and carbon dioxide nases in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport only oxygen and carbon dioxide nases in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport only oxygen and carbon dioxide nases in the process of respiration. B- each hemoglobi	C-capillary	C- composed of two hemispheres, each hemisphere
 9-10 prevent the occurrence of the condition erythroblastosis fetalis, an Rh⁺ pregnant mother of an Rh⁺ child can be given antibodies (anti-Rh antibodies) to destroy:- A- any Rh⁺ cells that have entered the mother's blood stream from the fetus. B-all antibodies present in the mother's blood plasma. C-all antigens present on the mother's red blood cells. D- any Rh⁻ cells that have entered the fetus's blood stream from the mother. 10-When the level of carbon dioxide in the blood rises, which of the following stimulates the diaphragm to increase the breathing rate and depth? A-brain stem B- thalamus C-diencephalon D- hypothalamus 11-Which of the following about hemoglobin is correct? A- transport only oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport only oxygen and carbon dioxide gases in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport only oxygen and carbon dioxide gases in the process of respiration. 	D- lymph vessel	22 -Which of the following is not a part of the inner ea
A- any Rh ⁺ cells that have entered the mother's blood stream from the fetus. B-all antibodies present in the mother's blood plasma. C-all antigens present on the mother's red blood cells. D- any Rh ⁻ cells that have entered the fetus's blood stream from the mother. 10-When the level of carbon dioxide in the blood rises, which of the following stimulates the diaphragm to increase the breathing rate and depth? A-brain stem B- thalamus C-diencephalon D- hypothalamus 11-Which of the following about hemoglobin is correct? A- transport only oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen and carbon dioxide gases in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen and carbon dioxide gases in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen and carbon dioxide gases in the process of respiration.	9- To prevent the occurrence of the condition erythroblastosis fetalis ,an Rh ⁻ pregnant mother of an Rh ⁻ child	A-Eustachian tube B-cochlea C-semici
 B-all antibodies present in the mother's blood plasma. C-all antigens present on the mother's red blood cells. D- any Rh⁻ cells that have entered the fetus's blood stream from the mother. 10-When the level of carbon dioxide in the blood rises, which of the following stimulates the diaphragm to increase the breathing rate and depth? A-brain stem B- thalamus C-diencephalon D- hypothalamus 11-Which of the following about hemoglobin is correct? A- transport only oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen and carbon dioxide gases in the process of respiration. 	A - any Rh ⁺ cells that have entered the mother's blood stream from the fetus	23-Which of the following translate light energy into ele
 D- any Rh⁻ cells that have entered the fetus's blood stream from the mother. 10-When the level of carbon dioxide in the blood rises, which of the following stimulates the diaphragm to increase the breathing rate and depth? A-brain stem B- thalamus C-diencephalon D- hypothalamus 11-Which of the following about hemoglobin is correct? A- transport only oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen and carbon dioxide gases in the process of respiration. D- both (B + C) are correct 	B -all antibodies present in the mother's blood plasma. C -all antigens present on the mother's red blood cells.	A- rods B-cones C-hair cells D- k
 10-When the level of carbon dioxide in the blood rises, which of the following stimulates the diaphragm to increase the breathing rate and depth? A-brain stem B- thalamus C-diencephalon D- hypothalamus 11-Which of the following about hemoglobin is correct? A- transport only oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen and carbon dioxide gases in the process of respiration. D- hypothalamus D- hypothalamus B- acch hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen and carbon dioxide gases in the process of respiration. 	D- any Rh ⁻ cells that have entered the fetus's blood stream from the mother.	A- is a depressant that increases the activity of the co
Increase the breathing rate and depth? A-brain stem B- thalamus C-diencephalon D- hypothalamus 11-Which of the following about hemoglobin is correct? A- transport only oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C- is a stimulant that decreases the activity of the cer 25-The hormone secretion of which of the following en A- thymus gland B-pancreas C-pineal (26-Which of the following hormones stimulates the transport both oxygen and carbon dioxide gases in the process of respiration. C-transport both oxygen and carbon dioxide gases in the process of respiration D-both (B + C) are correct	10 -When the level of carbon dioxide in the blood rises, which of the following stimulates the diaphragm to	B- is a neurotransmitter that is released by the nervo
11-Which of the following about hemoglobin is correct? A- transport only oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen and carbon dioxide gases in the process of respiration.	Increase the breathing rate and depth? A -brain stem	C- is a stimulant that decreases the activity of the cei
A- transport only oxygen gas in the process of respiration. B- each hemoglobin molecule contains a protein and four iron atoms. C-transport both oxygen and carbon dioxide gases in the process of respiration. D-both (B + C) are correct	11 -Which of the following about hemoglobin is correct?	A- thymus gland B-pancreas C-pineal d
B- each hemoglobin molecule contains a protein and tour iron atoms. C- transport both oxygen and carbon dioxide gases in the process of respiration D- both (B + C) are correct A- calcitonin B- parathyroid hormone C-	A- transport only oxygen gas in the process of respiration.	26 -Which of the following hormones stimulates the tran
	B - each hemoglobin molecule contains a protein and four iron atoms. C -transport both oxygen and carbon dioxide gases in the process of respiration. D -both $(B + C)$ are correct	A- calcitonin B-parathyroid hormone C-



circular canals **D**-organ of Corti lectrical signals that can be interpreted by the brain? both (A and B) are correct.

central nervous system. ous system. entral nervous system. **D**-All of them are correct. ndocrine glands is controlled by the pituitary gland? gland **D**- thyroid gland nsfer of calcium ions from the bones to the blood? -melatonin **D**-both (A and B) are correct.

	 27-Thyroid hormones diffu A- are made of a single in C-are fat soluble. 28-The action of steroid hormone B- hormone-receptor com C- cyclic AMP acts as a single in system? A-urethra 30-In the male reproductive A- vas deferens and bulb C- seminal vesicles and u 31-Usually, in which part of develops? A-ovar 32-In the follicular phase of A- estrogen, negative fee C- progesterone, negative 33-During of which of the f A-early of the first trimest 34-What changes occur to A- the newborns baby's life C- the excretory system bill S5-Which of the following in F2 generation? A-all individuals of the P2 C- 25% from the individual D- 25% from the individual a6-A genotype that product A-homozygous for a char D-heterozygous for a char D-heterozygous	se through the cell membran nodified amino acid. prmones, differs from the acti- ses the:- A- hormone binds polex is produced in the cytop second messenger. D- hor is a part of the male reproduce a B- cervix C e system, the epididymis is lo ourethral glands. B urinary bladder. D of the female reproductive system of the female reproductive system of the ovarian cycle, the eleval edback mechanism following pregnancy periods of the baby after the baby is boo ungs expand B- the cal become fully functional is correct about Mendel's exp generation were homozygous generation were homozygous generation were homozygous generation were homozygous generation were homozygous for the F1 generation were als of the F1 generation were als of the F1 generation were als of the F1 generation were for a trait and an individu - A-all the same phenoty C-of two different phenoty of two different phenoty for a trait and an individu - A-all the same phenoty for a trait and an individu - A-all th	e of their target cells because B -are a type of steroid hormo D -are modified fatty acids. on of amino acid-based horm s to the protein receptor. olasm of the target cell. mone does not require targe tive system but <u>not a part</u> of -prostate gland D- bo ocated between: - - seminiferous tubules in test - vas deferens and urinary bl stem does implantation occur C-fallopian tube tedlevel acts as a B - estrogen, positive fe D- progesterone, positi does lanugo disappear? rdiopulmonary and renal circ D- All of them are correct. be homozygous. homozygous. homozygous. heterozygous for both character inant for the other. other al recessive for the same tra- pe. B -all the same tra pe. B -all the same tra pe	e they: - ones. nones in that, in the t cell receptors. the female reproductive th (A + C) are correct is and vas deferens. adder. the embryo grows and D- vagina D- vagina D-third trimester ulation are completed ion, F1 generation and rs. hit are crossed all genotype erent genotypes. otype. pes of two pure parents. he same. D- (pod color)	 42-In the process of DNA replication: - A- no error occurs because the proce B- errors occur and most of them are C-errors occur only in the original stra 33-From his four experiments Griffith hereditary factor inside the cells of A- heat killed mouse cells. C- live virulent (S) bacterial cells. 44-Watson and Crick constructed a m of two chains that wrap around each A-DNA B-RNA 45-In the structure of a DNA molecule A-purine with purine B-pyrimidine 46-In most organisms there are A-20 codons ,64 different amino acid C- 10 codons ,32 different amino acid C- 10 codons ,32 different amino acid C- 10 codons ,32 different amino acid B- only a part of the two DNA strand. 47-The process of RNA transcription of RNA transcription: A- the two DNA strands are completed B- only a part of the two DNA strand. D- after the process is completed ,the B- only a part of the two DNA strand. D- after the process is completed ,the B- only a part of the two DNA strand. D- after the process is completed ,the A-1 B-2 C-3 D-4 49-a cross between two pea plants pro- 1 short stem purple flowers: 1 short st phenotype of the two crossed plants: A-tall stem purple flowers × tall stem C- tall stem purple flowers × tall stem C- tall stem purple flowers × tall stem C- are sequences of three nucleotide.
	 A - 80 41-The results of some expected trait wrinkled seeds is 2,0 	B -200 periments on the pea plants s 001 times, which of the follow	<i>C</i> - 240 showed that 6,022 times is training represent(s) the probabili	D - 320 ait round seeds and the ty of the dominant trait	
	as a percentage ratio? A -0%	B -25%	C - 50%	D -75%	
- 14					

heat killed mouse cells. live virulent (S) bacterial cells. **D-** heat killed nonvirúlent (R) bacterial cells. Vatson and Crick constructed a model for the structure ofwhich suggested that it(they) composed wo chains that wrap around each other. DNA **B-**RNA **C-**DNA with RNA **D**-mRNA with tRNA n the structure of a DNA molecule, hydrogen bonds connect: purine with purine **B**-pyrimidine with pyrimidine **C**-purine and pyrimidine **D**-All of them are correct n most organisms there are which specify 20 codons, 64 different amino acids. **B-** 64 codons ,20 different amino acids. 10 codons ,32 different amino acids. **D-** 32 codons ,10 different amino acids. The process of RNA transcription differs from the process of DNA replication in that in the process of A transcription:the two DNA strands are completely separated from each other only a part of the two DNA strands is separated. **C**-both DNA strands serves as a template. after the process is completed, the separated DNA strands do not wrap around. Which of the sequences in the adjacent table produces longest polypeptide chain when translated? 2 cross between two pea plants produced this ratio (1 tall stem purple flowers: 1 tall stem white flowers: hort stem purple flowers: 1 short stem white flowers) which of the following could represent the enotype of the two crossed plants?

tall stem purple flowers × tall stem white flowers. **B-**tall stem white flowers × short stem purple flowers. tall stem purple flowers \times short stem white flowers. **D**- both (B + C) are correct.

Both start codon and stop codons: -

are sequences of three nucleotides in DNA.

no error occurs because the process occurs with great accuracy.

errors occur and most of them are repaired but some errors cannot be repaired and cause a mutation. rrors occur only in the original strands. **D-** errors occur but all errors are repaired by DNA polymerase. From his four experiments Griffith concluded that the heat killed virulent (S) bacterial cells released a reditary factor inside the cells ofwhich led to the transfer of the ability to cause disease. **B-** live nonvirulent (R) bacterial cells.

No.	b. mRNA sequence that is translated		
1	AUGUCCGCAUAAGGAAAU		
2	AUGUUGACCUGAGCAGGCUCA		
3	AUGCUCUAGAAGUGCUUCUUGACCGCA		
4	AUGGGUCUAUAUUGAACG		

B- participate in the translation process. **D**- do not specify amino acids.