

**M.D. (Kaumarbhritya – Bala Roga) : SUMMER - 2019**  
**SUBJECT: PAPER – I: BIJA, GARBHA EVAM BALAVIKS VIGYANIYA**  
**(Human Genetics, Embryology and Growth & Development)**

Day: Monday  
Date: 17/06/2019

**S-2019-4217**

Time: 10.00 AM TO 01.00 PM  
Max. Marks: 100

**N.B.:**

- 1) Figures to the right indicate **FULL** marks.
- 2) Draw neat labeled diagrams **WHEREVER** necessary.

Long Answer Questions: (LAQ)  $3 \times 20 = 60$  marks (**Any THREE out of FOUR**)

- Q.1** Explain in detail Ayurveda and modern concept Masanumasika vridhi and vikasa of embryo and fetus. Add a note on Masanumasika pathya. **(20)**
- Q.2** Explain in detail Apra (placenta), apra nirmana (formation of placenta), apra karya (function of placenta) and Apra vikara (Abnormalities of placenta) and its effects on fetus. **(20)**
- Q.3** Explain in detail about Congenital heart disease, diagnosis and their management. **(20)**
- Q.4** Explain in detail about methods to get good progeny with relevant scientific updates. Add a note on Garbha samskara and its relevance in current era. **(20)**

Short Answer Questions: (SAQ)  $2 \times 10 = 20$  marks (**Any TWO out of THREE**)

- Q.5** Neural tube defects and their management. **(10)**
- Q.6** Explain in detail about Jataharini affecting in fetus and its clinical significance. **(10)**
- Q.7** Explain recombinant DNA and its clinical features. **(10)**

Write short notes on any **FOUR** of the following:

- Q.8** Discuss on prenatal markers of Down syndrome **(05)**
- Q.9** Explain Turner syndrome and its management **(05)**
- Q.10** Structure of ovum **(05)**
- Q.11** Enumerate shad bhava and their derivatives **(05)**
- Q.12** Chorionic villous sampling **(05)**

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