MP Board 12th Biology 2024 Answer Key (Unofficial)

- 1. (i) The product released in the blood by the malaria mosquito which causes chills and fever -
 - (a) Homatin
 - (b) Ruffner's point
 - (c) Haemozoin
 - (d) Haemotoxin

Answer: (a) Homatin

(ii) DNA in agarose gel electrophoresis. On what basis does the separation of

molecules occur?

- (a) only charge
- (b) Only measurement (size)
- (c) Volume only
- (d) charge and shape

Answer: Only measurement (size)

- (iii) Mycorrhiza is example
- (a) Parasitism
- (b) Cooperativeness
- (c) Commensalism
- (d) Decomposer

Answer: Commensalism

(iv) How many chromosomes are there in the embryo (enveloped sperm)?

- (a) n (unmultiplied)
- (c) 3n (triplet)
- (b) 2n (double)
- (d) 4n (quadrupled)

Answer: (c) 3n (triple)

(v) What is the residual sporophyte in the seed called?

- (a) The nucleus
- (c) Division
- (b) Inner armor

(d) Periembryonic nutrition Answer: Periembryonic nutrition

(vi) In sickle cell anaemia, glutamic acid is replaced by valine. Which one of the following triplets is the code for valine?
(a) GGG
(b) AAG
(c) GAA
(4) GUG
Answer: GUG

2 Fill in the blanks with the correct answer:

(i) Proinsulin contains	which is not found in mature insulin.
Answer: C-peptide	
(ii)	is caused by a mutation in a gene related to the adenosine
deaminase enzyme.	
Answer: SCID	
iii) The green plant in ine	e ecosystem are called
Answer: Producer	
(iv) The process of releas	se of ovum from a mature follicle is called
Answer: Ovulation.	
(v) DNA fingerprinting in Sequence called Answer: Repetitive DNA	nvolves identifying differences in some specific regions in
(vi) Lactic acid bacteria o Answer: Curd	convert milk into
3. Write True/False:	
(i) Clarias gariepinus for catfishes in our rivers.Answer: True	aquaculture purposes is posing a threat to the indigenous
(ii) Humans are oviparou Answer: False	S.

(iii) Syphilis is a sexually transmitted disease. Answer: True

(iv) Lichens cannot be used as industrial pollution indicators. Answer: False

(v) Genes that cause cancer are called oncogenes. Answer: True

(vi) Each interferon has its own specialty Answer: True

A	В
(i) PBR322	(a) detrimental interaction
(ii) Corona radiata	(b) z. y and a
(iii) Structural genes	(c) bone marrow
(iv) T-Lymphocytes	(d) vectors
(v) Competition	(e) ovum
	(f) RBCs

(i) PBR322 -(d) vectors

(ii) Corona radiata – (e) ovum

(iii) Structural genes-(b) z. y and a

(iv) T-Lymphocytes -(c) bone marrow

(v) Competition-(a) detrimental interaction.

5. Write answer in the one sentence:

(i) How do cytokine barriers provide innate immunity in humans? Answer: Interferons

(ii) Write down the name of the bacterium which produces 'Bt' toxin. Answer: Bacillus thuringiensis (Bt)

(iii) What is called 'lungs of the earth'?Answer: Amazon Tropical rainforests

(iv) Write the full form of ZIFT.Answer: Zygote intrafallopian transfer (ZIFT)

(v) What substances did Miller take in his experiments? Answer: methane, water, hydrogen, and ammonia

