20E(A)

GENERAL SCIENCE, Paper - II

(English version)

Parts A and B

Time: 21/2 Hours

Maximum Marks: 50

Instructions:

Answer the questions under Part-A on a separate answer book.

 Write the answers to the questions under Part-B on the Question Paper itself and attach it to the answer book of Part-A.

Part - A

Time: 2 Hours

Marks: 35

SECTION - I

 $4 \times 1 = 4$

NOTE:

- Answer ANY FOUR questions from the following.
- Each question carries ONE mark.
- Write the names of any two excretory organs in human beings.
- Write the names of producers and consumers in the food chain, you have observed.
- 3. Which blood vessels carry blood from heart to body parts?
- 4. Which plants in your surroundings are useful for the production of medicines?
- 5. How did you get the characters from your parents and grand-parents?
- **6.** Write the functions of Spinal-cord from the information collected from your school library and from internet.

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- NOTE: 1. Answer ANY FIVE questions, choosing atleast TWO from each Group A and B.
 - 2. Each question carries TWO marks.

GROUP - A

- 7. Explain the structure of a Chloroplast with the help of a rough diagram.
- 8. Which characters in the Pea plant are selected by Mendel, for his experiments?
- 9. What are the control measures for the eradication of mosquito population?
- 10. What will happen if a plant is placed near the window of your classroom? What is this process called as?

GROUP - B

- 11. What questions do you ask a doctor to know about different birth control methods?
- 12. How did you prepare a match-stick Stethoscope in your school?
- 13. Draw the diagram of villi in small intestine and label its parts.
- 14. How do you appreciate the role of Spinal-cord in reflex actions?

SECTION - III

 $4 \times 4 = 16$

NOTE:

- Answer ANY FOUR questions from the following, choosing atleast TWO from each group A and B.
- Each question carries FOUR marks.

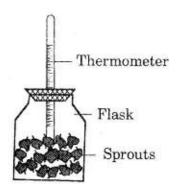
GROUP-A

- 15. What is the role of Epiglottis and Diaphragm in respiration?
- 16. What is root pressure? How is it useful to plants?

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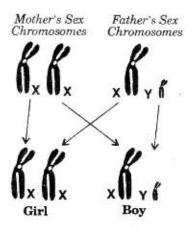
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- 17. Write the experiment of bell jar and pudina plant, performed by Priestley to prove that air plays key role in Photosynthesis.
- 18. (a) What is the aim of this experiment?
 - (b) What change do you observe in thermometer reading?
 - (c) In your opinion, where did this heat come from?
 - (d) What precaution should we take, while doing this experiment?



GROUP - B

- 19. What is Mastication? Explain about the teeth used in mastication.
- 20. Write about the 4 'R's needed for the protection and conservation of environment.
- 21. (a) If a sperm with 'X' chromosome fertilizes with an ovum with 'X' chromosome, what will be the gender of the baby?
 - (b) Who determines the sex/gender of the baby, mother or father?
 - (c) Is it correct to blame the mother for giving birth to a baby girl?
 - (d) Are all our characters resembles our parents?



22. What steps you would like to follow on your part to conserve bio-diversity?

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SECTION - IV

- NOTE: 1. Answer ANY ONE question from the following.
 - 2. This question carries ${f FIVE}$ marks.
- 23. Draw a neat labelled diagram of excretory system in human beings.
- 24. Draw the diagram of human sperm and label its parts. Write few lines about it.

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GENERAL SCIENCE, Paper-II

(English version)

Parts A and B

Time: 2½ Hours	Maximum Marks: 50
	man Mar As . 50

Instructions: Write the answers to the questions in this Part-B on the Question paper itself and attach it to the answer book of Part-A.

	-		Par	t - I	3		-
Tin	ne : 3	80 mi	inutes			Marks	. 12
No	te :	1.	Answer all the questions	9		murks	: 16
		2.	Each question carries 1/2				
		3.	Answers are to be written		•		
		4.	Marks will not be award or erased answers.	ed in	case of any over-writi	ng, re-wr	iting
I.	Wri	te the	e CAPITAL LETTER show	ving	the correct answer for	41	
	follo	owing	questions in the brackets	provi	ded against them.	20×1/2	=10
1.	Which one is the parasite among the following?				1	1	
	(A)	Yea	st	(B)	Mushroom	L	
	(C)	Cus	scuta	700000	Leech		
2.	Who	inve	ented Stethoscope?			I	,
	(A)		ie Lennec	(B)	William Harwey	Ł]
	(C)		phigi	(D)	Fabrici		
3.	The	large	est part of the brain is			_	
	(A)		e brain	(B)	Mid buri	[]
	(C)		d brain	(D)	Mid brain Cranium		
4.	Which of the following show effect on the foetus?						,
	(A)		micals in cigarette smoke.			L]
	(C)		licines	(D)	All the above.		
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5.	Tongue is a taste receptor. Which nerve helps to identify the taste?					
	(A)	6th cranial nerve.		5th cranial nerve.		
	(C)	10th cranial nerve.	(D)	Optic nerve.		80
6.	Exan	nple for renewable resource.			. [1
	(A)	Natural gas	(B)	Petrol		
	(C)	Solar energy	(D)	Fodder		
7.	What symptoms do you observe in the disease caused due to					
		leficiency of vitamin-A?	m-re-		[]
	(A)	No vision in dim light.	(B)	Lack of hungriness.		
	(C)	Can't see bright light.	(D)	Loose motions.		1
8.	A pl	ant that can survive in Sunligh	t is k	ept in shade,		
		the plant			[]
	(A)	dies.	(B)	grows well.		
	(C)	becomes short.	(D)	None of the above.		
9.	Wha	at happens, if green plants are	not tl	here on earth ?	[]
••	(A)	Living organisms will not get				
	(B) Living organisms will not get CO ₂ .					
	(C)	Living organisms will not get		12		
	(D)	All the above.	2			
10.	The	e blood pressure during walking	g and	running is	[]
10.	(A)	Normal	(B)	Less than the normal.		
	(C)	More than the normal.		None of the above.		
11	Ho	w can you identify the waste m	ateri	als in blood?	I	1
11.	(A)		(B	through urine test.		
	(C)) through blood test.		
12.	Wh	en food is present in mouth, th	e qu	antity of saliva	[]
	(A)	Transferrance 12 (12)) decreases.		
	(C)			None of the above.		

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13.	To increase ground-water levels, we should]	
	(A)	dig wells.	(B)	dig canals.			
	(C)	dig roads.	(D)	dig percolation pits.			
14.	The	primary consumer is			1]	
	(A)	Rabbit	(B)	Tiger			
	(C)	Frog	(D)	Snake			
15.	Ban	all pesticides. This means the	at		E.]	
	(A) Control on usage of pesticides.						
	(B) Prevention of pesticides.						
	(C)	Promote eco-friendly agricul	ltural p	ractices.			
	(D)	Stop bio-chemical factories.					
16.	Dise	ease caused due to the deficier	ncy of p	roteins is	I]	
	(A)	Kwashiorkor	(B)	Marasmus			
	(C)	Obesity	(D)	Anaemia			
17.	The	gestation period in man is			I]	
	(A)	330 days	(B)	20 days			
	(C)	280 months	(D)	280 days			
18.	Whi	ich of the following is called 's	econd l	orain' ?	1]	
	(A)	Brain in cranium.	(B)	Enteric Nervous system.			
	(C)	Central Nervous system.	(D)	Endocrine system.			
19.	Scie	entist who discovered the stru	cture o	f DNA is]	1	
	(A)	Watson	(B)	Crick			
	(C)	Both	(D)	None of them.			
20.	Whi	ich among the following is Soi	il conse	rvation method?	ſ]	
	(A)	Contour trenches.	(B)	Growing grass plants.			
	(C)	Crop-rotation system.	(D)	All the above.			
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П.	Fill in the blanks with	the c	orrec	t answers	3.	
	Each question carries	½ mar	$\cdot k$.			5×1/2=21/2
21.	The pH condition of Saliv	a is				
22.	Name the gland.					
	Ans				œ.	
23.	Cultivation of paddy is su	iitable	for	***************************************		areas.
24.	Identify the logo and writ	te its r	ame .			*************
	$\overline{\Omega}$					
	60					
25.	A small farmer can avoid	scarci	ty of	water by		
III.	Match the following by w	riting	the le	tter of the o	correct	answer
	in the brackets, choosing					5×1/2=21/2
	Group - A					Group - B
26.	Pituitary gland		[1	(A)	Progesterone
27.	Thyroid		[]	(B)	Adrenaline
90	7.50 4.50		r	1	(C)	FSH
28.	Ovaries		I]	(D)	Thyroxin
29.	Testis		[]	(E)	Testosterone
30.	Adrenal gland	7/2	[1	(F)	Insulin
20E	(B)				_	MARCH, 2016