

**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 happens if we over cook the food materials ?
- 2) How you can identify the Pellagra
- 3) complete the table

Sl no	Organism	Respiratory organs
1		Gills
2	frog	
3		Trachea
4	Crocodile	

- 4) If you have two varieties of fruit yielding trees in your garden. One tree has the character of giving big sized fruits but less in number. The taste of the fruit is pretty good. The other one produce more number of fruits but they are neither big in size nor tasty.
  - 1) Which are your desirable characters
  - 2) Which type of vegetative propagation do you adopt to get desirable character

**SECTION – II**

**NOTE: Answer any five questions  
2 Each question carries 1 Mark**

- 5) Differentiate between secretion and excretion .mention secretives and excretes in human body
- 6) Write the functions of sympathetic nervous system and parasympathetic nervous system ?
- 7) Observe these diagrams. and answer the questions



- 1) write the blood vessels shown in the diagram ?
- 2) Write their function ?

- 8) Write the procedure of the experiment which conducted by you to understand movement of bolus in oesophagus
- 9) prepare four questions to clear your doubts on organ donation

SECTION - III (4 x 4 = 16 Marks)

10) a) Lymphatic system similar to venous system and supports to venous system “ Do you support the statement? Explain and

Elder people legs will be swollen (edema) after a overnight journey, in sitting position Without moving. What is the reason?

OR

“Human activities effect the Biodiversity and their ecosystem” support this Statement with some case studies

11) Observe the experiment and answer the following questions



- 1) What is the aim of this experiment? Mention apparatus
- 2) What is the reason for increase in water level?
- 3) What is the role of xylem in this context?
- 4) Write the precautions to be taken in this experiment

OR

Write the different types of asexual reproduction methods observed in your surroundings. Give examples each of them

12) Observe the table and answer the following questions

	<b>T</b>	<b>t</b>
<b>T</b>	<b>TT</b>	<b>Tt</b>
<b>t</b>	<b>Tt</b>	<b>tt</b>

1. What does this diagram indicate?
2. To what generation do this belong ?
3. What is the phenotypic ratio genotypic ratio
4. Mention homozygous ,heterozygous traits ?

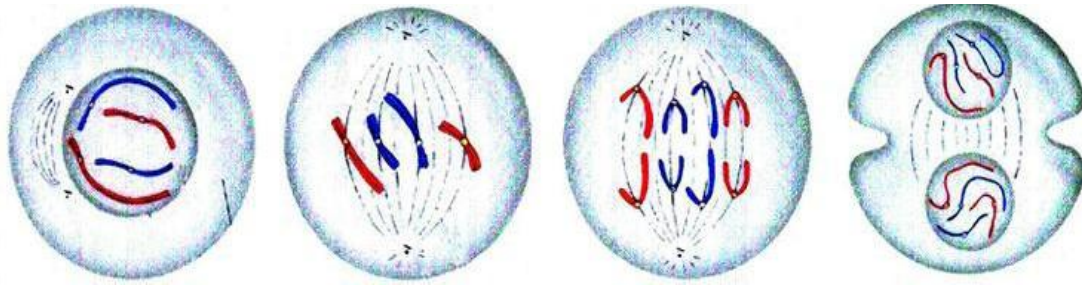
OR

Observe the following logos and explain about them



**IUPCN**

13) Answer the following questions observing given diagram



1. Name the cell division shown in the above diagram ? in which cells this division occurs ?
2. Mention different stages in this cell division
3. What is the stage in which the chromosomes are attached to spindle fibers? where the Chromosomes reaches in this stage ?
4. In which stage the cytoplasm divide and how many daughter cells forms in this division ?

**OR**

Answer the following questions observing given diagram



1. Label the diagram ?
2. Write their functions?
3. What is dental formula?
4. Which type of teeth help to bite chocolate and to tear the sugar cane ?

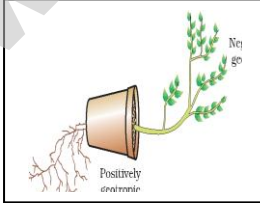
**SSC PUBLIC EXAMINAIONS - MAR 2017**  
**GENERAL SCIENCE Paper - II ( Biological Science )**

**PART - B**

**30 Minutes**

**Marks: 10**

**I Write Capital letter showing the correct answer for the following questions in the brackets 20 x 1/2 = 10**

- 14) Out of following statements which is not related to photosynthesis . ( )  
A) Van Niel formulated equation for photosynthesis .  
B) Joseph priestly discovered oxygen and coined the name  
C) Pelletier and caventi and coined the name chlorophyll  
D) Engelmann stated that photosynthesis occurred more in green light
- 15) End products in the light phase of photosynthesis... ( )  
A) water, oxygen, ATP, NADPH  
B) Oxygen, ATP,  
C), oxygen carbon dioxide  
D), ATP, NADPH, carbon dioxide
- 16) Which of the following is not a human's hormone? ( )  
A. Insulin B. Thyroxin. C Oestrogen D Cytokinine
- 17) 1. Pellagra [ ] P) Riboflavin ( )  
2. Rickets [ ] Q) calciferal  
3. Scurvy [ ] R) niacin.  
A) 1-Q, 2-R, 3-P B) 1-P, 2-Q, 3-R C) 1-R, 2-Q, 3-P D) 1-P, 2R, 3-Q
- 18) Identify right order of human respiratory. ( )  
A) Nostrils-Nasal cavity-Pharynx-Larynx-Trachea: Bronchus-Bronchioles-Alveolus: Blood  
B) Nostrils- -Pharynx- Nasal cavity -Larynx-Trachea: Bronchus-Bronchioles-Alveolus: Blood  
C) Nostrils- -Pharynx-Larynx-Trachea: Bronchus-Bronchioles-Alveolus: Blood- Nasal cavity  
D) Nostrils-Nasal cavity-Pharynx-Larynx-: Bronchus-Bronchioles-Alveolus: Blood- Trachea
- 19) Which blood vessels contain valves ? ( )  
A) Arteries C) veins D) Lymph vessels D) B and C
20. 1) Human urine contain 96% of water ( )  
2) Water is reabsorbed by proximal convoluted tubule of enthrone  
Suffers from dry skin, diarrhoea  
A. both are correct B. both are wrong C). 1 only correct D) 2 only correct
- 21)  Name of the mastic movement shown in the diagram ( )  
A) Geotropism B) photo tropism C) thigmo tropism. D) A and B
- 22) 1) Brugman observed that plant secretes some secretions into the soil ( )  
2) Apple plant secretes some secretions into the soil  
A) Both are not correct B) Both are correct c) 1 is only correct d) 2 is only correct

23). where we can see stock and scion plant parts in this vegetative propagation ? ( )

- A) Layering      B) cutting      C) Grafting      D) Budding

24) Which is not excretory organ in humans ( )

- A) Lungs      B) Skin      C) kidney      D) Heart

25) 1) Tannin - A. Pinus ( )

2) Resin - B acacia Arabica

3) Latex - C. Heave breziencis

Which one is wrongly matched?

- A. 1only      B) 2 only      C) 3only      d. None of the above

26) Mention A and B based on their features respectively ( )

S no	Feature	A	B
1	Valves	Present	Absent
2	Walls of the vessel	Thin	Thick
3	Blood	Deoxygenated blood	Oxygenated blood
4	Blood Pressure	Low	High

- a) artery ,vein      b)vein, artery      c)capillary, lymph      d)vein, lymph

27) Odd one out of the following ( )

- A) Carpel      b) stamen      c) stigma      d) ovule

28) Identify the correct order of teeth in the human oral cavity ( )

a)incisors,canines,premolars,molars

b)canines,incisors,molars,premolars

c)premolars.molars,incisors,canines

d)premolars,incisors,canines,molars

29) Identify incorrect statement regarding Charles Darwin ( )

a) Charles Darwin travelled in HMS beguile ship

b) He travelled many places including Galapagos Islands

c) Observed the variation in crows in Galapagos Islands

d) He is inspired from sir Charles and Malthus theories

30) Mention the chromosome pair in male and female respectively ( )

- A) XX, YY      B) YY, XX      C) XXX, XY      D) XY, XX

31) Cause for the variation

- A) Sexual reproduction      b) DNA defects      c) physical defects      d) A and B

32) Identify correct statement regarding ovule ( )

A) 7cells, 3groups, 8nucleous

b) 8cells, 3groups, 7nucleous

C) 3cells, 8groups, 7nucleous

D) 7cells, 3groups, 7nucleous

33) Which of the following are green house gases? ( )

- A) Carbon dioxide      b) Nitrogen dioxide      c) chlorofluorocarbons      d) all the above