

**Time: 20 Minutes****OBJECTIVE ..... Code: 8468 Marks: 17**

**Note:** You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank.

1. The most common chronic arthritis which is a degenerative joint disease, also caused by  
(A) hormonal defects (B) genetic defects (C) nutritional defects (D) neural defects
2. Chromosomes appear inside the nucleus at the time of  
(A) cell elongation (B) cell maturation (C) cell differentiation (D) cell division
3. Genomic fragments can be separated according to their lengths during  
(A) PCR (B) gene cloning (C) gel electrophoresis (D) chemical cleavage
4. Who defined "Niche" as species occupation?  
(A) Grinnell (B) Charles Elton (C) Cuvier (D) Haeckel
5. Establishing new forests where no forests existed before  
(A) desertification (B) deforestation (C) reforestation (D) afforestation
6. Fruit ripening is often accompanied by a burst of respiratory activity called as  
(A) photoperiod (B) fertilization (C) climacteric (D) reproduction
7. Haemophilia 'C'  
(A) affects both sexes equally (B) affects men more than women  
(C) affects women more than men (D) is non-allelic sex linked recessive
8. The change in frequency of alleles at a locus that occurs by chance is  
(A) gene pool (B) mutations (C) genetic drift (D) migration
9. Synapsis takes place in  
(A) leptotene (B) zygotene (C) pachytene (D) diplotene
10. The beginning of bone formation, starts after injury  
(A) 3 - 4 weeks (B) 2 - 3 months (C) 8 weeks (D) 8 - 12 weeks
11. The nature of shivering thermogenesis adaptation is  
(A) structural (B) physiological (C) psychological (D) behavioral
12. Northern coniferous forests are called as  
(A) alpine (B) boreal (C) taiga (D) prairies
13. Multicellular alga, Acetabularia is attached to the ground by  
(A) roots (B) hold fast (C) rhizoid (D) base
14. Increased plasma level of urea is an indication of  
(A) renal failure (B) urinary tract infection  
(C) kidney stones (D) sexually transmitted disease
15. If a person has 44 autosomes and xyy, he will suffer from  
(A) klinefelter's syndrome (B) turner's syndrome  
(C) down's syndrome (D) mongolism
16. The most prominent structure found in 18 hrs chick embryo is  
(A) primitive streak (B) notochord (C) hensen's node (D) neurocoel
17. In mitochondria, the codon UGA signals for  
(A) stop (B) start (C) tryptophan (D) methionine