

PART - A**TIME: 2hrs 15 min****Marks: 30**

Instructions: 1. 15 minutes allocated to read the question paper. 2.30 hours allocated to write answers. 2. Part-A must be answered in a separate answers sheet. 3. Students can take Part-A (Question Paper) with them. 4. Map and Part-B (Bit Paper) should tag to the answer sheet and give them to INVIGILATOR

SECTION - 1

**NOTE: 1 Answer the following. Questions
2 Each question carries 1 Mark**

- 1) What is Gliricidia? Where is it grown? What are the uses? SA-1
- 2) In which place the kidneys fixed in the patient from the donor? SA-1
- 3 Write differences between Haemoglobin and Chlorophyll
- 4) Complete the table

Sn	scientist	Invention
1	Gyro lama fabrice	
2		capillaries
3	Marcello malfigi	
4		Valves in veins

SECTION - II

**NOTE: Answer the following questions
2 Each question carries 2 Mark**

- 5) How sustainable development is useful in natural resource management?
- 6) What is the reason of explosive weed growth in Kolleru Lake?
- 7)) write the consequences if blood is not clot in human body
- 8) Describe the constructions when you observe the spoiled bred under a microscope
- 9) Child marriage is a social evil 'write any 4 slogans to conduct a rally on it?

SECTION - III (4 x 4 = 16 Marks)**NOTE:**

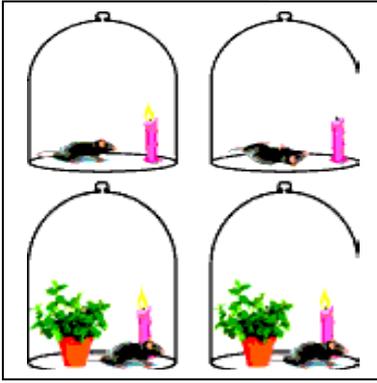
- 10) Explain divergent evolution and convergent evolution with example?

OR

Osmosis, root pressure transpiration play key role in transportation of water and minerals in plants.

Explain how they work in transportation of water and minerals in plants

11) Observe the experiment and answer the following questions



1. Who conducted this experiment for the first time?
2. What happened to the burning candle and a mouse in a closed bell jar?
3. What was the observation when a candle, a mouse and a mint plant were placed inside a closed bell jar?
4. What can be concluded from the above experiment?

OR

How would you demonstrate that green plants release oxygen when exposed to light?

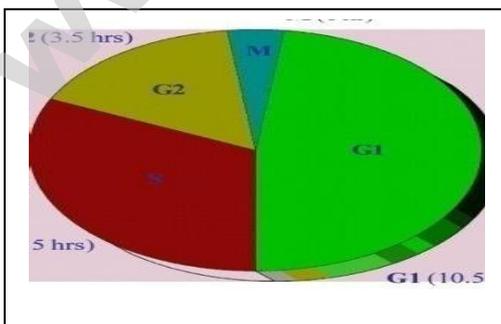
Write the experiment procedure, observation and Result

12) Observe the following table and answer the following questions

sn	Alkaloid	Name of the plant	Part of the plant	uses
1	Quinine	Cinchona officinalis	bark	Antimalarial drug
2	Nicotine	Nicotine tobacco	leaves	insecticide
3	Reserpine	Rauwolfia serpentine	fruit	Pain killer
4	Caffeine	Coffea Arabica (Coffee plant)	Seed	nervous system stimulant
5	Nimbin	Azadirachta indica (Neem)	Seeds, Bark, Leaves	Antiseptic

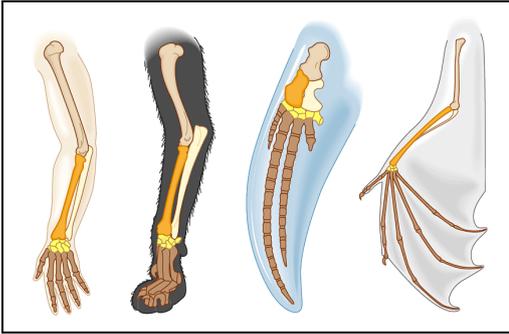
1. Which alkaloid is used in treatment of malaria?
2. Alkaloid nimbin obtained from which plant and which part?
3. What is the chemical compound Alkaloids contains?
- 4) What is the use of alkaloids in the plants?

Or



1. What does this diagram indicate? Name the Different phases in it?
2. What is interphase? What changes occurred in The stage?
3. Write the different stages in M phase?
- 4) Mention the duration of different stages

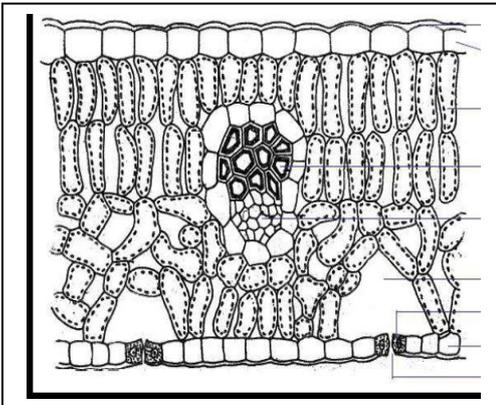
13) Answer the following questions observing given diagram



1. Identify the animals which has these organs
2. What is the common factor of these organs?
3. Why did Charles Darwin produce these evidences?
4. What do you learn from these evidences?

OR

Answer the following questions observing given diagram



1. Name the diagram and label the parts.
2. Explain the different parts of this diagram.
3. How is its structure suitable for its function?
4. Why does it contain a portion of head, number of mitochondria and a long tail?

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SSC PUBLIC EXAMINAIONS - MAR 2017
GENERAL SCIENCE Paper - II (Biological Science)

PART - B

30 Minutes

Marks: 10

I Write Capital letter showing the correct answer for the following questions in the brackets 10 x 1/2 = 30

- 14 Stomach is protected by power full hydrochloric acid. ()
A) Mucus B) enzymes C) hormones D) water
- 15) 1 Mushrooms [] a) secondary consumer
2. cuscuta [] b) producer.
3. Amoeba [] c) Primary consumers. ()
A) 1-b, 2-a, 3-c B) 1-b, 2-a, 3-c C) 1-b, 2-a, 3-c D) 1-b, 2-a, 3-c
- 16) 1) when we enter a dark room we cannot see anything immediately. Slowly we are Able to see the things around us in the room.
2) This is because of increase in diameter of pupil, which allows more light in. ()
- A 2 is the right clarification to the statement 1
B. 2 is the wrong clarification to the statement 1
C statement and clarification both are wrong
D statement is right clarification both is wrong
- 17) **Identify the statement which is not related to insulin** ()
A Islets of Langerhans in pancreas gland secrets insulin
B) Daibetis incipidis ocured due to the deficiency of insulin
C) Professor of Pathology Paul Langerhans coined the name insulin
D) In Latin 'insula' means an island
- 18) **Spermicides means** ()
A) antibiotics B) insecticides C) weedicides D) sperm killers
- 19) **The hormones released when stomach is full** ()
A). Grelin B). Lepton C) Insulin D) adrenaline
- 20) Experiment moving of oiled potato through cycle tube is to understand ()
A) Movement of food in oesophagus
B) Churning of food in stomach
C) Absorption of food in small intestine
D) Function of pyloric sphincter

21)



- Diagram shown in useful in ()
- A) Ingestion B) defecation C) absorpction D digestion

22) Observe the table choose the right words ()

1	Ptyalin	
2		proteins
3	Lipase	

- A) Carbohydrates ,pepsin ,fats B) fats ,pepsin ,carbohydrates
B) fats carbohydrates pepsin D) carbohydrates fats pepsin

23) According to Lavoisier fixed Gas is ()
A oxygen B hydrogen C Methane D carbon dioxide S

24) Marcello Malpighi observed blood capillaries ()
A. Petazium of Bat B. Leg of Bat
C Petazium of skin D. Petazium of Nose

25) vascular Bundle comprise of ()
A. xylem B phloem C xylem and phloem D. xylem phloem and root hairs

26) In which side of the heart contain oxygenated blood ()
A) Right auricle B Left ventricle C right ventricle D left auricle

27) 1) Alkaloids, tannin, resin, latex are primary metabolic ()
2) Carbohydrates, proteins fats are secondary metabolic
A) Both are not Correct B) 1 is correct C) 2 is only correct D) both are wrong

28) 1) Nerves which carry impulses from body parts to Brain are sensory nerves ()
2) These are also called nerves
A) Both are wrong B) Both are Correct C) 1 is correct D) 2 is correct

29) Fight or Flight hormone ()
A) Thyroxin B) Testosterone
C) adrenaline D) progesterone

30) Harshitha went to fruit market to get seedless fruits amazed and asked manvitha how do we get Fruits without seeds? She answered. what would be the Answer ()

- A. Removal of seeds B. Parthenogenesis C. Androgen sis D No seedless fruits

31) i) DNA means Deoxy Ribo Nicotinic Acid ()
ii) Watson & crick discovered the structure of DNA
A) Both are correct B) Both are wrong C) 1 is correct D) 2 is correct

32) Which parts are effected by Florosis ()
A) Blood and digestive juice B) Bones and teeth C) skin & Hair D) Eye and Ear

33) Dengue and Malaria are caused by carrier ()
A. Aedes and anopheles female mosquitoes
B. anopheles and culex female mosquitoes
C) Aedes and anopheles male mosquitoes
D) Anopheles and culex male mosquitoes