



# BIOLOGY

## AAKASH INSTITUTE ENGLISH

### Mock test 29 Zoology

#### Example

1. which of the following is correct regarding the location and event that occurs during capacitation of sperms?

A. Epididymis (location) & Maturation of sperm (Events)

B. Male urethra ( Location) & Gain in sperm motility ( Events)

C. female reproductive tract ( Location) & chemical changes in sperms which prepare it to fertilize ovum ( Events)

D. Vas deferens ( Location) & Loss of sperm tail ( Events)

**Answer: C**



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2. which of the followin enzyme helps sperm to penetrate zone pellucida ?

A. hyaluronidase

B. corona penetrating enzyme

C. fertilizin

D. acrosin

**Answer: D**



3. which of the following event is/are included in fast block to prevent polyspermy?

A. zona reactions

B. depolarization of ovum membrane

C. cortical reaction

D. closing of  $\text{Na}^+$  channels of the ovum membrane

**Answer: B**



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4. The event that triggers the formation of ootid is

- A. binding of sperm head to receptors (ZP3) on zona pollucida
- B. Entry of sperm into secondary oocyte
- C. Cortical reaction
- D. Entry of sperm into fallopian tube

**Answer: B**



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5. A leads to mixing of genetic material of male and female which is known as B, which result is formation of C. Fill in the above blanks with suitable option

A. fertilization ( A ) & syngamy ( B ) &

Synkaryon (C)

B. Fertilization (A) & Apomixis (B) & Embryo

(C)

C. Syngamy (A) & Amphimixis (B) &

Synkaryon (C)

D. Syngamy (A) & Apomixis (B) & Synkaryon

(C)

**Answer: C**



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6. During embryonic development of human, second cleavage is completed after about

- A. 30 hours of fertilization
- B. 60 hours of fertilization
- C. 72 hours of fertilization
- D. 48 hours of fertilization

**Answer: B**



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7. which of the following is correct regarding cleavage division?

A. cleavage divisions are resulting in formation of blastomeres

B. cleavage divisions in mammals are slow and synchronous

C. during cleavage there is increase in DNA :cytoplasm ratio

D. zona pellucida breaks after 3rd cleavage division

**Answer: C**



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**8. in mammals embryo proper is formed from**

- A. trophoblast
- B. inner cell mass
- C. Cells of Rauber
- D. Cytotrophoblast

**Answer: B**



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**9.** The stage of embryo development at which implantation occurs in human females is

- A. morula stage
- B. gastrula stage
- C. blastocyst stage
- D. Zygote Stage

**Answer: C**



10. The portion of the endometrium that covers the embryo and is located between the embryo and uterine cavity is the

- A. Decidua basalis
- B. Decidua capsularis
- C. Decidua vera
- D. Decidua parietalis

**Answer: A**





11. Initiation of gastrulation in humans is marked by formation of

- A. differentiation of inner cell mass into epiblast and hypoblast
- B. formation of three germ layers
- C. formation of primitive streak
- D. formation of chorionic villi

**Answer: C**



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**12.** find the odd one w.r.t germ layers which form the following structures?

A. Gonads

B. Adrenal cortex

C. kidneys

D. Iris muscle

**Answer: D**



13. presence of which hormone is diagnosed in Gravidex test?

A. hCG

B. hPL

C. Chorionic thyrotropin

D. Estrogen

**Answer: A**



14. Which of the following statements is incorrect?

A. Placenta is formed by structures contributed by both mother and fetus

B. TORCH infections are major cause of miscarriage in first trimester

C. Relaxin facilitates parturition by softening bones of public symphysis



D. There is no mixing of material and fetal blood occur during foetal development

**Answer: C**



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**15.** which of the following is correct regarding embryonic development?

A. Heart sound of the foetus can be heard using stethoscope usually after four

week of gestation

B. First movement of foetus occurs just after 3rd month

C. Implantation occur at morula stage

D. Allantois serve as site of blood cell synthesis in foetal stage

**Answer: A**



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**16.** Descending of testis into scrotal sac occur during

- A. 3rd month of gestation
- B. 5th month of gestation
- C. 7th month of gestation
- D. after birth of foetus

**Answer: C**



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17. Which extraembryonic membranes in human prevents dissiccaation of embryo inside uterus?

A. Amnion

B. Chorion

C. Allantois

D. Yock sac

**Answer: A**



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