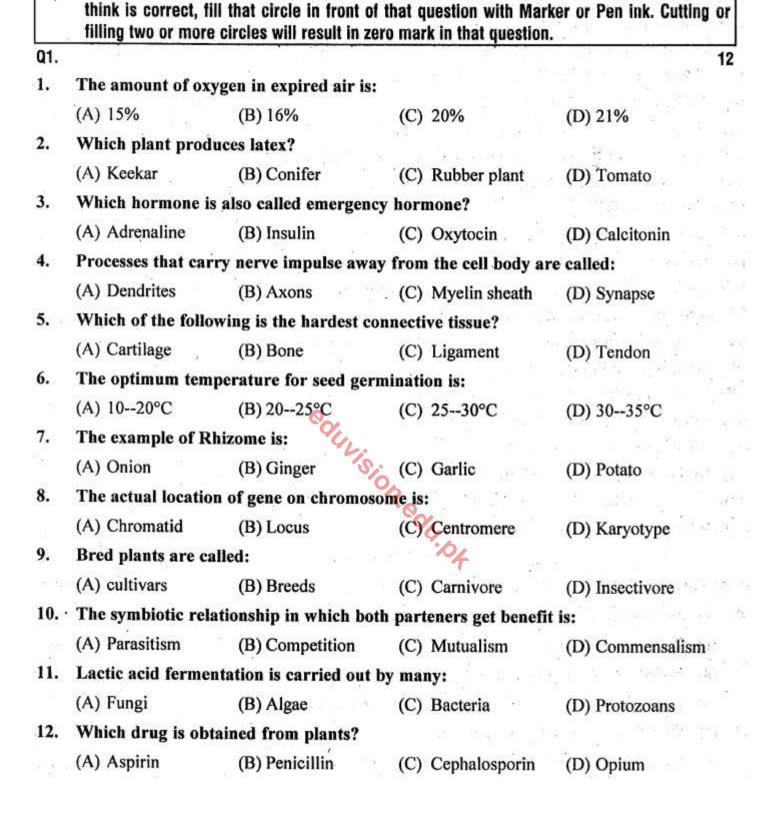
filling two or more circles will result in zero mark in that question. Q1. 12 1. The amount of sperms in semen is: (A) 10% (B) 50% (C) 80% (D) 90% 2. Cytosine always pairs with: (A) Thymine (B) Adenine (C) Guanine (D) Uracil An example of discontinuous variations is: 3, (A) Height (B) Blood groups (C) Weight (D) Intelligence All carnivore animals are: 4. (A) Parasite (B) Host (C) Predator (D) Pathogen Pain killer chemical produced by brain is: 5. (A) Insulin (B) Interferon (C) Thymosin (D) Beta endorphin Which drug is obtained from bacteria? 6. (A) Aspirin (B) Paracetamol (C) Terramycine (D) Streptomycine A narrow opening present at the floor of Pharynx is called: 7. (A) Larynx (B) Nostril (C) Glottis (D) Trachea The normal core temperature of human body is: 8. (A) 35°C (B) 37°C (C) 39°C (D) 40°C All of the following are hormones except: 9. (A) Glucagon (B) Insulin (C) Thyroxin (D) Pepsinogen Which hormone develops the male secondary sex characters? 10. (A) Testosterone (B) Estrogen (C) Progesterone (D) Insulin The hard outer layer of a bone is called: 11. (A) Osteocyte (B) Compact bone (C) Cartilage (D) Spongy bone 12. An example of corm is: (A) Ginger (B) Onion (C) Potato (D) Garlic

NUTE: Four possible answers A, B, C and D to each question are given. The choice which you

think is correct, fill that circle in front of that question with Marker or Pen ink. Cutting or

Roll No.(in Figures):	(in Words):		
Maximum Marks: 48 SUBJECTIVE	TYPE	Time Allowed	:1.45 Hours
(PART -	I)		
22. Write short answers to any FIVE (5) questions:			$(5 \times 2 = 10)$
i) What is difference between larynx and trachea?	Ĉt.		
ii) How smoking effects on circulatory system?			
iii) Define Homeostasis and give an example.	Til		
iv) What is difference between latex and mucilage?	3	- A	
(v) What is meant by lithotripsy?			1000
(vi) What is meant by ganglion?	340		
(vii) Define Reflex Action and give an example.	- 54 - C		
(viii) What is difference between sensory nerves and n	notor nerves?	35	8 8
Q3. Write short answers to any FIVE (5) questions:			$(5 \times 2 = 10)$
(i) What is fibrous cartilage?		14 K	
(ii) Differentiate between hinge and ball and socket	joint with exa	mples.	- 1
(iii) Define fragmentation and give an example.		***	
(iv) Define endospores and give an example,		3 n n e e	*
(v) What is meant by alternation of generation?	*		
(vi) Define translation and transcripation.			F 8 8
(vii) Why did Mendel select pea for his experiment?	?		9
(viii) What is meant by incomplete dominance? Give	an example al	so.	- 6
Q4. Write short answers to any FIVE (5) questions:	101		$(5 \times 2 = 10)$
(i) What is Biological nitrogen fixation?	au		
(ii) What are carnivorous plants? Give two example	s.	G	
(iii) Describe the role of Biotechnology in the field of		t	
(iv) How does lactic acid fermentation occur by bact			\$11
(v) What is the use of saccharomyces in fermentation			1 6
(vi) Differentiate between pharmaceutical and addic		a e	
(vii) Write down the function of sedatives and give a		0.	
(viii) Write down the effects of marijuana on body.	A 200		
(PART -	II)	a di Sa	
Note: Attempt any TWO questions.	50000 -1 00		(2×9=18)
선생님 (18. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	0.00		5
Q5. (a) Describe osmoregulatory function of kidney.			- 4
(b) Write down the disorders of human eye.			
Q6. (a) Explain Antagonism in Muscle action selecting			5
(b) Give an introduction of Pakistan National Aids of		1.	4
Q7. (a) Write notes on global warming and deforestation	n.	ge signere i se n	
(b) Which basic steps does a genetic Engineer ado	pt during the m	anipulation of gene	98?



NOTE: Four possible answers A, B, C and D to each question are given. The choice which you

Rawalpindi Board 2018 (Second Group) (in Words): -----Roll No.(in Figures): SUBJECTIVE TYPE Maximum Marks: 48 Time Allowed :1.45 Hours (PART - I) Q2. Write short answers to any FIVE (5) questions: $(5 \times 2 = 10)$ Define cellular respiration. (i) (ii) Why does blood become thick due to smoking? Give reason. (iii) Define homeostasis. (iv) Write two symptoms of kidney failure. (v) What is meant by tubular secretion? (vi) Write the names of the components of co-ordination process. (vii) What is meant by myelin Sheath? (viii) Where is the cerebrospinal fluid found? Q3. Write short answers to any FIVE (5) questions: $(5 \times 2 = 10)$ Differetiate between bone and cartilage. (ii) Write the names of three causes of osteoporosis. (iii) What is the difference between sexual and Asexual reproduction? (iv) Define the technique of tissue culture. (v) What is meant by pollination? (vi) What is meant by true breeding? (vii) Define gene and allele. (viii) Differentiate between natural and artificial selection Q4. Write short answers to any FIVE (5) questions: $(5 \times 2 = 10)$ Write the names and define the components of an ecosystem. (i) (ii) What is smog formation? (iii) Write four advantages of using fermenters. (iv) What is plasmid? How does it work? (v) What is Beta endrophin? (vi) Define Narrow Spectrum antibiotics. (vii) Name few drugs obtained from animals. (viii) What is meant by Social Stigma? (PART - II) Note: Attempt any TWO questions. $(2 \times 9 = 18)$ Q5. (a) Describe the role of skin and lungs in homeostasis. (b) Describe the structure of human Ear in detail. Q6. (a) Explain the components of human skeleton. (b) Explain the two methods of Natural vegetative propagation. Q7. (a) Write down the effects of Air Pollution.

(b) Write down the objectives of Genetic Engineering.