Question Bank 2021

College Name- Art's commerce and Science College Bodwad

SEM II F.Y. BSc

Paper II zoology Developmental biology of vertebrates

1.The Is the process of gamete formation in the sexually reproducing animal.
A) Spermatogenesis B) Gamatogenesis C) Oogenesisi D) Gomogenesis
2. The process of formation of male Is called Spermatogenesis.
A) spermatids B) ova C) Spermatozoa D) Egg
3. Spermatogenesis occurs in the
A) Overy B)Reproductive organ C) Uterus D) Testis
4. The process of production of Ovum is known as
A) Spermatogenesis B) Gamatogenesis C) Oogenesis D) Gomogenesis
5) In the Spermatids are modified into spermatozoa.
A) Spermatogenesis B) Spermatiogenesis C) Spermiogenesis D) Spermatidogenesis
6) The developing spermatozoa are embedded in the cytoplasm of the
A) germ cells B) cone cells C) sertoli cells D) Somatic cells
7) The continue of the desired for the form of the desired continue of the des
7) The oocytes are surrounded during their entire growth and maturation stages by special cells of the overy called
A) follicle cells B) germ cells C) sertoli cells D) somatic cells
8) Cells provide production, mechanical support and nutrition to the developing spermatozoa.
A) follicle cells B) germ cells C) sertoli cells D) somatic cells

9) Synthesis of yolk is called as
A) Vitellogensis B) vitellolysis C) Vitellogenosis D) Vitellogenolysis
10) Yolk is mainly synthesized and secreted by the liver under the influence of Produced by the wall of maturing follicle.
A) progesterone B) prolactin C) Oestrogen D) relaxin
11) During fertilization nuclei of both gametes unite to form a single cell, the
A) Zymogen B) Zygote C) zygate D) Zymogene
12) The fertilization occurs, outside the bodies of male and female parents, is called Fertilization.
A) intra B) internal C) external D) none of this.
13) The process of mixing of hereditary material of male and female pronuclei is called
A) amphimixis B) amphimi C) amphymixes D) amplexus
14) is the fertilization of an egg by multiple sperm.
A) polyspermoisis B) polyspermy C) polysperm D) polygenesis
15) In frog; the cleavage is
A) Holoblastic B) incomplete C) hemiblastic D) meridional
16) In blastula , a small space , the , appear between the blostomeres.
A) holoblastocoele B) blastocoele C) atchenteron D) blastocoelom
17) During gastrulation, the blastomeres are arranged into layers.
A) two B) three C) four D) five
18) The movement of cells during gastrulation is called movements.

A) morpholytic B) morphogenetic C) morphological D) morphic
19) The morphogenetic movements are of types.
A) two B) three C) four D) five
20) The morphogenetic movements are of two types, nemely and emboly .
A) epibol B) epibelc C) epimorphic D) epiboly
21) The human egg cortex contains pigment granules and numerous tiny membrane - –ounded vesicles called
A) cortex granules B) cortical pigments C) cortical granules D) egg granules
22) The embryo is developed from A) inner cell mass B) trophoblast C) trophosphere D) zona pellucida
23) is the movement of the cells towards a single point.A) involution B) divergence C) invagination D) convergence
24) is rolling in of cells
A) involution B) divergence C) invagination D) convergence
25) the cells move in different directions from a single point.A) involution B) divergence C) invagination D) convergence
26) is the infolding or inpushing or insinking of a layer of cells into the blastocoel. A) involution B) divergence C) invagination D) convergence

27) During individual cells or group of cells separate from the primitive streak and migrate into the space between epiblast and hypoblast.
A) involution B) ingression C) invagination D) convergence
28) refers to the separation of a layer of cells from another layer by splitting.
A) involution B) ingression C) delamination D) convergence
29) refers to the reduction in size of the blastopore.
A) constriction B) ingression C) delamination D) convergence
30) Neural tube is developed from prospective
A) neuroendoderm B) neuromesoderm C) neuroectoderm D) ectoderm.
31)About 6 days after fertilization the blastocyst loosely attaches to the endometrium in a process called
a)fixation b) implantation c)implant d)transplant
32) Different regions of theare named based on their positions relative to the site of the implanted blastocyst.
a)endometrium b)decidua basalis c)decidua d) decidua capsularis
33)By about 27 weeks after implantation,the degenerates and disappears
a)decidua b)decidua basalis c)decidua parientalis d)decidua capsularis
34)provide large amounts of glycogen and lipids for the developing embrya and fetus and later becomes the maternal part of the placenta
a)decidua b)decidua basalis c)decidua parientalis d)decidua capsularis
35)is the process of forming the placenta
a)placentitation b)placementation c)placentation d)placitation

36)The fetal portion of placenta formed by the chorionic villi of the
a)endometrium b)allantois c)chorion d)amnion
37)the maternal portion of placenta formed by the decidua basalis of the
a)endometrium b)allantois c)chorion d)amnion
38)The placenta allowsto diffuse from maternal blood into fetal blood.
a) Oxygen and nutrients b)oxygen c)nutrients d)waste
39)The placenta allowsdiffuse from fetal blood into maternal blood.
a)carbon dioxide b)carbon dioxide and wastes c)oxygen d)waste.
40) The placenta stores nutrients such as carbohydrates, proteins, calcium and iron, which are released into circulation as required.
a)paternal b)maternal c)fetal d)blood
41)The umbilical cord consists ofumbilical arteries andumbilical vein.
a)one,two b)two,one c)one,three d)three,four
42)The umbilical cord consists of two umbilical arteries that carry deoxygenatedblood to the placenta.
a)paternal b)maternal c)fetal d)none of these
43)Umbilical vein that carriesacquired from the mothers intervillous spaces into the fetus.
a)oxygen and nutrients b)oxygen c) nutrients d) waste
44)Metamorphosis is the abrupt transition from form
a)egg to larval b)larva to pupa c)larval to adult d)pupa to larva

45)In frog,metamorphosis is controlled by harmones such as
a) insulin b) adrenaline c)vasopressin d)thyroxine
46)In frog,haemoglobin has lower affinity for oxygen and highly sensitive to acid.
a)larval b)pupal c)tadpole d)adult
47)During metamorphosis,theshortens because of the change from herbivorous to carnivorous diet.
a)oesophagus b)intestine c)stomach d)liver
48)During metamorohosis,larvalproneohros changes intoof adult.
a)mesonephros b)metanephros c)archenephros d)nephrons
49)alone can cause metamorohosis in frogs larva.
a)iodinine b)iodotrohin c)iodine d)idol
50)A layer ofsurrounds the entire umbilical cord and gives it as shiny appearance.
a)chorion b)endometrium c)amnion d)decidua
51)The essential functional elements of the placenta are very small finger like
a)projection b)villi c)chorionlaevae d)choriofrondosum
52)The progressive production of the phenotypic characteristics of an
Organism is called
A)Development b) embryology c) morphology d) none of these
53) Once fertilized ,the ovum is referred to as a
a) ovum b) ova c)zygote d)fetus

54) Zygote iscells.
a) haploid b) diploid c) triploid d) multicellular
55)is a particulate hereditary unit which is transmitted in the chromosome .
a) nucleus b) DNA c)chromatin d) gene
56)remain dormant throughout the period of cleavage .
a) nucleus b) DNA c)chromatin d) gene
57) During gastrulation many lethalmake their phenotypic expression into death of the gastrula .
a) mutations b)toxins c)chemicals d)antigen
58) New cells following the rapid series of division, cleavage, and the cells begin to arrange themselves aslayers known as the primary germ layers.
a) two b)three c)four d)five
59)A cell is set to bewhen its specialized fate is fixed.
a) differentiated b)demonstrate c)determined d) none of these
60) The chemical substance that is emitted by an inducer is called
a) chemogen b) biogene c) morphogen d)methenogene
61), the tissue that produces a single (or signals) that changes the cellular behavior of the other tissue.
a) induction b) responder c) indogen d) inducer
62)is the process by which cells and tissues acquire certain characteristics features and become different from each other .
a) differentiation b) induction c)determination d)none of these

63)The process in which the origin and development of the size form and other structural features of the organism occur is known as
a) morphin b) morphogenesis c) morphogen d)methenogene
64) Intracellular communication refers to the communication between
a) Cell b)Tissue c) Organ d) Tissue to tissue
65) Cancer cells will often communicate via gap junction, which are proteins known as
a) cannexins b)conexeens c) connexins d)cobbenxins
66) Cell locomotion is regulated by
a) Chemo-sterilants b)Chemo- attractants and adhesive molecules
c) Adhesive substance d) None of these
67)is a normal feature of embryogenesis and metamorphosis.
a) gene b)Cell death c)chromosomes d)nucleus
68) Programmed cell death is an active process characterized by a distinct morphological change known as
a) apoptosis b)morphogenesis c)mutogens d)morphogens
69) In C.elegans genes play key roles in regulating and executing apoptosis.
a) One b)Two c)Three d) Four
70)is the progressive changes in shape and organization in body during development.
a) Differentiation b) Morphogenesis c)Invagination d) None