

MCQ TEST SERIES**S12-BZ-C4-PRINCIPLES OF INHERITANCE AND VARIATION****4.3 GENETIC CONTROL OF RH FACTOR**

1. Rh factor was discovered by:
 - A. Mendel and Morgan
 - B. Watson and Crick
 - C. Karl Landsteiner and Alexander Wiener
 - D. Bernstein and Beadle
2. Rh factor is located on the surface of:
 - A. Platelets
 - B. Leukocytes
 - C. Erythrocytes (RBCs)
 - D. Plasma proteins
3. Rh factor is primarily associated with the presence of which antigen?
 - A. A antigen
 - B. B antigen
 - C. D antigen
 - D. E antigen
4. An individual is Rh positive if:
 - A. Only A antigen is present
 - B. D antigen is absent
 - C. D antigen is present
 - D. Both A and B antigens are absent
5. The Rh factor is inherited as a:
 - A. Recessive trait
 - B. Dominant trait
 - C. Sex-linked trait
 - D. Codominant trait
6. According to the Fisher and Race hypothesis, Rh factor is controlled by:
 - A. A single pair of alleles
 - B. Three pairs of closely linked alleles
 - C. Codominant alleles
 - D. Recessive mutations
7. In Fisher and Race hypothesis, which combination leads to Rh-negative phenotype?
 - A. CDE/cDE
 - B. CdE/cDe
 - C. Cde/cde
 - D. cde/cde
8. In Wiener hypothesis, the allele r represents:
 - A. Rh-positive
 - B. Inactive D antigen
 - C. Rh-negative
 - D. Rh-neutral
9. According to Wiener, how many alleles exist at the Rh locus?
 - A. 2
 - B. 3
 - C. 5
 - D. 8
10. Which of the following genotypes will result in Rh-positive phenotype under the Wiener system?
 - A. r/r
 - B. R1/r
 - C. ry/ry
 - D. r1/r1
11. Rh incompatibility can lead to a condition in the newborn called:
 - A. Leukopenia
 - B. Anaemia major
 - C. Erythroblastosis foetalis
 - D. Immunodeficiency
12. The first exposure of an Rh-negative mother to Rh-positive blood during childbirth:
 - A. Causes immediate haemolysis in the foetus
 - B. Leads to antibody production without harm to the first child
 - C. is harmless for future pregnancies
 - D. Prevents antibody formation
13. The anti-D antibodies involved in Rh incompatibility are of which type?
 - A. IgA
 - B. IgE
 - C. IgG
 - D. IgM
14. To prevent erythroblastosis foetalis, anti-D antibodies are administered:
 - A. To the foetus only
 - B. Only after the child's birth
 - C. At 28th and 34th weeks and after delivery
 - D. During every menstrual cycle
15. Passive immunization with anti-D antibodies prevents:
 - A. Synthesis of new Rh antigens
 - B. Destruction of maternal RBCs
 - C. Sensitization of the Rh-negative mother
 - D. Development of placenta

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ANSWER KEY

1. C
2. C
3. C
4. C
5. B
6. B
7. D
8. C
9. D
10. B
11. C
12. B
13. C
14. C
15. C

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