

B.Sc.S.Y. (With Credits)-Regular-Semester 2012 Sem III
B.Sc 2332 - Zoology Paper-II (Developmental Biology)

P. Pages : 1

Time : Three Hours



GUG/S/18/3351

Max. Marks : 50

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- Notes : 1. All questions are compulsory carrying equal marks.
2. Draw well labelled diagram wherever necessary.

1. Write an essay on Mechanism of Fertilization. **10**
OR
a) Allantois. **5**
b) Yolk Sac. **5**
2. Write an essay on types of Placenta based on histology. **10**
OR
a) Test-tube baby. **5**
b) Sources of stem cells. **5**
3. Attempt the following. **10**
a) Arrhenotoky.
b) Formation of mesoderm in chick.
c) Interstitial Implantation.
d) Advantages of semen bank.
OR
e) Physio-chemical nature of Yolk.
f) Primitive streak.
g) Eccentric implantation.
h) Stem cell line.
4. Attempt the following. **10**
a) Holoblastic cleavage.
b) Epiboly.
c) Implantation mechanism.
d) IVF Techniques.
OR
e) Meroblastic cleavage.
f) Emboly.
g) Structure of sperm.
h) Oral contraceptives.
5. Write four or five lines on following **any ten**. **10**
i) Isolecithal egg. ii) Blastocyst.
iii) Stereoblastula. iv) Yolk plug.
v) Epiblast. vi) Chalazae.
vii) Trophoblast. viii) Nurse cell,
ix) Endothelium. x) Embryo culture.
xi) Multiple Birth. xii) Copper-T.
