

# BIOLOGY

M.MARKS: 25

**I. Tick the most appropriate answer in the following:**

- (i) Which of the following blood vessels is the thinnest of all?  
a) Lymph vessels                      b) Arteries  
c) Capillaries                            d) Aorta
- (ii) Bile juice contains:  
a) Amylase                                b) Trypsin  
c) Lipase                                   d) None of the above
- (iii) Nastic movements are:  
a) in one direction                      b) in response to chemicals  
c) non- directional                      d) irreversible
- (iv) Which of the following produces male gametes in a flower?  
a) Sepals                                  b) Petals  
c) Carpels                                 d) Stamens
- (v) Mendel proposed that every character is controlled by:  
a) one allele                                b) two alleles  
c) one chromosome                      d) two chromosome
- (vi) Ozone depletion has resulted in:  
a) warming of earth                      b) less UV radiations on earth  
c) decrease in temperature            d) more UV radiations on earth
- (vii) Amrita Devi Bishnoi National award is rendered for  
a) water conservation                  b) wildlife conservation  
c) soil conservation                     d) none of the above
- (viii) Ganga Action Plan was started in:  
a) 1975                                      b) 1985  
c) 1995                                      d) 2005
- (ix) Khadin system of water harvesting is found in:  
a) Rajasthan                                b) Himachal Pradesh  
c) Haryana                                 d) Gujarat
- (x) The final product of glycolysis is  
a) Maleic acid                              b) Glucose  
c) Acetyl CoA                             d) Pyruvic acid

(1X10=10)

**II. Fill in the blanks:**

- (i) .....animal contains both testes and ovaries.  
(ii) Largest gland in human body is .....  
(iii) Chemotropism is the response of plant roots towards .....  
(iv) .....are 'biodiversity hotspots'.  
(v) .....proposed the 'Theory of Natural Selection'.

(2X5=10)

**III. Answer the following:**

- (i) Name a plant where buds develop on the leaves to produce new plants.
- (ii) Name the structure formed after fertilization of ovum by sperm.
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(iii) Expand UNEP.

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(iv) Name the organism that represents the first trophic level in any food chain.

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(v) Name two protein digesting enzymes

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(1X5=5)