Examination October 2020

B.Sc. S.Y (Sem-III)

2176 Zoology Paper-VIII Genetics- II

Time: One Hour   **Max. Marks: 25**

Instruction-:

- Sovle any 25 Question from Q1 to Q30

1 Inbreeding between closely related organism........

(A)Increases variation　　(B)Reduces variation　　(C)Increases sterility　　(D)All of the above

2 Which of the following is sex linked disease....

(A)Baldness　　(B)Colour blindness　　(C)Night blindness　　(D)Far sightedness

3 XO human sex anomaly is resultant of........

(A)Klinefelter's syndrome　　(B)Down's syndrome　　(C)Turner's syndrome　　(D)None of the above

4 The term 'gene' refers to.......

(A)Sequence of amino acids in protein　(B)A linkage group　　(C)A part of RNA　　(D)A portion of DNA

5 Name the bacteria which were used by Griffith for his experiments..

(A)E.coli　　(B)Diplococcus pneumoniae　　(C)Lactobacillus　　(D)Salmonella typhi

6 Number of autosome in human sperm is........

(A)11　　(B)22　　(C)44　　(D)45

7 Statistical study of human population is known as......

(A)Ecology　　(B)Physiology　　(C)Biogeography　　(D)Demography

8 Anticodon on t RNA pairs with ....

(A)t RNA　　(B)mRNA　　(C)Other t RNA molecules　　(D)DNA

9 Phenylketonuria is a human disease, a person affected by the disease suffers From........

(A)Kidney failure　　(B)Liver failure　　(C)Mental idiocy　　(D)Sexual infertility

10 Natality refers to......

(A)Birth rate　　(B)Death rate　　(C)Population rate　　(D)Density

11 Patient with klinefelter's syndrome has .... chromosomes

(A)45　　(B)48　　(C)47　　(D)42

12 Haemophilia is an example of ....linked inheritance

(A)Y　　(B)X　　(C)O　　(D)XY

13 In man albinism is due to the non synthesis of melanin in the absence of

(A)Luciferin　　(B)Lysine　　(C)Melanase　　(D)Tyrosinase

14 The sum total of genes in a population is known as......

(A)Gene bank　　(B)Gene linkage　　(C)Gene pool　　(D)Genome

15 The process of mRNA synthesis in DNA template is known as......

(A)Transcription　　(B)Translation　　(C)Transduction　　(D)Transformation

16 The exact point where nucleotides are being added to growing daughter Strand during DNA replication are called.....

(A)The oirigin　　(B)The double helix　　(C)The template　　(D)The replication fork

17 Which of the following is a stop codon.....

(A)AUG　　(B)GUG　　(C)UAA　　(D)GGU

18 In Vitro replication of DNA is called........

(A)Polymerisation reaction　　(B)Polymerase chain reaction　　(C)DNA fragmentation　　(D)Southern blotting

19 What is the process of introducing vector into the target bacterial cell known as.....

(A)Transposition　　(B)Transduction　　(C)Transformation　　(D)Transfection

20 Population size increases by.......

(A)Natality　　(B)Immigration　　(C)Emigration　　(D)Both a & b

21 Non sex chromosome are......

(A)Heterosome　　(B)Autosome　　(C)Allosomes　　(D)Cytosomes

22 First licensed drug produced by genetic engineering is......

(A)Interferon　　(B)Insulin　　(C)Penicillin　　(D)Somatotropin

23 Red blindness is called.......

(A)Night blindness　　(B)Protonopia　　(C)Deuteronopia　　(D)Albinism

24 Which group of enzymes are popularly called as ' Molecular Stichers'.....

(A)Restriction endonuclease　　(B)Ligases　　(C)RNA polymerase　　(D)DNA polymerase

25 Mongolian syndrome is caused by .....

(A)Extra chromosome　　(B)Extra autosome　　(C)Extra chromosome in 21st autosomal pair　　(D)Gene mutation

26 Which of the following is a genetic disease.....

(A)Blindness   (B)Phenylketonuria   (C)Cataract   (D)Leprosy

27 A man who carries a sex linked gene on his Y chromosome will transmit this gene to.....

(A)Half of his sons   (B)Half of his daughters   (C)All his sons   (D)All his daughters

28 Genetic engineering means....

(A)Manipulation of genes   (B)Manipulation of cell content   (C)Manipulation of Macula adherans   (D)Formation of test tube baby

29 The genetic code was discovered by.........

(A)G. Gamow   (B)H.G. Khurana   (C)Watson and Crick   (D)M. Nirenberg

30 An abnormal gene is replaced by normal gene, it is called......

(A)Gene therapy   (B)Cloning   (C)Mutation   (D)None of the above.