

TEST-SERIES FOR MHT-CET 2009 BIOLOGY

- PROF. ROHAN SHENOY

1. Theca interna of developing ovarian follicle secretes
 - a) Estrogen and progesterone
 - b) LH
 - c) Estrogen
 - d) Human chorionic gonadotropin
2. Rate and rhythm of respiration is controlled by
 - a) Brainstem
 - b) Corpora cavernosum
 - c) Medulla oblongata
 - d) Cortex of cerebrum
3. The human parathyroid glands are
 - a) Located in the midline of the body
 - b) Four in number
 - c) Embedded to the poles of thyroid gland
 - d) All the above
4. Malpighian corpuscle means
 - a) Glomerulus and Bowman's capsule
 - b) All parts of nephron lying in the renal cortex
 - c) Bunch of capillaries
 - d) Layers of cells and interstitial spaces
5. How does the cardiac impulse flow over the heart?
 - a) SA node > AV Node > Bundle of His > Purkinje fibres
 - b) SA node > Purkinje fibres > AV node > Bundle of His
 - c) Bundle of His > Purkinje Fibres > AV node > SA node
 - d) AV node > SA node > Bundle of His
6. The world wide web is also called as
 - a) Intranet
 - b) Internet
 - c) CISCO
 - d) DC++ Hub
7. The objective of fisheries is
 - a) Commercial benefit or profit
 - b) Conservation of aquatic animals
 - c) Generation of employment
 - d) To increase foreign exchange
8. The blood pressure is routinely measured in
 - a) Arteries
 - b) Veins
 - c) Capillaries
 - d) Heart
9. Antibodies are
 - a) Albumins

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- b) Alpha globulins
 - c) Beta 2 globulins
 - d) Gamma globulins
10. Severe immune failure caused by an infection
- a) AIDS
 - b) Paratyphoid fever
 - c) HIV
 - d) Both (a) and (c)
11. Diseases which can be transmitted only by heredity are
- a) Non-infectious
 - b) Non-communicable
 - c) Possibly curable by gene replacement therapy
 - d) All of the above
12. The carrying capacity of an environment depends upon
- a) Availability of natural resources
 - b) Growth of the population inhabiting it
 - c) Sex ratio of its population in the reproductive age group
 - d) Food, housing, education and health care facilities
13. Hormone that causes closure of stomata in hot conditions
- a) ABA
 - b) Ethylene
 - c) NAA
 - d) GA3
14. In the male gametophyte, the tube nucleus is the nucleus of
- a) Prothallial cell
 - b) Generative cell
 - c) Vegetative cell
 - d) Bigger male gamete
15. When one molecule of glucose undergoes complete aerobic respiration, how many ATPs are produced through FADH_2 ?
- a) 2
 - b) 4
 - c) 8
 - d) 30
16. In transpiration through stomata, D.P.D. of mesophyll cells
- a) Increases
 - b) Decreases
 - c) Remains unchanged
 - d) Increases in day time but not in night time
17. Mushrooms crops are harvested in ____ harvestings.
- a) One
 - b) Two

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- c) Three
d) Four
18. In photosynthesis, _____ is reduced.
- a) Water
b) Glucose
c) Enzymes
d) Carbondioxide
19. Hirudin is
- a) An insect that secretes anti-coagulant in its saliva
b) A medically important protein produced by recombinant DNA technology
c) An monoclonal antibody that prevents spread of cancer
d) Experimental recombinant vaccine against Haemophilus
20. Identify the incorrect statement
- a) Remote sensing can produce pictures even in dark
b) Nuclear energy is inexhaustible
c) Species that live no more are called as endangered
d) Both (a) and (c)

Answer keys:

Q. no.	Key	Explanation
1	C	Theca interna secretes only estrogen. Progesterone is secreted by corpus luteum(yellow body)
2	A	Pons varolli and medulla oblongata together control the rate and rhythm of respiration
3	B	The parathyroid glands are four in number, embedded in the posterior tissue of the thyroid.
4	A	
5	A	
6	B	
7	A	
8	A	Blood pressure is routinely measured in brachial artery(arm). Blood pressure in veins and capillary is very low.
9	D	
10	A	HIV is the name of the virus, AIDS is the name of the "effects" produced.
11	C	A disease transmitted by heredity means one which is caused by mutation of a gene or chromosomal abnormality.
12	A	
13	A	Hence, ABA is known as anti-dessicant hormone or stress hormone.
14	C	
15	B	One FADH ₂ yields 2 ATP. Two FADH ₂ are formed and oxidized in the complete aerobic respiration of one glucose molecule.
16	A	In the process of transpiration, water is lost from the cell. This causes reduction in turgor pressure(TP) and rise in osmotic pressure(OP). The

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		D.P.D. is calculated by the formula $O.P. - T.P.$
17	B	Both the harvestings are two to three weeks apart.
18	D	
19	B	
20	C	Remote sensing equipments can have their own source of light because of which they can produce images even when its dark.