

NEET HUMAN REPRODUCTION — PREGNANCY AND EMBRYONIC DEVELOPMENT (PLACENTA, GASTRULATION) — PYQS

Max. Marks: 68

Questions: 17

Section A (MCQ) — 17 questions

Q.1 Match **List I** with **List II** related to embryonic development at various months of pregnancy :

[NEET (UG) 2026]

List I		List II	
A.	The foetus movement starts and hair appears on the head	I.	24 weeks of pregnancy
B.	The foetus develops limbs and digits	II.	20 weeks of pregnancy
C.	The foetus develops external genital organs	III.	8 weeks of pregnancy
D.	The foetus body is covered with fine hair; eyelids separate and eyelashes are formed	IV.	12 weeks of pregnancy

- (1) A-II, B-IV, C-III, D-I (2) A-II, B-III, C-IV, D-I
 (3) A-IV, B-II, C-III, D-I (4) A-III, B-II, C-IV, D-I

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full solution


Q.2 Which of the following hormones is not secreted by human placenta?

[RE-NEET (UG) 2026]

- (1) LH (2) hCG
 (3) Estrogen (4) Progesterone

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Q.3 Find the correct statement :

- A. In human pregnancy, the major organ systems are formed at the end of 12 weeks.
 B. In human pregnancy the major organ systems are formed at the end of 8 weeks.

C. In human pregnancy heart is formed after one month of gestation.

D. In human pregnancy, limbs and digits develop by the end of second month.

E. In human pregnancy the appearance of hair is usually observed in the fifth month.

Choose the correct answer from the options given below :

[NEET (UG) 2025]

- (1) B, C, D and E only (2) A, C, D and E only
 (3) A and E only (4) B and C only

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Q.4 Given below are two statements: one is labelled as **Assertion (A)** and the other is labelled as **Reason (R)**.

Assertion (A): During pregnancy the level of thyroxine is increased in the maternal blood.

Reason (R): Pregnancy is characterised by metabolic changes in the mother.

In the light of the above statements, choose the most appropriate answer from the options given below:

[NEET (UG) 2022 (Phase 2)]

- (1) (A) is not correct but (R) is correct
 (2) Both (A) and (R) are correct and (R) is the correct explanation of (A)
 (3) Both (A) and (R) are correct but (R) is not the correct explanation of (A)
 (4) (A) is correct but (R) is not correct

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Q.5 Which of the following secretes the hormone, relaxin, during the later phase of pregnancy?

[NEET (UG) 2021]

- (1) Uterus (2) Graafian follicle
 (3) Corpus luteum (4) Foetus

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Q.6 Hormones secreted by the placenta to maintain pregnancy are

[NEET 2018]

- (1) hCG, hPL, progesterone, prolactin
- (2) hCG, hPL, estrogens, relaxin, oxytocin
- (3) hCG, hPL, progesterone, estrogens
- (4) hCG, progesterone, estrogens, glucocorticoids

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Q.7 The amnion of mammalian embryo is derived from [NEET 2018]

- (1) ectoderm and mesoderm
- (2) endoderm and mesoderm
- (3) mesoderm and trophoblast
- (4) ectoderm and endoderm

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Q.8 Several hormones like hCG, hPL, estrogen, progesterone are produced by [NEET 2016 (Phase 2)]

- (1) ovary (2) placenta
- (3) Fallopian tube (4) pituitary.

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Q.9 Select the correct option describing gonadotropin activity in a normal pregnant female. [AIPMT 2014]

- (1) High level of FSH and LH stimulates the thickening of endometrium.
- (2) High level of FSH and LH facilitates implantation of the embryo.
- (3) High level of hCG stimulates the synthesis of estrogen and progesterone.
- (4) High level of hCG stimulates the thickening of endometrium.

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Q.10 Which of the following is not the function of placenta? [NEET 2013]

- (1) Facilitates supply of oxygen and nutrients to embryo
- (2) Secretes estrogen
- (3) Facilitates removal of carbon dioxide and waste material from embryo
- (4) Secretes oxytocin during parturition

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Q.11 In a normal pregnant woman, the amount of total gonadotropin activity was assessed. The result expected was : [AIPMT 2012 (Prelims)]

- (1) High levels of FSH and LH in uterus to stimulate endometrial thickening
- (2) High level of circulating HCG to stimulate estrogen and progesterone synthesis
- (3) High level of circulating FSH and LH in the uterus to stimulate implantation of the embryo
- (4) High level of circulating HCG to stimulate endometrial thickening

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Q.12 The first movements of the foetus and appearance of hair on its head are usually observed during which month of pregnancy? [AIPMT 2010 (Prelims)]

- (1) Fourth month (2) Fifth month
- (3) Sixth month (4) Third month

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Q.13 A change in the amount of yolk and its distribution in the egg will affect: [AIPMT 2009]

- (1) Fertilisation
- (2) Pattern of cleavage
- (3) Formation of zygote
- (4) Number of blastomeres produced

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Q.14 Which extraembryonic membrane in humans prevents desiccation of the embryo inside the uterus? [AIPMT 2008]

- (1) Yolk sac (2) Amnion
- (3) Chorion (4) Allantois

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Q.15 Which of the following hormones is not a secretion product of human placenta? [AIPMT 2004]

- (1) Estrogen
- (2) Progesterone
- (3) Prolactin
- (4) Human chorionic gonadotropin

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Q.16 During embryonic development, the establishment of polarity along anterior/posterior, dorsal/ventral or medial/lateral axis is called: [AIPMT 2003]

- (1) Organizer phenomena
- (2) Pattern formation
- (3) Axis formation
- (4) Anamorphosis

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Q.17 Blastopore is the pore of: [AIPMT 2000]

- (1) A.C. (2) Archenteron
(3) Blastocoel (4) Coelom

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full solution



ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9	10	11
Ans.	2	1	2	2	3	3	1	2	3	4	2
Ques.	12	13	14	15	16	17					
Ans.	2	2	2	3	1	2					