070130

By WASSWA ENOCK
P530/1 and P530/2

How are epithelial tissues adapted to ẽir function (10mks)
a) Describe ẽ structure of vascular tissues in plants (10 mks)
b) How is each of ẽ following adapted for transport of water?
(i) Xylem (10mks)
(ii) Phloem tissue (10mks)
Compare cardiac muscle & skeletal muscle (8mks)
How is each of ẽ following muscles adapted for their function.
(i) Cardiac (8mks)
(ii) Skeletal (8mks)
Compare a bone & cartilage (8 mks)
How is a bone adapted for its function (10mks)
What are ẽ dangers of a Rhesus -ve mother bearing a Rhesus +ve fetus in her womb.
Briefly describe how ẽ problem can be solved (5mks)
Describe ẽ structure of antibody (5mks)
How does ã body react when,
a) a blood vessel is cut.
b) when antigen enters ẽ body (9mks)
What is ẽ importance of ẽ following
T-helper cells (6mks)
B-cells
What is meant by ẽ term attenuated?
What is ẽ importance of injecting a vaccine of tuberculosis into ẽ body for ã immunity of an individual (10mks)
How are red blood cells adapted for ẽir function (10mks)
Discuss ẽ events that take place during a complete heart beat (12
Compare gametogenesis in male and female 10
Describe ẽ hormonal control in menstrual cycle C10
Describe ẽ hormonal interaction from pregnancy to lactation in human female C10
What are ẽ causes of infertility in humans C10

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Describe ē process of ovule dev't in a plant (10)
How are pollen grains formed in ē anther of ē flower (10)
Describe ē mechanisms that prevent in breeding in plants (10)
Briefly explain what takes place wēn;
(a) Sperm meets ovum (10
(b) Pollen grain lands on ē right stigma (10
Distinguish btn polyploidy & aneuploidy (6
Discuss how polyploidy leads to speciation (10
Distinguish btn convergent and divergent evolution (2
Distinguish btn homologous and analogous structures (2
What are ē essentials of Darwin's theory of evolution (10
Discuss ē different forms of natural selection (10
What is meant by ē term isolating mechanism (2
Discuss how isolation can lead to evolution (4
Discuss factors that cause changes in allele frequency in a popn:
Explain how ē plasma membrane is adapted to its function (10
Discuss how ē components of ē plasma membrane enables it to be fluid.
Describe ē mechanism of water uptake by roots (10
Briefly describe how water moves up ē stem
Describe how sugars are translocated according to ~~Munch's flow~~ Pressure flow hypothesis (10
Describe ē condition
Describe ē following methods of controlling popn size
Capture-recapture (4
Quadrant (4
Describe how mutation may lead to evolution (10
how abnormal haemoglobin arises in ē popn (10
different forms of mutation in ē popn (10
Discuss events that takeplace during meiotic division in a cell

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Candidate's Name: .....

Random

Discuss the significance of

(i) Territorial behaviour (10

(ii) Courtship behaviour (10)

What is meant by terms

(i) Vacuum activity (03)

(ii) Displacement activity (03)

(iii) Altruism (02)

iii) Kinases (02)

IM Tactic response (02)

Distinguish ~~learned~~ Innate and learned behaviour (06)

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DISCUSS

(a) Describe how the muscle fibre shortens when stimulated (10 mks)

(b) Discuss how Voluntary muscles are adapted for their function (10 marks)

For More information
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