

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION MAY 2022
(Second Semester)

Branch – ZOOLOGY

EXPERIMENTAL EMBRYOLOGY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. Cells containing a single nucleus are called as
(a) Mononucleated (b) Dinucleated
(c) Single nucleated (d) Multinucleated
2. Diploid chromosome number is found in normal body cell, whereas haploid is found in
(a) Germ cells (b) Brain cells
(c) Meristematic cells (d) Sensory cells
3. Agglutination reaction is more sensitive than precipitation for the detection of
(a) Antigens (b) Antibodies
(c) Antigen-antibody reaction (d) Complement
4. Human erythrocytes is
(a) Nucleated (b) Non-nucleated
(c) Dinucleated (d) Granulocytes
5. The method of asexual reproduction that can be called as a mode of regeneration is
(a) Fragmentation (b) Budding
(c) Sporulation (d) Binary fission

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a Write a note on cleavages of egg.
OR
b Briefly the role does gene play in human development.
- 7 a Write an account on organizer in amphibian embryo.
OR
b Write a detailed note on competence.
- 8 a Give the structure of antigen.
OR
b Give an account on advantage of embryo transfer.
- 9 a Describe the erythroblastosis foetalis.
OR
b Write a detailed note on birth control.
- 10 a Give the account on types of regeneration.
OR
b Write a note on basic concept of teratology.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a Write an essay on development of egg.
OR
b Write a brief account on role of gene in development.
- 12 a Write a detailed account on structure and properties of organizer.
OR
b Explain the differentiation and its types.
- 13 a Narrate the mechanism of antigen and antibody reaction.
OR
b Write short notes on tissue transplantation.
- 14 a Describe the cytoplasmic interactions.
OR
b Write a note on cryopreservation of embryo.
- 15 a Write a detailed account on regeneration in planaria.
OR
b Explain the abnormalities of physiological development

Z-Z-Z

END