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[66/A14]

SEAT No. \_\_\_\_\_

SARDAR PATEL UNIVERSITY

B.Sc. OCTOBER-2018 [Zoology] Fifth Semester

CELL BIOLOGY

US 05 CZOO 03

TIME: 10.00-1.00 PM

DATE: 26/10/2018 Friday

MARKS: 70

Q-1 MULTIPLE CHOICE QUESTIONS:

[10]

- |   |                    |                      |                      |                 |
|---|--------------------|----------------------|----------------------|-----------------|
| 1. plasma membrane does not contain               | a, lipid           | b, extrinsic protein | c, intrinsic protein | d, cellulose    |
| 2. Picric acid is used to fix.                    | a, protein         | b, lipids            | c, nucleoprotein     | d, all          |
| 3. Congo red is                                   | a, basic stain     | b, acidic stain      | c, neutral stain     | d, none         |
| 4. function of endoplasmic reticulum is           | a, transportations | b, ATP production    | c, protein synthesis | d, none         |
| 5. if centromere found at center in chromosome is | a, telocentric     | b, acrocentric       | c, sub metacentric   | d, metacentric  |
| 6. Euploidy is the variation of chromosomes in    | a, n               | b, n-1               | c, n+1               | d, n+2          |
| 7. microtubule is a part of                       | a, ribosome        | b, nucleus           | c, golgi body        | d, centriole    |
| 8. eukaryotic ribosomes are known as              | a, 50s             | b, 60s               | c, 70s               | d, 80s          |
| 9. cytoskeletal formation is due to               | a, microfilaments  | b, peroxisomes       | c, glyoxysome        | d, all          |
| 10. 9+2 type of structure found in                | a, centriole       | b, flagella          | c, ribosome          | d, microtubules |

Q-2 ANSWER IN SHORT

[ANY TEN]

[20]

1. write about hook's compound microscope
2. write about basic stain
3. write about magnification of microscope
4. write about protein of plasma membrane
5. state vesicle structure of endoplasmic reticulum
6. what is passive permeability
7. draw a structure of metacentric chromosome
8. draw a labeled diagram of nucleolus
9. write about inversion in chromosomal variations
10. draw a structure of basalbody
11. write about nucleolus
12. write functions of peroxisomes

(1)

(PTO)

- Q-3 a, Describe Radio Immuno assay [05]  
b, Describe HPLC [05]
- OR
- Q-3 a, Scanning electron microscope and transmission electron microscope [05]  
b, Explain methods of cell fractionation [05]
- Q-4 a, Describe polymorphism of lysosome [05]  
b, Explain Singer -Nicholson structure of plasma membrane [05]
- OR
- Q-4 a, Describe structure of mitochondria [05]  
b, Explain functions of endoplasmic reticulum [05]
- Q-5 Describe giant chromosomes [10]
- OR
- Q-5 Describe Euploidy and Aneuploidy in chromosomes [10]
- Q-6 Describe structure of Ribosomes and its functions [10]
- OR
- Q-6 Explain ultra structure of centrioles and basal bodies [10]

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