



Assiut University

تشريح وأجنة عام
المستوى الأول - الفصل الدراسي الأول
٢٠١٦/٢٠١٧
الورقة الأولى



Fac. of Vet. Med.
Depart. of Anat., Histol. & Embryol.

First Semester Examination
Course: General Anatomy & Embryology
Level: First
Code: AHE: 105

Date: 9/1/2017

Time allowed: 2 hours

Answer all the following questions illustrating your answers with diagrams as possible:

I. Write short notes on:

1. Planes of the body. (3.5 marks)
2. Classification of the skeletal muscles according to fibers arrangement. (3.5 marks)
3. Geometrical classification of the synovial joint. (3.5 marks)

II. Write on the followings:

1. Oogenesis. (2.5 marks)
2. Twins. (2.5 marks)
3. Chorion in birds and mammals. (3 marks)
4. Anatomical classification of placenta. (2.5 marks)

III. Give an account on:

1. Spermiogenesis. (2.5 marks)
2. Male and female urethra. (3 marks)
3. Kidney of horse. (2.5 marks)

IV. Fill in the spaces:

(One mark each)

- 1- The renal hilus leads to which is filled with the
- 2- The kidneys are situated in the
- 3- The shape of the left kidney of ox is while that of the right kidney of horse is
- 4- All kidneys have two surfaces except
- 5- All right kidneys are in contact with the liver except that of
- 6- The pronephros arises from the nephrotomes of the region.
- 7- The nephrogenic cord differentiates into the secretory part of the metanephros and the
- 8- The mesonephros functions in adult high fish and

انظر خلفه ←

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9- The collecting part of the metanephros develops from

10- Horse-shoe kidney results from of the caudal end of both kidneys.

11- The anomalies of the ureter are bivit orureter.

V. Choose the correct answer:

(One mark each)

1- The placenta of is endotheliochorial.

{ pig – dog – horse – sheep }

2- Early in the embryonic life, the umbilical cord contains all of the following
Except

{ notochord – yolk stalk – allantoic stalk – vitelline blood vessels – umbilical blood
vessels }

3- The inner layer of is mesoderm and the outer layer is ectoderm.

{ amnion – chorion – allantois – yolk sac }

4- The embryo of frog has the

{ chorion – amnion – both of them – none of them }

5- Oxygen reaches the chick embryo through the

{ yolk sac – allantois – chorion – amnion }

6- Implantation in human is

{ central – eccentric – interstitial }

7- Folding of the somatopleure results in the formation of

{ amnion and yolk sac – amnion and allantois – allantois and chorion – amnion and
chorion }

8- The cleavage is total and equal in

{ reptiles – birds – mammals – fish }

9- As a result of delamination, the separates from the inner cell mass.

{ ectoderm – endoderm – mesoderm }

10- The paraxial mesoderm (somites) forms the

{ brain – liver – stomach – kidney – vertebrae }

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With best wishes''

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Examiner Committee: Staff Members of Anatomy and Embryology

Exam Coordinator: Prof.Dr. / Yousria Abd El-Rahman