

SECTION C: PREVIOUS YEARS' EXAMINATION QUESTIONS

1. Regeneration of liver is **(2007)**
- (A) Epimorphosis
- (B) Reparative regeneration**
- (C) Metamorphosis
- (D) Morphogenesis
2. In human females, menstruation can be deferred by administration of **(2007)**
- (A) FSH and LH
- (B) Estrogen and progesterone**
- (C) FSH only
- (D) LH only
3. Select the correct combination about contraceptives. **(2008)**
- | Column I | Column II |
|---------------|------------------------------------|
| (a) Pill | (i) Prevents sperm reaching cervix |
| (b) Condom | (ii) Prevents implantation |
| (c) Vasectomy | (iii) Prevents ovulation |
| (d) Copper-T | (iv) Semen contains no sperm |
- (A) a—iii, b—iv, c—iv, d—ii
- (B) a—ii, b—iii, c—i, d—iv
- (C) a—iii, b—i, c—iv, d—ii**
- (D) a—iv, b—i, c—ii, d—iii

4. Which two of the following statements are correct **(2008)**
- (a) MTP during first semester is generally safe.
 - (b) Changes of conception are nil until mother breast feeds the infant up to two years
 - (c) IUDs like copper-T are effective contraceptives.
 - (d) Contraceptive pills may be taken upto one week after coitus to prevent conception.
- (A) a, c (B) a, b
(C) b, c (D) c, d
5. Which one is the most widely accepted method of contraception presently in India? **(2011)**
- (A) Diaphragm
 - (B) Cervical caps
 - (C) IUDs
 - (D) Tubectomy
6. If vasa efferentia get blocked, gametes will not be transported from **(2011)**
- (A) Ovary to uterus
 - (B) Vagina to uterus
 - (C) Testis to epididymis
 - (D) Epididymis to vas deferens
7. MTP is considered safe up to how many weeks of pregnancy **(2011)**
- (A) Six
 - (B) Eight
 - (C) Twelve
 - (D) Eighteen
8. The technique of GIFT (gamete intrafallopian transfer) is recommended for those females **(2011)**
- (A) Who cannot produce an ovum
 - (B) Who cannot retain foetus inside uterus
 - (C) Who cannot provide suitable environment for fertilization
 - (D) Whose cervical canal is so narrow to allow passage for sperms

9. **Assertion** : Amniocentesis is banned. **(2011)**

Reason : Amniocentesis gives information about foetal abnormalities.

10. Urinogenital tract infection in males accompanied by yellow discharge, burning feeling on passing urine, fever and headache is

- (A) AIDS (B) **Gonorrhoea**
(C) Hepatitis B (D) Syphilis

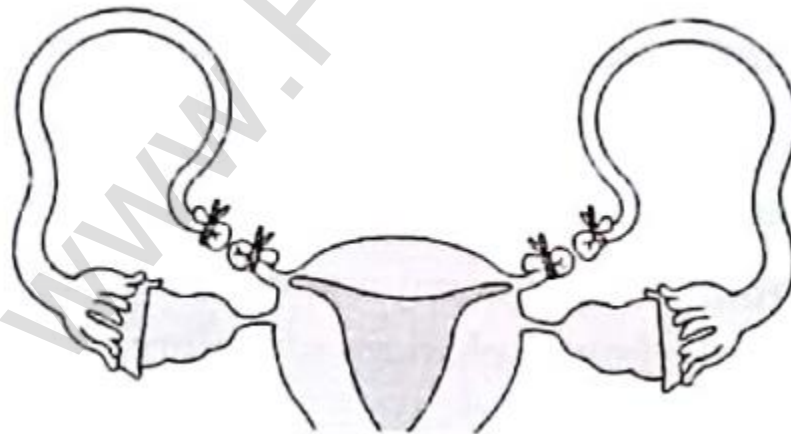
11. Which ones are all sexually transmitted diseases? **(2012)**

- (A) AIDS, Syphilis, Cholera
(B) Trichomoniasis, Malaria, HIV
(C) **Gonorrhoea, Hepatitis—B, Chlamydia**
(D) Hepatitis—B, AIDS, Haemophilia

12. A copper releasing IUD is **(2012)**

- (A) **Multiload 375** (B) LNG—20
(C) Saheli (D) Diaphragm

13. What does the figure show? **(2012)**



- (A) Ovarian cancer (B) Uterine cancer
(C) **Tubectomy** (D) Vasectomy

14. Test tube baby programme involves **(2012)**
- (A) Zygote intrafallopian transfer
 - (B) Intrauterine insemination
 - (C) Gamete intrafallopian transfer
 - (D) Intracytoplasmic sperm injection
15. One of the legal methods of birth control is **(2013)**
- (A) By having coitus at the time of day break
 - (B) By a premature ejaculation during coitus
 - (C) Abortion by taking an appropriate medicine
 - (D) By abstaining from coitus from day 10 to 17 of the menstrual cycle
16. Artificial insemination means **(2013)**
- (A) Artificial introduction of sperms of a healthy donor into the vagina
 - (B) Introduction of sperms of healthy donor directly into the ovary
 - (C) Transfer of sperms of a healthy donor to a test tube containing ova
 - (D) Transfer of sperms of husband to a test tube containing ova
17. Induced abortion is **(2013)**
- (A) IUD
 - (B) PID
 - (C) MTP
 - (D) STD
18. Which contraceptive device makes uterus unsuitable for implantation **(2013)**
- (A) Progestasert
 - (B) CuT
 - (C) Lippe's loop
 - (D) Multiload
19. CuT, LNG-20 and Cu — 7 are examples of **(2013)**
- (A) Contraceptive pills
 - (B) Surgical methods of sterilization

(C) Assisted reproductive technology

(D) Intrauterine device

(E) Monoclonal antibodies

20. Which is not a sexually transmitted disease? (2013)

(A) Genital warts

(B) Trichomoniasis

(C) Chlamydia

(D) Syphilis

(E) Myasthenia gravis.

21. **Assertion:** Periodic abstinence is a natural method where couples abstain from coitus. (2013)

Reason : Coitus from days 5-10 should be avoided because this is the time of ovulation.

22. Assisted reproductive technology, IVF involves transfer of (2014)

(A) Embryo with 16 blastomeres into the fallopian tube

(B) Ovum into the fallopian tube

(C) Zygote into the fallopian tube

(D) Zygote into the uterus

23. Tubectomy is a method of sterilization in which (2014)

(A) Uterus is removed surgically

(B) Small part of the fallopian tube is removed or tied up

(C) Ovaries are removed surgically

(D) Small part of vas deferens is removed or tied up

24. Which of the following is a hormone releasing Intra Uterine Device (IUD)? (2014)

(A) Vault

(B) Multiload-375

(C) LNG-20

(D) Cervical cap

25. IUDs are used by females..... (2014)
- (A) Act as spermicidal gel
 - (B) Block the entry of sperms into vagina
 - (C) Are implanted under skin where they release progestogen and estrogen
 - (D) Release copper ions in the uterus that increase phagocytosis of sperms
26. Ectopic pregnancies are referred to as (2015)
- (A) Implantation of embryo at site other than uterus
 - (B) Implantation of defective embryo in the uterus
 - (C) Pregnancies terminated due to hormonal imbalance
 - (D) Pregnancies with genetic abnormality
27. A childless couple can be assisted to have a child through a technique called GIFT. The full form of this technique is (2015)
- (A) Gamete intra fallopian transfer
 - (B) Gamete internal fertilization and transfer
 - (C) Gamete cell internal fallopian transfer
 - (D) Gamete inseminated fallopian transfer
28. Which of the following is not a sexually transmitted disease? (2015)
- (A) Trichomoniasis
 - (B) Encephalitis
 - (C) Syphilis
 - (D) Acquired Immuno Deficiency Syndrome (AIDS)
29. Which of the following viruses is not transferred through semen of an infected male? (2015)
- (A) Chikungunya virus
 - (B) Ebola virus

- (C)Hepatitis B virus
- (D)Human immunodeficiency virus
30. The hormone releasing intrauterine devices such as Progestasert specifically (2015)
- (A)Suppress sperm motility
- (B)Increase phagocytosis of sperms
- (C)Make uterus unsuitable for implantation
- (D)Suppress fertilizing capacity of sperms
31. Transmission of sexually transmitted diseases like syphilis can be prevented by (2015)
- (A)Medical termination of pregnancy
- (B)Undergoing tubectomy
- (C)Use of the correct dose of a good birth control pill
- (D)Complete abstinence from coitus
32. Gamete intra fallopian transfer (GIFT) means (2015)
- (A)Fertilization of ovum by sperm injection and transfer to uterus
- (B)Transfer to ovum into fallopian tube to another female for normal fertilization
- (C)Artificial transfer of sperms into vagina for fertilization
- (D)Transfer of embryo with one than eight blastomeres to fallopian tube
33. Which of the following approaches does not give the defined action of contraceptive? (2015)
- (A)Hormonal contraceptives — prevent/retard entry of sperms, prevent ovulation of fertilization
- (B)Vasectomy — prevents spermatogenesis
- (C)Barrier methods — prevent fertilization
- (D)Intra uterine devices — increase phagocytosis of sperms, suppress sperm motility and fertilizing capacity of sperms

34. In context of Amniocentesis, which of the following statement is incorrect? (2016)

- (A) It can be used for detection of Down syndrome
- (B) It can be used for detection of Cleft palate
- (C) It is usually done when a woman is between 14-16 weeks pregnant
- (D) It is used for prenatal sex determination.

SECTION D: CHAPTER – END TEST

1. Ageing of skin results in

- (A) Thickening of skin
- (B) Increase in toe nail growth
- (C) Increase in collagen and elastin fibres
- (D) Decrease in activity of sebaceous glands

2. According to which theory is the given statement correct?

Statement: B and T cells having receptors of self antigens, undergo programmed cell death

- (A) Somatic mutation theory
- (B) Programmed senescence theory
- (C) Wear and tear theory
- (D) Immunological theory

3. It is not related to replacement of degenerated red blood cells by new ones

- (A) Growth through undifferentiated cells
- (B) Growth through reserved cells
- (C) Multiplication growth
- (D) Accretionary growth

4. Branch of biology dealing with ageing is
- (A)Kalology (B)Dermatology
(C)Gerontology (D)Psychobiology
5. Protein which plays a significant role in ageing is
- (A)Myosin (B)Collagen
(C)Elastin (D)Actin
6. Maximum growth rate occurs in
- (A)Stationary phase (B)Lag phase
(C)Exponential phase (D)Ssecscent phase
7. Which is the correct example of the type of regeneration out of the two major types?
- (A)Morphallazis —Healing of wound in the skin
(B)Epimorphosis—Replacement of old and dead erythrocytes by the new ones
(C)Morphallazis—Regeneration of two transversely cut equal pieces of one *Hydra* into two small Hydras
(D)Epimorphosis—Regeneration of curshed and filtered out pieces of Planaria into as many new planarians
8. Programmed cell death is
- (A)Autotomy (B)Cell lysis
(C)Apoptosis (D)None of the above
9. Reserve cells are
- (A)Differentiated with no capacity of cell division
(B)Differentiated with capacity of cell division
(C)Undifferentiated with capacity of cell division
(D)Undifferentated with no capacity of cell division

10. A gradual decrease in size of tail during metamorphosis of frog is due to
- (A) Cell necrosis (B) Pinocytic activity
(C) Programmed cell death (D) Cell senescence
11. Ageing starts with disappearance of
- (A) Spleen (B) Pituitary gland
(C) Thymus gland (D) Parathyroid gland
12. Axolotl larva shows : i, Neoteny and paedogenesis ii, Absence of thyroid affects metamorphosis iii, It is hemichordate
- (A) iii correct (B) ii and iii correct
(C) i and ii correct (D) i, ii, and iii correct
13. One of the major reasons for apoptosis is
- (A) Lack of polymerases
(B) Activity of endonucleases
(C) Activity of mitochondria
(D) Reduced food intake
14. It can regenerate entire alimentary canal
- (A) Fish (B) Amphibian
(C) Bird (D) Sea Cucumber
15. Growth through increase in volume is
- (A) Cartilage (B) Striated muscle
(C) Nerve fibre (D) Lens of eye
16. Ageing is due to accumulation of harmful proteins. The theory is
- (A) Free radical (B) Cross-linking
(C) Error catastrophe (D) Wear and Tear

17. Free radicals are formed through
- (A) Oxidation (B) Reduction
(C) Hydrolysis (D) Synthesis
18. Read the statements and find out true/false.
- (a) Type of regeneration in Hydra is known as epimorphosis.
(b) Members of reptiles such as lizards exhibit autotomy.
(c) Regeneration limb in amphibians involves Morphallaxis
- (A) a and b are false but c is true
(B) a and c are false but b is true
(C) b and c are false but a is true
(D) b and c are true but a is false
19. With the advancement of age, hair of males start thinning due to
- (A) Falling of hair
(B) Low ATP formation
(C) Reduced rate of protein synthesis
(D) None of the above
20. The greatest ability for regeneration amongst the animals is found in
- (A) *Planaria* (B) *Pheretima*
(C) *Hirudmaria* (D) *Ascaris*
21. Which one is not a case of epimorphosis?
- (A) Replacement of limb in Salamander
(B) Formation of sperms from small clump of cells
(C) Replacement of severed arm of Star Fish
(D) Regeneration of tail by lizard

22. Formation of whole body from a fragment is
- (A) Morphallaxis (B) Epimorphosis
(C) Epigenesis (D) Auxetic growth
23. In animals, chaperones are substances responsible for
- (A) Regeneration (B) Ageing
(C) Development (D) Parthenogenesis
24. Most accepted theory of ageing is
- (A) Death of brain cells
(B) Non-functioning of α -cells in pancreas
(C) Less RBC in blood
(D) Non-functioning of thymus gland
25. Growth rate in childhood is controlled by
- (A) Thymosine (B) Thyroxine
(C) Oestrogen (D) Progesterone
26. During regeneration, modification of an organ to another is known as
- (A) Morphogenesis (B) Epimorphosis
(C) Morphallaxis (D) Accretinary growth.
27. Regeneration of *Hydra* is
- (A) Morphallaxis by interstitial cells
(B) Epimorphosis by interstitial cells
(C) Epimorphosis by archaeocytes
(D) Epimorphosis by glandular cells

28. Evisceration occurs in

- (A) Annelida
- (B) Echinodermata
- (C) Chordata
- (D) Coelenterata

29. Characteristic autotomy occurs in

- (A) Annelida
- (B) Echinodermata
- (C) Chordata
- (D) Coelenterata

30. According to immunity theory, ageing is due to

- (A) Accumulation of errors
- (B) Reduced functioning of endocrine glands
- (C) Degeneration of thymus
- (D) Accumulation of waste products

31. Auxetic growth occurs in

- (A) Human beings
- (B) Frog
- (C) Nematodes
- (D) Lizards

32. Auxetic growth is

- (A) Increase in cell volume only
- (B) Increase in cell number only
- (C) Increase in fatty tissue
- (D) Increase in intercellular material

33. The ability of animals to regenerate lost part was first reported by

- (A) Trembley
- (B) P.R.white
- (C) Steward
- (D) Harrison

34. Study of formation, growth and development of new individual from an egg is

- (A) Apomixis (B) Embryology
(C) Embryogeny (D) Cytology

35. Growth hormone activity is

- (A) Unaffected by thyroxine
(B) Increased by thyroxine
(C) Decreased by thyroxine
(D) None of the above

36. In an ageing person, there is a

- (A) Increase in mucopolysaccharide cement of connective tissue
(B) Gradual alternation in components of connective tissue
(C) Increasing collagen rigidity of connective tissue
(D) Both B and C

37. In ectopic pregnancy, foetus grows in

- (A) Vagina (B) Fallopian tube
(C) Uterus (D) Body cavity

38. Which is 'once a week' pill?

- (A) Shaeli (B) Mala-D
(C) Mala-N (D) Both A and C

39. Which is not included in barrier methods of birth control?

- (A) Diaphragm (B) Lippe's loop
(C) Cervical cap (D) Vault

40. Copper T/loop prevents

- (A) Fertilisation (B) Ovulation

- (C)Zygote formation (D)Cleavage
41. A method of sterilisation is
- (A)IUD (B)Diaphragm
- (C)Tubectomy (D)Loop
42. Oral contraceptive is composed of
- (A)Estrogen and growth hormone
- (B)Estrogen and progesterones
- (C)Esterogen and testosterone
- (D)Progesterone and testosterone
43. Which is related to males?
- (A)Oral pill (B)Tubectomy
- (C)Vasectomy (D)None of the above
44. In assisted reproductive technology, the method in which a sperm is directly injected into ovum is called
- (A)GIFT (B)IUI
- (C)ZIFT (D)ICSI
45. Most important component of oral contraceptive is
- (A)Thyroxine (B)LH
- (C)Progesterone (D)GH
46. At the 1.7 per cent growth rate our population could
- (A)Double in 17 years (B)Triple in 33 years
- (C)Double in 33 years (D)Double in 50 years
47. A foetal sex determination test based on the chromosomal pattern in the amniotic fluid surrounding the developing embryo is called
- (A)Amniocentis (B)Sterilisation

(C) Conception

(D) Amniocentesis

48. IVF involves transfer into fallopian tube of

(A) Zygote or embryo upto 8-celled stage

(B) 32-celled stage

(C) Zygote only

(D) Embryo only upto 8-celled stage

49. Cu ions of IUDs

(A) Prevent ovulation

(B) Increases phagocytosis of sperms

(C) Suppress sperm motility

(D) Make uterus unsuitable for implantation

50. Which of the following cannot be considered as assisted reproductive technology?

(A) In vitro fertilization (IVF)

(B) Medical termination of pregnancy (MTP)

(C) Gamete intrafallopian transfer (GIFT)

(D) Intracytoplasmic sperm injection (ICSI)