| Quest | |
|-------|--|
| a) | Identify the structures A-D |
| A | |
| В | |
| Б | |
| C | |
| D | |
| b) | Indicate true (T) of false (F) |
| - / | i) The heart starts to beat as early as the third week |
| | ii) Sinoatrial node is the first to develop in the conducting system |
| | iii) Head fold results in pericardium becoming dorsal to the heart tube |
| | iv) Transposition of the great arteries is usually accompanied by patent ductus arteriosus |
| Quest | ion 39 |
| a) | Name the anomalies A-D |
| | A |
| | В |
| | C |
| | C |
| | D |
| b) | Name two anomalies which may result from failure of obliteration of vitelline duct |
| | |
| Quest | <u>ion 40</u> |
| | |
| a) | State the stages of lung maturation |
| | |
| | |
| | |
| | |

- b)
- Indicate true (T) or false (F)
 i) Alveoli at birth are one sixth of adult alveoli

| | ii) Respiratory distress syndrome is due to abundant surfactant iii) Pulmonary hypoplasia results from diaphragmatic hernia iv) Laryngeal cartilages are derived from the second pharyngeal arch | | | | |
|---------|--|---|--|--|--|
| Quest | <u>ion 41</u> | | | | |
| Name | anomalies | A-D and state one | possible mechanism for each one | | |
| Anomaly | | maly | Mechanism | | |
| A | | | | | |
| В | | | | | |
| C | | | | | |
| D | | | | | |
| a) | A B | nomalies A and B rue (T) or false (F) | | | |
| | i) ii) iii) iv) | Only 300 out of l Capacitation is re | ms lasts for two weeks half million sperms reach the fertilization site emoval of glycoprotein coat of the sperm head ninal vesicles constitute 60% of the seminal fluid | | |
| | ion 43 Name and A B | omalies A and B | | | |
| b) | Indicate tr i) ii) iii) iv) | Secondary oocyte Secretory phase | a remnant of mesonephric duct in female e undergoes second meiotic division during fertilization of endometrium is controlled by estrogen me is characterized by a 47, XXX chromosome | | |

| Question 44 | | |
|--------------------|-----------------------------------|--|
| a) Name | the structures labeled A-D | |
| \mathbf{A} | | |
| В | | |
| C | | |

| | D | |
|-------------|--|--------------|
| b) | Name two techniques used in prenatal diagnosis of chromosomal abnormal the first trimester | ities during |
| | | |
| Quest a) | ion 45 Name anomalies A-B | |
| | A | |
| | B | |
| | | |

- b) Indicate true (T) or false (F)
 - i)
 - ii)
 - Sacrococcygeal teratoma is a remnant of the primitive streak
 Congenital aphakia is absence of the iris
 Middle ear cavity develops from the second pharyngeal pouch
 Erector pili muscle is ectodermal in origin iii)
 - iv)