


JSTSE PREVIOUS YEARS

BIOLOGY (2011 – 2015)

1. Consider the following statements about antigens [2011]
- 1 They induce the formation of antibodies
 - 2 They produce immunity
 - 3 They are formed within the body
- Of these statements, the correct ones are
- (a) 1 and 2
 - (b) 2 and 3
 - (c) 1 and 3
 - (d) 1, 2 and 3
2. Reflex action is a function of [2011]
- (a) Cerebellum
 - (b) Spinal cord
 - (c) Medulla
 - (d) Autonomous nervous system
3. The Sliva helps in digestion of [2011]
- (a) proteins
 - (b) fats
 - (c) fibres
 - (d) starch
4. Inside the body, blood does not coagulate due to the presence of: [2011]
- (a) fibrin
 - (b) haemoglobin
 - (c) heparin
 - (d) thromoboplastin
5. A heart beat requires approximately [2011]
- (a) 0.5 second
 - (b) 0.8 second
 - (c) 0.5 minute
 - (d) 1 minute
6. Thyroid gland is situated near which of the following organs: [2011]
- (a) Liver
 - (b) Spleen
 - (c) Larynx
 - (d) Kidney

7. The Salivary Gland secrete Sliva which contains the enzyme : [2011]
(a) Pepsin (b) Resin
(c) Ptyalin (d) Lipase
8. Which of the following correctly explains the Phenomenon of "Test Tube Bady" ? [2011]
(a) When every process of embryo formation is in the test tube.
(b) When the embryo develops in a test tube
(c) When the fertilisation is external and development is internal
(d) When the fertilisation internal and development is external
9. Temperature in human body is controlled by [2011]
(a) pituitary gland (b) adrenal gland
(c) thyroid gland (d) hypothalamus gland
10. Which of the following is connected with blood pressure ? [2011]
(a) Liver (b) Testis
(c) Pancreas (d) Adrenal
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11. Which of the following is produced during allergic reaction : [2011]
(a) Heparin (b) Histamine
(c) Seratonin (d) Selastamine
12. Nervous System is affected by the shortage of [2011]
(a) Oxygen (b) Sulphur
(c) Carbon (d) Sodium
13. Allergy is caused due to : [2011]
(a) inflammation of upper respiratory tract
(b) Inhalation of pollens
(c) introduction of foreign material in the body
(d) antigen-antibody reaction
14. Scratching eases itching because : [2011]
(a) it kills enzymes
(b) it suppresses the production of enzymes that causes itching
(c) it removes the outer dust in the skin
(d) it stimulates certain nerves which direct the brain to increase the production of anti histaminic chemicals.

15. The hormone responsible for the secretion of milk in mothers, is : [2011]
- (a) ACTH (b) Leutinising hormone
(c) Adrenalin (d) Lactogenic
16. What is correct sequence of the following in a heart attack : [2011]
- (a) Narrowing of the inner orifice of the vessel
(b) 'Plaque' from fibrous tissue and high Cholesterol
(c) Inadequate supply of blood and oxygen
(d) Clots of blood carried into the coronary arteries
- (a) 1, 2, 3, 4 (b) 2,4, 1, 3
(c) 2, 3, 1,4 (d) 4, 2, 1, 3
17. Which components of light are absorbed by chlorophyll: [2011]
- (a) Violet and Red (b) Red and Orange
(c) Blue and Red (d) Violet and Yellow
18. Plant hormone that induces cell division is [2011]
- (a) Auxins (b) Gibberellins
(c) Dormins (d) Kinnins
19. Reflex action is a function of: [2012]
- (a) Spinal cord (b) Medulla
(c) Cerebrum (d) Cerebellum
20. Which statement correctly explain the "Test Tube Baby" [2012]
- (a) the embryo develops in a test tube
(b) fertilization internal & development of embryo external
(c) fertilization is external & development of embryo internal
(d) Fertilization external & development of embryo too external
21. The process of carrying food from leaves to other parts of a plant is called [2013]
- (a) Transpiration (b) Translocation
(c) Transportation (d) Transformation
22. In anaerobic respiration pyruvate is converted into [2013]
- (a) ethanol (b) CO₂
(c) acetic acid (d) lactic acid



23. Filtration unit of kidney is [2013]
- (a) uretor (b) urethra
(c) neuron (d) nephron
24. Cochlea is related to: [2013]
- (a) ear (b) nose
(c) tongue (d) eye
25. Peptic ulcer is caused by: [2013]
- (a) Helicobacter pylori (b) Trypanosoma
(c) Staphylococci (d) None of the above
26. Peptic ulcer is caused by: [2015]
- (a) Acidity related pain and bleeding in stomach
(b) Stressful life
(c) Helicobacter pylori
(d) Virus
27. Function of gall bladder in our body is: [2015]
- (a) To produce bile (b) To consume bile
(c) To store bile (d) None
28. Blood pressure in a normal person is: [2015]
- (a) 120/80 mm Hg. (b) 80/120 mm Hg.
(c) 140/80 mm Hg. (d) 120/60 mm Hg.
29. Which type of carbohydrate stored in animal: [2015]
- (a) Starch (b) Cellulose
(c) Glycogen (d) Glucose
30. Following is the example of internal fertilisation: [2015]
- (a) Hen (b) Fish
(c) Star fish (d) Frog
31. Production of Dolly Sheep by: [2015]
- (a) Sexual reproduction (b) Fragmentation
(c) Regeneration (d) Cloning

