T FIRST MID TERM TEST - JULY 2019 STANDARD - XII Thir uneheli District. BIOLOGY MARKS:36 TIME: 1.30 hrs MARKS:18 **BIO - BOTANY** Part - A I. Choose the most suitable answer from the given four alternatives and write the option code and the corresponding answer Choose the best answer. Answer all the questions $3 \times 1 = 3$ 1. Identify the correctly matched pair a) Sporopollnin Exine of Pollen grain Nutritive tissue for developing microspore b) Tapetum Nutritive tissue for developing embryo c) Nucellus d) Obturator Directs the pollen tube into micropyle 2. Which one of the following is an example of Polygenic inheritance? a) Flower colour in Mirablisjalapa b) Production of male honey bee c) Pod shape in garden Pea d) Skin Colour in Humans 3. Match List I with List II List List II A. A pair of chromosomes extra with diploid - i) Monosomy B. One Chromosome extra to the diploid - ii) Tetrasomy C. One Chromosomes loses from diploid - iii) Trisomy D. Two individual chromosomes lose from diploid - iv) Double Monosomy a) A - i, B - iii, C - ii, D - iv b) A - ii, B - iii, C - iv, D - i c) A-ii, B-iii, C-i, D-iv d) A - iii, B - ii, C - i, D - iv Section - II II. Answer any Two of the following not exceeding 30 words. $2 \times 2 = 4$ 4. A detached leaf of Bryophyllym produces new plants? How? 5. What is Pleiotrophy? 6. What is SharbatiSonora? Section - III III. Answer any Two of the following not exceeding 45 words. $2 \times 3 = 6$ 7. List the difference between Linkage and Crossing over 8. Draw a flow chart to show different types of gene interactions. 9. Differentiate dichogamy and herkogamy Section - IV IV. Answer all the following not exceeding 75 words. $1 \times 5 = 5$ 10. With a suitable diagram explain the structure of an Ovule

What is Incomplete Dominance? Explain with example.

(Or)

BIO - ZOOLOGY

MARKS:18

| Part - A | | | |
|---|--|-----------------------------------|------------------|
| ١. | Choose the correct answer:- | | $3 \times 1 = 3$ |
| 1. | In some metazoan animals a special type of transverse fission called | | |
| | | | |
| | a) Strobilation | b) Budding | |
| | c) Fragmentation | d) Gemmules | |
| 2. | Acrosome is small cap like pointed structure formed from | | |
| | a) mitochondria | b) Golgibodies | |
| | c) cytoplasm | d) Nucleus | |
| 3. | Find out the incorrect statement in relation to contraception | | |
| | a) Inhibition of Spermatogenesis | | |
| | b) Inhibition of Ovulation | * | |
| c) Changes in cervical mucus impairing its ability to allow passage and | | | |
| | transport of sperms | | |
| | d) Alteration of Uterine Endometrius | n to make it Unsuitable for impla | ntation |
| | Commence of the Commence of th | | |
| | Answer any Two:- | | $2 \times 2 = 4$ |
| | Explain male heterogamety? | | |
| 5 | Expand the following | | |
| | a. ZIFT b. ICSI | • • | |
| . 6 | . What is inhibin? state its function? | | |
| | | | |
| II | | 60 | $2 \times 3 = 6$ |
| | 7. Give a Schematic representation of | or Spermatogenesis | -40 |
| | B. Write a note on syphilis? | | |
| | 9. Application of karyotyping? | | |
| - 1 | V. Answer any One of the followin | ~ | 1 |
| | Explain the barrier methods of Cor | • | $1 \times 5 = 5$ |
| | | | |
| (Or) Explain the Criss - cross pattern of inheritance in marriage between normal | | | |
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