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Time : 00:16:00 Hrs

**Answer All The Question**

- 1) "The bird of paradise flower" refers to  
(a) *Musa paradisiaca* (b) *Sterlitzia reginae* (c) *Ravenala madagascariensis* (d) *Heliconia sp*
- 2) Lateral roots originate from \_\_\_\_\_  
(a) Endodermis (b) Epidermis (c) Pericycle (d) Cortex
- 3) Haploid set of chromosome in *Ophioglossum* is \_\_\_\_\_  
(a) 631 (b) 24 (c) 40 (d) 5
- 4) Powdered seeds of \_\_\_\_\_ are used instead of coffee:  
(a) *Panax ginseng* (b) *Ilex paraguariensis* (c) *Papaver somniferum* (d) *Cola nitida*
- 5) The enzyme DNA ligase was discovered in the year \_\_\_\_\_  
(a) 1942 (b) 1966 (c) 1950 (d) 1970
- 6) Genomes of two incompatible plants A and B can be hybridised through:  
(a) Plant tissue culture (b) Protoplasmic fusion (c) Gene cloning (d) Bio remediation
- 7) The sugar present in ATP has:  
(a) 5 carbon atom (b) 6 carbon atom (c) 4 carbon atom (d) 7 carbon atom
- 8) The stipules are modified into a pair of spines in \_\_\_\_\_  
(a) *Euphorbia tirucalli* (b) *Euphorbia Pulcherrima* (c) *Euphorbia antiquorum* (d) *Euphorbia splendens*
- 9) Assertion (A): The term 'oxytocin' refers to rapid birth.  
Reason (R): It shortens the gestation period.  
(a) (A) is correct; (R) is correct. (b) (A) is wrong; (R) is correct. (c) (A) is correct; (R) also correct, but (R) does not explain (A).  
(d) (A) is correct; (R) is wrong
- 10) The normal blood glucose level during fasting is:  
(a) 80-200 mg/dl (b) 100-150 mg/dl (c) 70-110 mg/dl (d) 200-250 mg/dl
- 11) Who discovered a system for Antiseptic surgery?  
(a) Louis Paster (b) Robert Koch (c) Joseph Lister (d) Darwin
- 12) Identify true and false statements from the following.  
(i) B lymphocytes can process an antigen.  
(ii) T lymphocytes get immune competence at thymus gland.  
(iii) Cortex zone of lymph node acts a thymus dependent area.  
(iv) Immune serum is having high antigen level due to infection.  
(a) (i)-True (ii)-False (iii)-True (iv)-False (b) (i)-False (ii)-True (iii)-False (iv)-True (c) (i)-False (ii)-True (iii)-True (iv)-True  
(d) (i)-True (ii)-True (iii)-False (iv)-False
- 13) Who discovered the double stranded helix DNA model?  
(a) H.G.Khorana (b) Mendel (c) T.H.Morgan (d) Watson and Crick
- 14) A person, who is suffering from Govt, may also suffer from?  
(a) Poly urea (b) Poly dipsia (c) Kidney stone (d) Gall stone
- 15) The fatal disease caused by an autosomal dominant gene in human is:  
(a) Thalassemia (b) Huntington's chorea (c) Albinism (d) Severe combined immuno deficiency
- 16) Write the correct pair of plasma components:

(A) Hormones	(i) Building blocks
(B) CO <sub>2</sub>	(ii) Blood clotting

(C) Amino acid	(iii) Body function
(D) Fibrinogen	(iv) Metabolic wastes

(a)

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
(i)	(iv)	(iii)	(ii)

(b)

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
(iii)	(iv)	(i)	(ii)

(c)

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
(iv)	(i)	(iii)	(ii)

(d)

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>
(ii)	(iv)	(i)	(iii)

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