Class XI Subject: English (SET B)

Time: 45 minutes M.M 50

SECTION A - READING-12 MARKS

Read the passage carefully:

Karl Benz invented the modern car in 1888 in Germany. Emile Roger worked for Benz in France. He made cars in France. By 1900, many people were building cars in France and in the U.S. The first company to build only cars was Panhard et Levassor in France. Panahard started in 1889. The Peugeot car company started in 1891 in France. In the US, France and Charles Duryea started the Duryea Motor Wagon Company in 1893. It was the first US car company. By 1902, Ransom E. Olds started the Olds Motor Vehicle Company. A year later, Heny Ford started the Ford Motor company. It produced the Cadillac. All these early modern cars burned gasoline or diesel fuels. Ford opened factories in France and Britain in 1911. Then they opened a factory in Denmark in 1923. Later, they opened a factory in Germany in 1925. Ford was one of the first manufacturers to use an assembly line. With an assembly line, factory workers could produce cars faster and safer than other production systems. Most modern cars till burned gasoline or diesel fuels: These cars cause air pollution. They get the air dirty. Now many people are looking for cleaner cars. And, many car companies are looking for cleaner fuels.

Q.1 Answer the following questions.

	(a)	Which company first built only cars?	1
	(b)	When did the Peugeot cars company start?	1
	(c)	In which year Karl Benz invented the modern car and where?	1+1
	(d)	What was the first US car company?	1
	(e)	Where did the Ford Motor company open the factory first?	1
	(f)	Whose idea was the assembly line?	1
	(g)	Find a word from the message which means 'made'.	1
1	(h)	What is fuel?	2
	(i)	What does the pollution in the air mean?	2

Section B – Writing and Grammar– 38 marks

Q.2 You recently visited an important historical monument. You were shocked to find it in a state of utter neglect Taking help from unit, 'Travel and Tourism', the clues given below and with your own ideas write a letter to the editor of a leading newspaper highlighting the poor condition of important archaeological and heritage 'sites. Point out the lack of essential services, the poor state of maintenance and its misuse by people. Give suggestions for improving the situation.

8 marks

Q.3Mobile phones are detrimental to the academic progress of students. Write a debate on it.

10 marks

Q.4Write a story in 150 - 200 words with the help of hints given below:

10 marks

'Enjoying a cup of tea while sitting on my balcony on a Sunday morning, suddenly I felt a deep pain in my chest. I thought that this was the last moment of my life. I wanted to call my daughter, my husband and everybody to say the final Good Bye, but couldn't do so'

Imagine what happened after this. Did the family know what happened or did the woman die unnoticed? Explain what were the plans and aspirations of the woman at the last moment of her life. Write an imaginary story with a suitable tide in 150-200 words.

Q.5 The following passage has not been edited. There is one error in each line. Identify the wrong one and write it with the correction in the space given. The first one has been done for you. $(1 \times 4 = 4 \text{ marks})$

Q.6Rearrange the following jumbled words to make meaningful sentences. One has been done for you as anexample. (1x2= 2 marks)

very important / facial expressions / to us / are

Example: Facial expressions are very important to us.

- (a) someone easier can see you it is to understand
- (b) there / we can mould / of other ways / dozens / our faces / are

Q.7In each of the following questions ONLY ONE WORD is correctly spelled. Write the correct words.

(1 x 4 =4 marks)

(A)	(a) twelvth	(b) twelfth	(c) vaccum	(d) bouquette
(B)	(a) cigarette	(b) etiquete	(c) eeri	(d) comittee
(C)	(a) tution	(b) grammer	(c) tuition	(d) seperation
(D)	(a) truely	(b) millenium	(c) harrassment	(d) chauffeur

MANAGEMENT APTITUDE TEST

Time: 45 Minutes MM: 50

1 MARK QUESTIONS

- 1. What is the limit of minimum and maximum number of partners in a partnership firm as per new amended Act 2013?
 - A. 2 and 20
 - B. 2 and 50
 - C. 10 and 100
 - D. 5 and 100
- 2. Pixel mobile phone is introduced by which brand?
 - A: Apple
 - B. Mi
 - C. Google
 - D. Microsoft
- 3. In which type of firm there is single seller?
 - A. Monopolistic competition
 - B. Perfect competition
 - C. Monopoly
 - D. Oligopoly
- 4. What is FII?
 - A. Foreign initial investment
 - B. Foreign industrial investment
 - C. Foreign indirect investment
 - D. Foreign introductory investment
- 5. Who is finance minister of India?
- 6. Which was the 1st public sector bank of India?
- 7. Who can issue the currency coins of India?
- 8. Which sector provides Insurance services?
 - A. Primary
 - B. Secondary
 - C. Tertiary
 - D. All of them
- 9. RBI was established in which year.
 - A. 1934
 - B. 1935.
 - C. 1936.
 - D. 1937
- 10. IDBI is which kind of bank.
 - A. Public sector bank
 - B. Private sector bank
 - C. Joint sector bank
- D. None of them

	D. i	none of them	a = 2 g			
	Σ, .					
	13 WH	no is the CEO of Amazon.				
		Jack ma				
		Kim long	9	*		
		Jeff Bezos				
		Bill Gates				
	D.	Bill Gates				
	14 W/I	no is the present governer of F	RRI			
		Urjit Patel				
		Raghuram Rajan				
		H.V. Kamath				
		Arvind Sbhramaniam				
	D.	Alvilla Sollianianiani				
	15 W	hich is the new indirect taxation	on bill passed in 2016			
		GST	V. V. P. I. V. P. V. P. I. V.			
		FDI				
	C.					
		None of these				
	D.	None of these				
	16 Th	ne planning commission has b	een replaced by			
		Niti Aayog.	1			
		Infrastructure commission.				
		Law Commission.		in his edger		
1		Finance Commission				
	D.	i manee commission				
	17 W	ho is the richest person in the	world as per Forbes list	2018?		
	Α.	Warren Buffett.				
		Bill Gates.				
		Mukesh Ambani				
		Jeff Bezos				
	D.	Jen Bezos				
	18. M	otorola is purchased by which	of these companies:			
		Google				
		Microsoft				
		Lenovo				
		HTC.				
	~.					
			and the state of	. 0 1		
	19. In	a self help group, most of the	e decisions regarding sav	ing & loan acti	ivities are taken by:	-
		Banks				
	В.	Group members				
	C.	Ngo's				
	D.	Government	26.			
		•				

11. India is considered to beA. Capitalist economyB. Socialist economyC. Mixed economyD. None of them

A. Bank of baroda

C. Punjab national bank

B. ICICI

12. Which bank is known as International bank of India

	20. Banks normally use m A. Setting up new bran	nches	eir deposits for:-		
	B. Paying interest on I	oans	*		
	C. Paying taxes				
	D. Extending loans				
	21. A company that owns	or controls produc	etion in more than one	nation is called:-	
	A. MNC				
	B. Joint stock Co.C. Global Co.				
	D. None of these.				
	22. What is the full form of	f CDD	2 H 2 5 7 2	1 411	
	A. Central Reserve Ra				
	B. Central Refer rate	.10			
	C. Cash Reserve Ratio				
	D. Cash Reserve Rate				
	23. WTO stands for:-				
	A. world trade organiza	ation			
	B. world trade outsour				
	C. world terminal orga				
	D. world tourist organi	zation			
	24. Apex bank for agricult	ural sastar is:			
	A. ICICI	urar sector is:-			
	B. RRB				
	c. LDB				
	D. NABARD				
/	25. By selling an article for				
	(a) Rs. 8	(b) Rs. 1	0 (c) Rs.	3.33 (d) Rs.	6.67
	2 MARKS QUESTION	NS			
	26. A mobile dealer sells tw	o mobiles for Rs.	5000 each, one at a ga	nin of 20% and another	at a
	loss of 20%. Find out th	e percentage of pro	ofit or Loss of his tota	l sales.	
	(a) 10% Profit	(b) 4% Loss	(c) 4% Profit (d)	No loss no Profit	
	27. If the cost price of a pro-	duct is Rs. 40 and	calling price is Do. 50	Find out the managets	
	of profit.	auct is its. 40 and	selling price is Rs. 30	. Find out the percenta	ge
	(a) 35%	(b) 30%	(c) 25%	(d) 15%	
	28. Buying an article for Rs.			ut selling price.	
	(a) Rs. 90	(b) Rs. 86	(c) Rs. 96	(d) Rs. 106	
	29. A Book seller purchased	a Accountancy be	ook for Rs. 300 and so	old at a Loss of 10% F	ind
	out the selling price.		To Too Doo und St	at a 2000 of 10/0, I	1110
	(a) Rs. 280	(b) Rs. 370	(c) Rs. 270	(d) Rs. 170	

	oes a fruit seller gains th	ne selling price of 30 ma	angoes. Find his gain
percentage. (a) 35%	(b) 30%	(c) 25%	(d) 15%
31. A retailer makes a production (a) Rs. 600	rofit of 10%, if his sellin (b) Rs. 500	g price is 440, Find the (c) Rs. 300	cost price. (d) Rs. 400
how much a busine	it a businessman is requi ssman will invest? (b) Rs. 30000	red to invest Rs. 60,000 (c) Rs. 22000	(d) Rs. 21000
(a) Rs. 20000	(b) Rs. 30000	(c) Rs. 22000	
33. A, B and C are par Rs18000. Find out (a) 3:2:2	tners, sharing profit in the exact ratio between (b) 3:2:1	ne ratio of ½: ½: ½: ½. The them for sharing profit. (c) 2:3:1	e profit of the firm was (d) 1:3:2
3 MARKS QUEST	TIONS		
34. What is the cost of (I) 500 Grams of (ii) 350 Grams of (iii) 250 Grams of	f peas Rs. 14	he following vegetable	
35. The cost of 1 kg o (a) Orange Rs. 35	f each of the fruits is given (b) Apples Rs. 80	ren. (c) Mango I	Rs. 50
(ii) What will 250	chase 200 gm of Orange gm cost of Apples? 0 gm cost of Mangoes?	, what amount you will	pay for it?
36. Find out 20% of 1700 35% of 3000 05% of 75000			

Time- 45 Minutes

CLASS-XI

MM-50

General Instruction: Attempt all the questions.

- 1. Question 1-5 in section A carrying 1 mark each.
- 2. Question 6-10 in section B carrying 2 marks each.
- 3. Question 11-17 in Section C carrying 5 marks each.

SECTION-A

1. For some integer q, every odd integer is of the form

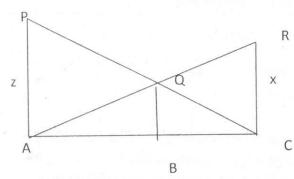
(a) q (b) q+1 (c) 2q (d) 2q+1

- 2. $n^2 1$ is divisible by 8, if n is
 - (a) an integer (b) a natural number (c) an odd integer (d) an even integer
- 3. The product of a non zero rational and irrational number is
 - (a) always irrational (b) always rational (c) rational or irrational (d) one
- 4. If one of the zeroes of the quadratic polynomial (k-1) $x^2 + kx + 1$ is -3, then the value of k is
 - (a) $\frac{4}{3}$ (b) $\frac{-4}{3}$ (c) $\frac{2}{3}$ (d) $\frac{-2}{3}$
- 5. If the zeroes of the quadratic polynomial $ax^2 + bx + c$, $c \ne 0$ are equal then
 - (a) c and a have opposite signs
- (b) c and b have the opposite signs
- (c) c and a have the same sign
- (d) c and b have the same sign

SECTION-B

- 6. Find the distance of the point (2,3) from the x- axis
- 7. A pole 6 m high casts a shadow $2\sqrt{3}$ m long on the ground, then find the Sun's elevation
- 8. Find 10th term of the AP; 5, 8, 11, 14, -----
- 9. In an AP, if d = -4, n = 7, $a_n = 4$. Find a.
- 10. If $\triangle ABC$ is right angle at C, then find the value of $\cos(A+B)$.

- 11.If p, q are zeroes of polynomial (x) = $2x^2$ 7x+ 3, find value of p^2 + q^2
- 12 Solve using cross-multiplication method : 2x = 5y + 4; 3x 2y + 16 = 0
- 13 For what value of k the equation $4x^2$ $2(k+1) \times +(k+1) = 0$ has real and equal roots.
- 14 In the given figure, PA, QB and RC are perpendicular to AC. Prove that $\frac{1}{x} + \frac{1}{z} = \frac{1}{y}$



- 15 Find a relation between x and y such that the point (x, y) is equidistant from the point (3,6) and (-3,4).
- 16 The angle of elevation of the top of a tower 30 m high from foot of another tower in the same plane is 60°. And the angle of elevation of the top of the second tower from the foot of the first tower is 30°. Find the distance between the two towers and also the height of the other tower.
- 17 A shopkeeper buys some books for Rs 80. If he had bought 4 more books for the same amount, each book would have cost Rs 1 less. Find the number of books he bought.

CHEMISTRY (Set I) CLASS- XI

Time: -	45 minutes MM	: 50
	nstructions: -	
(i) (ii) (iii) (iv) (v)	Attempt all questions. Question number of 1 to 5 is of one mark each. Question number of 6 to 10 is of two marks each. Question number of 11 to 15 is of three marks each. Question number of 16 to 19 is of five marks each.	
(*)	Question number of 10 to 17 is of five marks each.	
1.	Name the brown coloured gas evolved when lead nitrate crystals are heated in a contest tube.	dry (1)
2.	Why is tartaric acid added into baking soda to get baking powder?	(1)
3.	An alloy has low melting point and is, therefore, used for welding electric wires together. Name the alloy and write its constituents.	(1)
4.	Which element exhibits the property of catenation to maximum extent and why?	(1)
5.	Why do isotopes of an element show similar chemical properties?	(1)
6.	Give reasons for the following: - (i) All decomposition reactions are endothermic reactions. (ii) Respiration is an exothermic reaction.	(2)
7.	State what happens when: - (i) Gypsum is heated at 373 K. (ii) Excess of carbon-dioxide gas is passed through lime water.	(2)
8.	Give an example of a metal and non-metal which is liquid at room temperature.	(2)
9.	What is the difference between two consecutive members in a homologous series alkanes in the terms of (i) molecular mass (ii) number atoms of elements.	s in (2)
10	O. Three elements 'A', 'B' and 'C' having atomic numbers 11, 7 and 6 respectively with oxygen to form their oxides. (i) Arrange these oxides in increasing order of basic nature. (ii) Give reason for your answer.	react their (2)
11	. Classify the following reactions into different types: - (i) AgNO ₃ (aq) + NaCl (aq)	(3)
12	2. What is rust? How is rust formed. Describe the role of zinc to prevent the rusting iron.	g of (3)
13	3. What happens when (write balanced chemical equation only): - (i) Ferric oxide is heated with aluminium powder. (ii) Zinc carbonate is heated. (iii) Mercuric sulphide is strongly heated with oxygen.	(3)

 14. Name the functional groups present in the following organic compounds: - (i) CH₃COCH₂CH₂CH₂CH₃ (ii) CH₃CH₂CH₂COOH 	
(iii) CH ₃ CH ₂ CHO	(3)
15. What are soaps? Why is a soap solution in water appears cloudy? Why soaps effective in hard water?	are not (3)
16. Identify the acids and bases from which the following salts are obtained: - (i) Potassium sulphate (ii) Sodium nitrate (iii) Ammonium chloride (iv) copper sulphate (v) sodium carbonate.	(5)
17. What do you mean by ionic compounds? Explain any four properties of ionic compounds.	(5)
18. State Modern periodic law. Give any four limitations of Mendeleev's periodic table.	(5)
19. Complete the following chemical reactions:- (i) R ₂ C = CR ₂ + H ₂ (Ni/Heat)→ (ii) CH ₃ COOH + NaOH→ (iii) CH ₃ CH ₂ OH (Hot &Conc. H ₂ SO ₄)→ (iv) HCOOH + Na→ (v) CH ₃ CH ₂ OH (Hot &Alkaline KMnO ₄)→	(5)
XXXX	

Subject: Physics Class: XI

Max. Marks: 50 Duration: 45min.

INSTRUCTIONS:

(1) Q.1 to Q.25 are Multiple choice questions and each question carry one marks.
(2) Q.26 to Q.30 are short answer type questions and each question carry type marks.

(3)	Q.20 to Q.30 are short answer type questions and each question carry two marks. Q.31 to Q.35 are short answer type questions and each question carry three marks.
	Section -A
1.	
	(a) Ammeter (b) galvanometer (c) voltmeter (d) potentiometer
2.	When one-unit electric charge moves from one point to another point in an electric circuit, then the amount of work done in joules is known as? (a) Electric current (b) electric resistance (c) electric conductance (d) potential difference.
3.	The resistance of a conductor is directly proportional to its: (a) area of cross-section (b) density (c) melting point (d) length
4.	The purpose of a rheostat is: (a) Increase the magnitude of current only (b) Decrease the magnitude of current only (c) Increase or decrease the magnitude of current (d) None of these
5.	Point to be kept in mind for verification of Ohm's Law is: (a) Ammeter and voltmeter should be connected in series (b) Ammeter should be connected in series and voltmeter in parallel (c) Ammeter should be connected in parallel and voltmeter in series (d) Ammeter and voltmeter should be connected in parallel
6.	A battery of 6V is connected in series with resisters of 0.1 ohm, 0.15 ohm, 0.2 ohm, 0.25 ohm and 6 ohm. How much current would flow through the 0.3 ohm resistor? (a) 0.895A (b) 2.22A (c) 1A (d) none of these
7.	A fuse wire is inserted in a?
, .	/ \ Y · · ·
	(a) Live wire (b).In the neutral wire (c) In the earth wire (d)May be connected in any line.
8.	Focal length of plane mirror is
	(a) At infinity (b) Zero (c) Negative (d) None of these
9.	Power of the lens is -40, its focal length is (a) 4m (b) -40m (c) -0.25m (d) -25m
10.	A concave mirror gives virtual, erect and enlarged image of the object, where is the object placed

(b) Between F and C (c) Between P and F (d) At F (a)At infinity

11. In optics an object which has higher refraction(a) Optically rarer (b) Optically dense	etive index is called r (c) Optical density	(d) Refractive index
12. The optical phenomena, twinkling of states(a) Atmospheric reflection(c) Atmospheric refraction	rs, is due to (b) Total internal r (d) Scattering of light	reflection ght
13. The unit of power of lens is (a)Metre (b)Centimeter	(c)inch	(d) m ⁻¹
14. What should be the core of an electromag (a) soft iron (b) hard iron (c) rusted	net? d iron (d) none of	fabove
15. In all the electrical appliances, the switched (a) live wire (b) earth wire (c) r	es are put in the neutral wire (d) al	l of above
 (a) there must be a relative motion be (b) there must be a relative motion be (c) there must be a relative motion be (d) there must be a relative motion be 	etween the galvanome etween galvanometer a	and generator
 17. No force acts on a current carrying condu (a) perpendicular to the magnetic fie (b) parallel to the magnetic field (c) far away from the magnetic field (d) inside a magnetic field 	Id	
18. What happens to the current in short circles (a)reduces substantially (b).do (c) increases heavily (d) va	rcuit? es not change ry continuously	
19. An alpha particle is diverted towards we field is magnetic. What will be the direction (a) Towards south (b) towards ea	vest is deflected towar ction of field? ast (c) downward	ds north by a field. The (d) upward
20. Which method is used to produce electr(a)By boiling the water to produce stear(c) By running dynamo by kinetic ene	II (b) Dy Ioinzin	5
21. Which of the following is the odd one of (a) Petroleum (b) Hydro electric	out? city (c) Coal (d)) CNG
22. Which of the following is a component (a) Methane (b) LPG	of bio-gas? (c) CNG (d) Hydrogen sulphide
23. Which energy source is the largest so (a) CNG (b) LPG	urce used in India? (c) Coal (d) Bio Gas

SUBJECT – BIOLOGY Set-1

Time - 45 Min.

a-one male gamete

MM - 50

Note. - Question no. 1 to 20 carry one mark each. Question no. 21 to 27 carry two marks each. Question no. 28 to 29 carry three marks each. Question no.30 carry ten marks. Q1. In which part of the alimentary canal receives pancreatic juice from the pancreases? a-stomach b-small intestine c-large intestine d-none of these Q2. Liver contains an enzyme calleda .amylase b. lipase c. a and b d. None of these Q3. Which among the following has specialized tissue for conduction of water? [i] Thallophyta [ii]Bryophyta [iii] Pteridophyta [iv] Gymnosperm a. [i]and[ii] b. [ii] and [iii] c. [iii] and [iv] d. [i]and[iv] Q4- The filtration unit of kidney is called? a-ureter b-urethra c-nephron d-neurons Q5. Which part of central nervous system control reflexes? a. spinal cord b. brain c. hormone d. none of these Q6. Elephantiasis is caused by a. Wuchereria b. Pinworm c. Planarians d. Liver Flukes Q.7.-Which of the following is a plant hormonea- Cytokinin b- Insulin c-Thyroxine d- Lipase Q-8. Which of the following is analogous organ of a sweet potato a-potato b. onion c turnip d all of these Q-9-Covering of heart isa-Pleura b- Pericardium c- Epiglotis d- Capsule Q-10The opening and closing of stomatal pore depends upon a-oxygen b-temperature c-water in guard cells d-mesophyll Q-11- Iodine is necessary for the synthesis of which hormone? a-Adrenaline b-Thyroxine c-Auxin d-Insulin Q- 12-Exocrine gland isa-adrenal b-thyroid c-pancrease d-salivary gland Q-13-On germination each pollen grain produces-

b-two male gamete c- three male gamete d- four male gamete

Q-14-Fertilization in flowerin a-Embryo	g plants produces b-Endosperm	c-Nucellus	d-both A and B	
Q-15-Zygote is- a-always haploid	b-Always diploid	c-always triploid	d-none of the above	
Q-16-Flow of energy in an ec a-no specific direction	osystem is always- b-multidirectional	c-bidirectional	d- unidirectional	
Q-17-An IUCD device is a-Copper T	b-Condom	c-Cervical cap	d-Vasectomy	
Q-18-Measurment of water pa-Coliformcount	oollution is made by – o-BOD	с-рН	d-All the above	
Q-19-Which part of alimenta a-Stomach b	ary canal receives bile ju -Small intestine	ice from the liver- c-Large intestine	d-Oesophagus	
Q-20-Which of the followin a-Cow dung b-	g is a non-biodegradable Kitchen waste	e waste – c-Plastic	d-Mannure	
Q-21-Name the main modes of asexual reproduction Q-22-What is the main product of aerobic respiration? Q-23-What is the role of sensory neuron? Q-24-Name any two plant hormones? Q-25-Name the two methods of surgical conteraceptive method? Q-26-How many types of chromosomes in man? Q-27-Write two method for prevention of STD? Q-28-What are Homologous organs? How do they provide evidence in support of evolution? Q-29-Give any four reasons for STDs. Q-30-What changes can you make in your habits to become more eco friendly?				
Q-30-What changes can yo	ou make in your naons o			

- 24. The amount of light entering the human eye is controlled by (a) Ciliary muscles (b) Pupil
 - (c) Cornea (d) Iris
- 25. The part of the eyes refracts light entering the eye from external objects?

(a) Lens

- (b) Cornea
- (c) Iris
- (d) Pupil

Section -B

- 26. The MCB of a Rupa's room is tripped and keeps on tripping again and again. If it is a domestic circuit, what could be the reason of this phenomenon?
- 27. Difference between short circuiting and overloading.
- 28. Why is tungsten used in bulbs but not in fuse wires?
- 29. Name two safety measures commonly used in electric circuits and appliances.
- 30. List three energy sources that are considered to be inexhaustible. State one reasons in support of your answer.
- 31. Why is there so much emphasis on changing over from petrol/diesel driven automobiles to CNG driven vehicles.
- 32. Why do you take time to find object when you enter in dim lighted room from outside in the sun?
- 33. When we see any object through the hot air over the fire, it appears to be wavy, moving slightly. Explain.
- 34. Show an activity to demonstrate the direction of the magnetic field generated around a current carrying conductor.
- 35. Calculate the area of cross section of a wire of length 2m, its resistance is 25Ω and the resistivity of material of wire is $1.84 \times 10^{-6} \Omega m$.