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KRP MATRIC HIGHER SECONDARY SCHOOL, SANKARI WEST HALF YEARLY EXAM - 2022

12th Standard

Boogy Date: 30 Dec 22
eg No
PART - II. BIO ZOOLOGY
Exam Time: 01:30:00 Hrs
Total Marks : 35
CHOOSE THE BEST ANSWER 8 x 1 = 8
1) The male homologue of the female clitoris is
(a) Scrotum (b) Penis (c) Urethra (d) Testis
2) Which of the following is correct regarding HIV, hepatitis B, gonorrhoea and trichomonias s?
(a) Gonorrhoea is a STD whereas others are not. (b) Trichomoniasis is a viral dise se w ereas others are bacterial.
(c) HIV is a pathogen whereas others are diseases. (d) Hepatitis B is eradicated completely whereas others are not.
3) Three children of a family have blood groups A, AB and B. What could be the ge types of their parents?
(a) $I^A I^B$ and $I^O I^O$ (b) $I^A I^O$ and $I^B I^O$ (c) $I^B I^B$ and $I^A I^A$ (d) $I^A I^A$ and $I^O I^O$
4) Females with Turners syndrome have
(a) Small uterus (b) Rudimentary ovaries (c) Under eveloped breasts (d) All of these
5) E. coli cell grown on ¹⁵ N medium are tra sfer ed to ⁴ N medium and a owed to grow for two generations. DNA ext acted from these cells is ultracentrifuged n es um chloride density gradi nt. W at density distribution of DNA w uld you expect in this experiment?
(a) One high and one low density band (b) One intermed ate de sity band. (c) One intermediate density band.
(d) One low and one intermediate density band
6) In w ic mode of reproduction variations are seen
(a) Asexual (b) Parthenogenesis (c) Sexual (d) Both a and b
7) The Athlete's foot disease in human is cause by
(a) Bacteria (b) Fungi (c) Virus (d) P ot a
8) The wings of birds and butterflie s an exa ple of
(a) Adaptive radiation (b) converge t evolution (c) divergent evolution (d) variation WRITE ANY 4 QUESTIONS $4 \times 2 = 8$
9) Differentiate foeticide and infanticide
10) How is juve ile phase different from reproductive phase?
11) Wha is inhibin? State its functions
12) Mention the symptoms of Down's syndrome.
13) Mention the main objections to Darwinism.
14) HGP is the windows for treatment of vario s genetic disorders. Justify the statement. WRITE ANY 3 QUESTIONS. Q.NO 18 IS COMPULSORY 3 x 3 = 9
15)

15) Amniocentesis, the fo tal sex determination test, is banned in our country, Is it necessary? Comment.

16) A low level of expression of lac operon occurs at all the windows for treatment of various genetic disorders. Justify the statement

- 17) What are the applications of Karyotyping?
- 18) List the causative agent, mode of transmission and symptoms for Diphtheria and Typhoid.
- 19) Differentia e between divergent evolution and convergent evolution with one ex mple for each. WRITE ALL THE QUESTIONS

 $2 \times 5 = 10$

²⁰⁾ a) Explain the role PCR clinical diagnosis.

(OR)

- b) Describe the steps involved in DNA finger printing.
- a) (a) Briefly explate events of fertilization and implantation in an adult human female
 - (b) Comment on the role of placenta as an endocrine gland.

(OR)

b) List any five viral diseases, their casuative agents, site of infection, mode of transmission and sympto s
