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Seat No : _____

No. of Printed Pages : 02

Sardar Patel University
B.Sc- 3rd Semester Exam.; 2019
Zoology, Code : US03CZOO22
Human physiology and adaptation

Date: 27.11.2019(Wednesday)

Time:2 -5 pm

F.M--70

Q.1. Multiple choice questions. Attempt all.

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- (i) In intestine food materials are absorbed through?
(a) Villi (b) Sub -mucosa (c) Gastric gland (d) Sub-tenticular cells
- (ii) Trypsinogen is changed to trypsin by ?
(a) Gastrin (b) Enterogastrone (c) Enterokinase (d) Secretin
- (iii) The stored food in animals is called?
(a) Cellulose (b) Starch (c) Glucose (d) Glycogen
- (iv) Disease aggravated by pollution is?
(a) Haemophilia (b) Rheumatism (c) Scurvy (d) Bronchitis
- (v) The vital capacity of adult human being is about?
(a) 1200 ml (b) 2400ml (c) 3600ml (d) 4800ml
- (vi) Pulmonary aorta carries blood from?
(a) Liver to lung (b) Lung to heart (c) pure blood from heart to lung
(d) Impure blood from heart to lung
- (vii) Carotid artery supplies oxygenated blood to ?
(a) Lungs (b) Intestine (c) Brain (d) None of these
- (viii) Coronary heart disease is due to?
(a) Streptococcus (b) Inflammation of pericardium (c) Weakening of heart valves
(d) Insufficient supply of blood to the heart muscles.
- (ix) Webbed feet is the characteristic feature of-----adaptation.
(a) Desert (b) Aquatic (c) Burrowing (d) Volant
- (x) Scansorial adaptation means animals adapted for-----?
(a) Burrowing (b) Fast running (c) Tree climbing (d) None of these

(1)

(P.T.O)

Q.2 Short answer questions. Write any ten.

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- (i) Which types of teeth are present in a mouth of man?
- (ii) Name the disorders of digestive system.
- (iii) Describe the role of salivary glands.
- (iv) Define vital capacity? What is its significance?
- (v) Write the composition of air.
- (vi) Define larynx.
- (vii) write the functions of blood.
- (viii) What are lacteales?
- (ix) List the events that occur during cardiac cycle.
- (x) Define echolocation
- (xi) Write the functions of feathers in birds
- (xii) Give any four cursorial adaptation.

Q.3. Describe the process of absorption of food in detail.

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OR

Q.3. Write notes on:

- (a) Digestive glands(any two)
- (b) Ulcerative colitis

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Q.4. Describe respiratory organs in human.

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OR

Q.4. Write notes on:

- (a) Tuberculosis
- (b) Emphysema

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Q5. Describe:

- (a) ECG
- (b) Hypertension

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OR

Q.5. Write notes on:

- (a) Anaemia
- (b) Blood transfusion

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Q.6 Give an account of aquatic adaptation giving suitable examples.

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OR

Q.6. Describe:

- (a) Volant adaptation
- (b) Camouflage

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