Time: 3 hrs.

FIRST TERM EXAMINATION, 2018

BUSINESS STUDIES

10.09.18 M.M.:90

Class: XI

General Instructions:

1. 2. 3. 4.	Answer to questions carrying 1 mark may be from one word to one sentence. Answer to questions carrying 3 marks may be between 50 to 75 words. Answer to questions carrying 4-5 marks may be about 150 words. Answer to questions carrying 6 marks may be about 200 words. Attempt all parts of a question together.	
1 2	1	(1) (1)
3		(1)
4	In which type of insurance, insurable interest must exist both at the time of insurance and at the time of loss.	(1)
5	. Which type of risk means chance of loss with possibility of gain?	(1)
6		(1)
	Identify the limitation of Sole Proprietorship business being discussed above.	
. 7		(1)
8	. What is Hull Insurance?	(1)
9	A factory owner gets his stock of goods insured but he hides the fact that the electricity board has issued him a statutory warning letter to get his factory's wiring changed. Later on, the factory catches fire due to short circuit of wiring.	
	a) Identify the Principle of Insurance violated and explain the same.	(1+1)
	b) Can he claim compensation for the same? Justify.	(1)
10.		(4)
	a) Identify the type of partnership discussed above and explain the same.	(1+1)
	b) Name any other type of partnership in this category.	(1)
-11	LIC of India is the largest insurance company in India. It is headquartered in Mumbai. It was founded in the year 1956 when the Parliament of India passed the Life Insurance of India Act that nationalised the private insurance industry in India. Over the years it has become a pioneer in the insurance sector.	
	a) LIC of India is classified as which form of public sector enterprise.	
	b) Was it necessary for the Parliament to pass the LIC of India Act for its formation? Explain the form of enterprise.	(1+2)
12.	, , , , , , , , , , , , , , , , , , , ,	(1+2)
13.	y y y y y y y y y y y y y y y y y y y	
	protect natural resources. In this respect specify certain steps (min. two) that you will take	
	to protect- environment. Also give the full form of CSR.	(2+1)
14.	,	
1 <i>5</i>	type of trade. Explain the other types of trade in this category.	(1+2)
15. 16.	5,1,1,1	(2+2)
10.	Nestle S.A. is a Swiss International Food and Drink company head quartered in Vevey, Switzerland. Nestle has many brands with a wide range of products across a number of markets around the word, including coffee, bottled water, milk shakes and other beverages, breakfast cereals, infant foods, healthcare, nutrition, seasonings, soups, sauces, frozen foods and pet food etc.	
	In the context of the above case:	
	a) What form of enterprise is Nestle?b) State any three features of the form of enterprise identified in part (a) of the question.	
	Page 1 of 2	(1+3)
	FORE TOLE	

17.	Explain any four clauses of the Memorandum of Association.	(4)
18.	Roshni Ltd. is a Pune based Indian multinational company engaged in designing,	(2)
	manufacturing and marketing of products related to power generation, transmission and	
	distribution. It has also set up a factory for manufacturing solar lanterns in a remote	
	village as there was no reliable supply of electricity in rural areas.	•
	a) Identify and explain the type of objective of business being fulfilled by Roshni Ltd.	•
	b) Highlight two more objectives apart from the ones mentioned in the above case.	
1.0	c) Name any two values which the company wants to communicate to the society.	(2+1+1)
19.	Britannia Industries Ltd. is committed to help secure every child's right to growth and	
	development through good food everyday. The company is working in partnership with	
	Global Alliance for Improved Nutrition (GAIN) and the Nandi Foundation to supply iron	
	fortified Tiger Biscuits to supplement the Mid-Day Meal Program in schools. In keeping	
٠.	with its core essence of 'Swasth Khao Tan Man Jagao', the company constantly strives to	
	find sustainable opportunities to drive home the message of nutrition and good food	
	habits among children at the night age.	
	In context of the above case:	
	a) Identify and explain the kind of social responsibility being discharged by Britannia	
	Industries Ltd.	
	b) Briefly explain any two other kinds of social responsibilities.	(2+2)
20.	Compare Business, Profession & Employment on the basis of:	. ,
	a) Qualification b) Reward or Return	
	c) Capital Investment d) Risk	
	e) Transfer of Interest	(5)
21.	Sparkles Pvt. Ltd. was promoted in the year 2000 by a group of four friends. As business	1,5
	of the company has grown considerably over the years, its management is now planning	. :
	to convert it into a public company and raise funds in next six months to finance its future	
	expansion plans in retailing.	
	In the context of this case:	
	a) State any four privileges that the company will have to forgo as a private company	
	after conversion.	
	b) State any two values that should not be ignored by the promoters of this company.	(4+1)
22.	To overcome the difficulties faced by public in public transport system, the government	(11-)
	of India started the METRO project in which the government involved private sector	
	participation to get the benefits of efficiency of private sector. The project was a great	
	success as lakhs of people are enjoying the metro service to move from one place to	
	another.	
	a) Identify and explain the type of enterprise mentioned in the above para.	
	b) Give any three features of the type of enterprise identified in (a).	(0.12)
23.	Explain the various functions performed by Commercial Banks.	(2+3)
24.	Explain Social Responsibility of Business. Why do the enterprises need to adopt pollution	(5) (14.5)
	control measures?	(1+5)
	OR	
	Explain the responsibility of business towards Government or Community.	(6)
25.	Explain the different Principles of Insurance.	(6)
40.	OR	(6)
26.	What is Banking? Explain the different types of accounts that can be opened in a Bank.	(1+5)
20.	What is Business Risk? Explain the different causes off business risk.	(1+5)
	OR	4.0
27	Explain in brief the different types of Industries.	(6)
27.	What is a Partnership Deed? Explain in brief the different types of partners.	(1±5).
	OR	
	Explain the following terms:	(1½×4)
	a) Perpetual succession b) Karta	
	c) Articles of Association d) Minimum Subscription	

DELHI PUBLIC SCHOOL, BHILAI (C.G.) FIRST TERM EXAMINATION, 2018

Time: 5 hrs. FIRST TERM EXAMINATION, 2018 Class: XI CHEMISTRY	10.09.18 M.M.:70
General Instructions:	
1. All questions are compulsory.	
2. Question Nos. 1 to 5 are one mark questions.	
3. Question Nos. 6 to 10 are two marks questions.	
4. Question Nos. 11 to 22 are three marks questions.	
5. Question No. 23 is four marks question.	
6. Question Nos. 24 to 26 are five marks questions.	
1. State 'Law of Multiple Proportion'.	(1)
2. What is the physical significance of $\psi \& \psi^2$?	(1)
3. What do you understand by isoelectronic species? Name a species that will be isoelectronic with F	
4. Write the Lewis dot structure of O₃ molecule.	(1)
5. What is Acid rain? Name one gas responsible for causing acid rain.	(1)
6. Calculate the wavelength and frequency of a light wave whose period is 2.0×10^{-10} S.	(2)
7. Give electronic configuration of (a) Cr^{3+} & Fe (Z of $Cr = 24$ & Z of Fe = 26)	(2)
8. Calculate the mass of nitric acid in moles per litre in a sample which has a density, 1.41g ml ⁻¹ and m	
percent of nitric acid in it being 69%. [Gram Molar Mass of HNO ₃ = 63g]	(2)
9. What would be the IUPAC name and symbol for the element with atomic number 120? OR	(2)
What is the oxidation state and covalency of Al in $\left[AlCl(H_2O)_6\right]^{2+}$?	
10. Which out of NH ₃ and NF ₃ has higher dipole moment and why?	(2)
11. (a) Define hybridisation.	(3)
(b) Draw orbital diagrams to show hybridisation in ethane molecule (C_2H_6) and ethene (C_2H_4) mole	
12. Dinitrogen and dihydrogen react with each other to produce ammonia according to the chemical equal equ	
$N_2(g) + H_2(g) \rightarrow 2NH_3(g)$ (i) Colombia the sum of sum is a large 152 00 × 10 ³ size	(3)
(i) Calculate the mass of ammonia produced if 2.00 × 10 ³ g dinitrogen reacts with 1.00 × 10 ³ g dihyd	rogen.
(ii) Which reactant would remain unreacted and what would be its mass?	
(iii) Which reactant would remain unreacted and what would be its mass?	
[Gram At. masses are: $N \rightarrow 14g$, $H \rightarrow 1.008g$]	(3)
13. Calcium carbonate reacts with aqueous HCl according to the equation:	(3)
$CaCO_3(s) + 2HCl(aq) \rightarrow CaCl_2(aq) + CO_2(g) + H_2O(l).$	
What mass of CaCO ₃ is required to react completely with 25ml of 0.75MHCl?	
[Gram atomic masses are Ca \rightarrow 40g, C \rightarrow 12g, O \rightarrow 16g & Cl \rightarrow 35.5g]	
14. An ion with mass number 56 contains 3 units of positive charge and 30.4% more neutrons than elec-	
Assign the symbol to this ion.	(3)
15. Indicate the number of unpaired electrons in (a) $_{15}P$ (b) $_{14}Si$ (c) $_{24}Cr$	(3)
\mathbf{OR}	
How many electrons in an atom have the following quantum numbers:	
(a) $n = 4$, $m_s = -\frac{1}{2}$ (b) $n = 3$, $l = 0$ (c) $n = 3$, $m_s = +\frac{1}{2}$	
16. A sample of drinking water was found to be contaminated with chloroform (CHCl ₃). The	e level of
contamination was 15 ppm (by mass).	(3)
(i) Express this in percent by mass.	ent projects
(ii) Determine the molality of chloroform in the water sample.	
17. Determine the molecular formula of an oxide of iron in which the mass percent of iron and oxyge	n are 69.9
and 30.1 respectively. Given that the molar mass of the oxide is 159.8 g mole ⁻¹ .	
(At.mass: Fe =56, O=16)	(3)
18. (i) The energy associated with the first orbit in the hydrogen atom is $-2.18 \times 10^{-18} J$ atom. What is	the energy
associate with the fifth orbit?	(3)
(ii) Calculate the radius of Bohr's fifth orbit for hydrogen atom.	
19. (a) On the basis of quantum numbers, justify that the sixth period of the periodic table shoul	
elements.	(3)
(b) State Modern Periodic Law	

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20. Which element in the following pair would have a more negative electron gain enthalpy and why? (a) O or F (b) F or Cl	(3)
21. (a) Although both CO ₂ and H ₂ O are triatomic molecules, the shape of H ₂ O molecule is bent while that	of CO ₂
is linear. Explain this on the basis of dipole moment.	(3)
(b) Draw resonating structures of CO_3^{2-} .	
22. (a) On the basis of VSEPR theory explain the structure of (a) PCl ₅ (b) SF ₄ . (b) Define Hydrogen bond.	(3)
23. An ozone layer is present at a height of 25-30km from earth surface which protects us from UV radiat	ion. A
hole is the ozone layer is created due to human activity.	(4)
Answer the following questions:	
(i) Which activity has been causing ozone layer?	
(ii) What is the most serious effects of ozone hole?	
(iii) What has been done to prevent ozone depletion?	
(iv) Give harmful effects of CO ₂ .	
24. (a) State Pauli's Exclusion principle.	(5)
(b) Show that the circumference of the Bohr orbit for hydrogen atom is an integral multiple of the de l	Broglie
wavelength associated with the electron moving around the orbit.	
(c) Draw shapes (boundary surfaces) of the following orbitals (a) $3dz^2$ & (b) $3d_{x^2-y^2}$	
OR	
(a) State Hund's Rule of maximum multiplicity.	
(b) If the velocity of the electron in Bohr's first orbit is $2.19 \times 10^6 \mathrm{ms}^{-1}$, calculate the de Broglie wavel associated with it.	ength
(c) (i) What shell would be the first to have a g-subshell?	
(ii) How many orbitals will be possible in a g-subshell?	
25. (a) Explain why cations are smaller and anions are larger in radii than their parent atoms.	(5)
(b) Would you expect the second electron gain enthalpy of O as positive, more negative or less negative	ive than
the first? Justify your answer.	
(c) Which of the following species has the largest and the smallest size? Mg, Mg ²⁺ , Al, Al ³⁺ . OR	
(a) How would you explain the fact that the first ionization enthalpy of sodium is lower than that of magnesium but its second ionization enthalpy is higher than that of magnesium?	
(b) The increasing order of reactivity among group 1 elements is Li < Na < K < Rb < Cs where as the	at of
group 17 is F>Cl>Br>I. Explain.	
(c) Show by a chemical reaction with water that Cl_2O_7 is an acidic oxide.	
(c) Show by a chemical relational with water state 5125, is the arriver state 5125, is the arriver state of the state of t	
26. (a) Distinguish between a sigma bond and a pi bond.	(5)
(b) Compare the relative stabilities of the following species by calculating	g their
bond order: O_2 , O_2^+ , O_2^- , O_2^{2-}	
(c) Use molecular orbital theory to explain why the Be ₂ molecule does not exist. OR	
(a) Which hybrid orbitals are used by carbon atoms in the following molecules?	
(i) CH_3CH_2OH (ii) $CH_3 - CH = CH_2$	1
(b) Compare the relative stabilities of the following species by calculating their bond order:	
$N_2, N_2^+, N_2^-, N_2^{2-}$	
(c) Why are the axial bonds longer than equatorial bonds in PCl ₅ ?	
(c) with the first notice tought than education of notice in 1 0151	

Page 2 of 2

DELHI PUBLIC SCHOOL, RISALI, BHILAI (C.G.)

First Terminal Examination, 2018

Engineering Graphics

Date: 19-09-2018

Time: 3.00 Hrs

Class: XI

Max. Marks: 70

General Instructions:

- i. Attempt all questions.
- ii. Internal choice is given in some questions.
- iii. Use both side of drawing sheet if required.
- iv. All dimensions are in mm.
- v. Missing and mismatching dimension if any may be suitably assumed.
- vi. Follow the SP:46-2003 revised codes with first angle method of projection.
- vii. Give your answer according to question.
- Q1. Write the following sentence in single stroke capital letters of 10mm letter height, "Delhi Public School Bhilai" (5)

 Q2. What is Dimensioning? Explain different types of dimensioning ways or methods with
- suitable drawing. (5)
- Q3. Construct a quadrilateral PQRS with PQ=45mm, QR=55mm, RS=40mm, PS=60mm, PR=70mm. (5)
- Q4. To draw a tangent to a circle of radius 35mm from a given point M, 65mm from the centre. (5)
- Q5. Draw a given rhombus ABCD, whose each side is 55mm and inscribe a circle in it. (5)
- Q6. Draw the involute of a circle whose diameter is 40mm. (9)

OR

Draw a helix of a circle whose diameter is 50mm and the pitch is 38mm.

- Q7. Draw the projections of the following points on same XY line, (2×4)
 - a) B, 20mm above HP and 25mm in front of VP.
 - b) D, 25mm below HP and 15mm behind VP.
 - c) E, 15mm above HP and 10mm behind VP.
 - d) F, in the VP and 20mm above HP.
- Q8. A straight line MN of 28mm length has its one end M 10mm from HP and 15mm from the VP. Draw the projections of the line if it is parallel to VP and inclined at 300 to HP. Assume the line to be located in each of the four dihedral angles by turn.

 (2½×4)
- Q9. A regular hexagon ABCDEF of side 30mm is parallel to VP. The two opposite parallel side of hexagon are perpendicular to HP. The center of the plane figure is 40mm above HP and 20mm in front of VP. Draw the front view, top view and side view of the regular hexagon. (8)
- Q10. A pentagonal prism having 20mm edges at its base and axis of 70mm length is resting on one of the edges of its base with its axis parallel to VP and inclined at 300 to the HP. (10)

FIRST TERM EXAMINATION, 2018

ECONOMICS

19.09.18 M.M:80

General instructions:

All the questions are compulsory.

Class: XI

Time: 3 hrs.

- > 1 mark questions should be answered in one sentence or one word.
- 3 marks questions should be answered in about 40 to 50 words.
- > 4 marks questions should be answered in about 60 to 70 words.
- > 6 marks questions should be answered in about 110 to 120 words.

	•		SECTION -	- A (STATISTICS	5)		
1.	Economics is a study of	mankind in	the ordinary b	usiness of life. ⁻	This definitio	n of economics is giv	ven by- (1)
	a) Alfred Marshall	b) Adam Sr	nith c	Robbins	d) Sa	muelson	
2.	A survey in which inforr	nation is co	llected from ea	ich and every u	nit of popula	ition is known as-	(1)
	a) Sample survey	b) Census	survey c) Pilot survey	d) M	arket survey	443
3.	Which of the following	situation is	the root cause	of all economic	problem-		(1)
	a) Investment	b) Scarcit) Under consun	nption d) ov	er production	(4)
4.	The main sources of da	ta are-					(1)
	a) Primary	b) Seconda) Both a &b	d) N	one	(2)
5.		al sense. Exp	olain its any tw	o characteristic	:S.	•	(3)
6.	Discuss the concept of			th suitable exan	nple. ·		(3)
7.	Distinguish between ba	r diagram a	nd histogram.				(3)
8.	Write the procedure fo	r drawing a	histogram who	en the class inte	erval is unequ	iai.	(3) (4)
9.	Write short note on lim	itations of s	secondary data	and purposive	sampling.	inami tabla basi	
10.	Differentiate between	quantitative	e and spatial c	lassification. Co	onstruct an i	maginary table base	(4)
	classification.			OD			(4)
		. 1		OR	n of imagina	n evamnle	
	Differentiate between	exclusive ar	ia inclusive ser	ies with the ner	h or imagina	y example. zero. Evolain this n	roperty with
11.	The algebraic sum of	deviation o	T Items from a	arithmetic mea	iii is aiways	zero. Explain this p	(4)
	example.	de a Callanda	- in avaluation	and more than	series-		(4)
12.	Define series. Convert		10	15	20	25	}
	Marks less than	5	25	35	55	65	į
	frequency	12					: dith morite
13.	Define questionnaire.	Write the o	jualities of a g	ood questionna	aire. Discuss	Enumerator method	(1+2+3=6)
	and demerits.						(1+2+3-0)
	_			OR		uite and democrite	Uso suitable
	What do you mean I	oy sampling	g? Discuss sys	tematic sampli	ing with me	rits and dements.	Ose suitable
	example.						£ +l
14	. Write about graphical i		n of data with t	two merits & de	emerits. Drav	v a frequency polygo	on for the
	following data (using h	istogram) -				10.45	(6)
	Daily Pocket money	20-25	25-30	30-35	35-40	40-45	
	No. of student	4	9	13	9	5	
15	. Calculate mean using d	irect and sh	ort cut metho	for the follow	ing		(3+3=6)
	Marks more than	0	2	4	6	8	
	Frequency	40	35	25	18	10	
	lavage.		CECTION D	/BAICDOECONO	NAICE!		
	 			(MICROECONC	MALICS		(1)
16	. Microeconomics is not			c) A firm	d) An indu	etry	ζ/
4-7	a) National income. When there is an impre	b) A consur			•	*	(1)
Τ/		ceibilitios fr	ontion shifts in	ward	1183 0011310111		` '
	c) The production pod) The production po						
10	. What is a demand fund		officer does no	2 01141180			(1)
	. Write the various indiv		minants.				(1)
	. Establish relation betw			nal utility.			(3)
21	. Define indifference cu	rve Explain	reason for cor	ovex nature of i	t with examp	le.	(3)
22	. Explain law of demand	with nume	rical example.	Discuss any one	e reason for t	he law.	(4)
2:	. Discuss consumer equi	librium usir	ng indifference	curve approach	n		(4)
	Dioesto consumer equi		<u> </u>	OR			
	Discuss consumer equ	ilibrium usi	ng utility appro	ach in single co	mmodity cas	se.	
24	. What is an economic p	roblem? Ho	ow does it arise	? Discuss the c	hoice of tech	nique as a central p	roblem of
_	economy.						(1+2+3=6)
				OR			
	Why is a PPC concave	? Discuss ch	ange in PPC wi	th diagram.			·
2.5	Evaluin Normal good				d with diagra	m.	(2+2+2=6)

DELHI PUBLIC SCHOOL, BHILAI FIRST TERM EXAMINATION 2018

Date: 19.09.2018 CLASS -XI SUBJECT : COMPUTER SCIENCE

Time: 03 Hours Max. Marks: 70

Instructions:

	•	(i) All questions are compulsory.	
		(ii) Programming Language C++	
Q.1	(a)	Give two characteristics of second generation computer.	01
	(b)	Distinguish between digital and analog computers.	02
	(c)	Give and explain four characteristics of computers.	02
	(d)	What is a system software? How is it different from application software?	01
	(e)	Distinguish between hardware and software.	02
	(f)	Describe at least four functions of an operation system.	02
Q.2	(a)	Determine the binary equivalent of (387.56) ₁₀	02
	(b)	Convert $(EB4A)_{16} \rightarrow ()_8$	02
	(c)	Convert $(101010)2 \rightarrow ()_{16} \rightarrow ()_{10}$	02
	(d)	Determine the decimal equivalent of (101.0110) ₂	02
Q.3	(e) (a)	Find the 8bit 2'5 complement of $(-10)_{10}$	02
Q.5	(b)	Briefly explain the two major types of programming languages paradigm. State and explain at least four concept of object oriented program.	01
	(c)	Write short note on programming (i) in low level language (ii) in high level language	02 02
Q.4	(a)	What is the difference between 'a' and "a" in C++	02
	(b)	Which of the following are invalid indetifiers and why?	02
	` '	(i) Percent (ii) S-num (iii) 123 (iv) abc Km (v) class (vi) main	0.2
	(c)	Correct the error if any	02
		(i) int $3*5$ (ii) $1*b = area$ (iii) $l=ab+c*d$	
		(iv) area = $3.14* R**R$	
Q.5	(a)	How is structure different from array?	01
	(b)	In how many ways can a variable be declared in C++? Give examples also.	1½
	(c)	What is the difference between 25L and 25?	01
		Which had don file(a) and no coincide and the file of the state of the	
	(d)	Which header file(s) are required to run the following code.	1½
		void main ()	
		{ int Last=25;	
		for (int i=9; $i \le \text{Last}$; $i++$)	
		cout <i<":"<sqrt (i)="" <<endl;<="" td=""><td></td></i<":"<sqrt>	
		getch();}	
	(e)	What will be the result of the following expression? $++a \le 5$	01
		(i) if a=5 (ii) if a=4	
	(f)	Predict the output of the following code.	01
		# include $< iostream. h >$	
		void main ()	
		{ float num=110;	
		$\mathbf{num!} = (\text{num} = -\text{num})? \text{ cout} < \text{"OK"} : \text{cont} < \text{"Not Ok"};$	
		}	
	(g)	Determine the hierarchy of operations and evaluate the following expression.	02
	,	i = 2*3/4+4/4+8-2+5/8	
	(h)	What do you understand by type conversion? How many types of conversions are there	03
	(-4)	explain with example?	vo
		explain with example:	

(i)	Using "?" operator write a program that reads a character from the Keyboard and then display	03
	one of the following.	
·	(i) If character is a lower case letter, then it will display equivalent upper case.	
	(ii) If character is a upper case letter then it will display equivalent lower case.	
	(iii) If characher is not a letter then the message "character is not a letter".	
(a)	What are the modifier available for 'int' data type? Name them and write their sizes in bits.	03
(b)	Write the altrnative keyword for the following primary keyword.	02
	(i) != (ii) (iii) ∧= (iv) =	
Wri	te program for the following:	
(a)	To find H.C.F. and L.C.M. of two numbers using if and goto statement.	04
(b)	To print the following design.	04
	% % % %	
	####	
(c)	To sum the following series	04
	$1 + \frac{1}{1^2} + \frac{1}{2^3} + \frac{1}{3^4} + \dots + n$ terms	
(d)	To print fibonacci series 0,1,1,2,3,5,8according to user limit (using for loop).	04
(e)	To calculate and print roots of quadratic equation. Check all possible conditions.	04
	(a) (b) Wri (a) (b) (c) (d)	 one of the following. (i) If character is a lower case letter, then it will display equivalent upper case. (ii) If character is a upper case letter then it will display equivalent lower case. (iii) If character is not a letter then the message "character is not a letter". (a) What are the modifier available for 'int' data type? Name them and write their sizes in bits. (b) Write the altrnative keyword for the following primary keyword. (i) != (ii) (iii) Λ= (iv) = Write program for the following: (a) To find H.C.F. and L.C.M. of two numbers using if and goto statement. (b) To print the following design. %%%%% #### %%%% ### %%%% ## %% (c) To sum the following series 1 + 1/12 + 1/23 + 1/34 +

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Date: 19.09.2018 CLASS -XI

DELHI PUBLIC SCHOOL, BHILAI FIRST TERM EXAMINATION 2018 SUBJECT: BIOLOGY

Time: 03 Hours Max. Marks: 70

GENERAL INSTRUCTIONS

	<u> </u>	WALL HISTRUCTIONS:	
i	(i) (ii) (iii)	All questions are compulsory and answer serially. The question paper consists of four sections A,B, C and D. Section A contains 5 questions of 1 mark each, Section B is of 7 questions of 2 marks each, Section C is of 12 questions of There is no overall choice. Here is no overall choice.	3
	(iv)	There is no overall choice. However, an internal choice has been provided in one question of 2 marks, one question of 3 marks and three questions of 5 marks weightage. A student has to attempt only one of the alternatives in such questions. Wherever necessary, the diagrams drawn should be neat and properly labelled.	of to
_			_
Q.03	l W	SECTION A That is pulvinus? Give an example of a plant that has pulvinus.	
Q.02 Q.03	Bı	Thy are Plasmodium (malarial parasite) like protozoans called Sporozoans? rijnal and Potato belong to the same genus Solanum, but two different species. What defines em as separate species?	0; 0; 0;
Q.04 Q.05	Na Tv	ame the cells that line the spongocoel in Sycon. wo key events take place during S phase in animal cells-DNA replication and duplication of antriole. In which parts of the cell do these events occur?	01
		SECTION B	
Q.06		fferentiate between Polyps & Medusac.	00
Q.07 Q.08	(a)	ow are the gametophytes of pteridophytes different from those of gymnosperms? In a few fungi, during sexual reproduction, two haploid hyphae do not immediately result in diploid cell (2n) formation. Name the intervening condition and phase of fungus.	02 02 02
Q.09 Q.10	(b) Ho	Name two symbiotic associations of fungi. w are animals of Platyhelminthes different from those of Annelida? (Four points)	02
		B R R A	02
	(a) (b)	Name the part shown at (A) and (B) in the diagram. Is 'B' a modification of stem or leaf? What is the function of 'B'?	
	Wri	or or account or constant of the second of t	
Q.11		te an account on gemmae of Liverworts.	
Q.12		divides the intracellular space of the cell into distinct compartments. Name them. What is major function of SER in animal cells. resent diagrammaticaly a cymose inflorescence.	02
		SECTION C	02
Q.13	(a) (b) (c)	Rearrange the following taxonomic categories in a proper sequence from smaller taxon to higher one: Class, Genus, Phylum, Order, Species, Kingdom, Family Name the highest category in the hierarchical system of classification. Define taxonomy.	03
Q.14	(a)	While each of the membrane bound organelles in Eukaryotic cells is distinct in terms of structure and function(s). Some of them are considered to refer to the structure and function of them are considered to refer to the structure and function of them are considered to refer to the structure and function of them are considered to refer to the structure and function of the structure and structure a	03

structure and function(s). Some of them are considered together as an endomembrane system. Name the cell organelles in the endomembrane system. Why are they called so? This organelle of the endomembrane system has 'cis' face and 'trans' face. Name the

organelle and enlist two functions of it.

Q.1	and modification of stems in.	
0.1	(a) Chrysanthemum (b) Fichhornia (c) Isaari	0
Q.1	What is heterospory? Briefly comment on its significance.	_
0.1	plants in pteridophytes.	s 0:
Q.1	' The state of the	
	(b) Mention the level of organization in	_
O 1	(1) Ctenophora (ii) Porifera	03
Q.1	The state of the s	
	(b) Name the phyllotaxy shown in figure 'A' and 'B'.	03
	NA NA	
	\alpha \cdot	
	A	
	(c) Why is phyllotaxy in Alstonia described and the	
Q.19		
	What is alternation of generations? Represent it diagrammatically in the life cycle of Bryophytes.	03
	V 1 V 1000	
	Algae show a variety in their modes of sexual reproduction which may be isogamous, anisogamous or oogamous but do not produce any and	
	anisogamous or oogamous but do not produce any embryo.	
	(a) What is oogamy? Give an example.	
	(b) How is anisogamy different from isogamy?	
	(c) Which among the three is considered the most advanced in the considered	
Q.20	- commo canal system at change	
Q.21	Animal x has $2n=4$ chromosomes. Draw labeled diagrams of this will be the	03
	_	03
0.00	(a) Anaphase of mitosis (b) Anaphase 1 of meiosis	
Q.22	(a) Draw a well labeled diagram of Eligiena	02
O 22	(D) Give any two characteristic features of it	03
Q.23	(a) What is meant by 'contagium vivum fluidum'?	02
	(b) why are viruses called obligate intracellular parasites? Name a virus that I	03
Q.24		
Q.24	(a) How are ascospores and conidia both produced by ascomycetes differ from each other? (b) Mention any four economic uses of Ascomycetes.	03
	(b) Mention any four economic uses of Ascomycetes.	05
	SECTION D	
Q.25	(a) Define cytokinesis	
	(b) Why can cytokinesis not occur in plant cell the same	05
	(b) Why can cytokinesis not occur in plant cell the same way as it occurs in animal cell?(c) How is it accomplished in animal and plant cells?	
	OR	
	An organism has two pairs of chromosomes (i.e. chromosome number=4).	
	Diagramatically represent the chromosomal arrangement desired to the	
	The state of the s	
Q.26	How do the various leaf modifications help plants?	
	OR	05
	Define Aestivation. Explain the different types of aestivation with discussion with discussion.	
~		
Q.27	(a) Describe the important characteristics of gymnosperms.	
	(b) Both gymnosperms and angiosperms bear seeds. But, why are they classified separately.	05
	i inc	
	(a) Draw a labeled diagram of the basic body plan of chardetes	
	(b) Wellull the four characteristic features which all chordetes passes	
	(c) Classify chordata till class.	

AAAKKK

DELHI PUBLIC SCHOOL, BHILAI (C.G.) FIRST TERMINAL EXAMINATION, 2018

GEOGRAPHY

Time: 3 Hours

M.M: 70

CLASS: XI

General Instructions

DATE: 17-09-2018

- 1. All Questions are compulsory.
- 2. Map provided must be attached within the answer script.
- 3. Marks allotted to each question is indicated against it.

1) What is geography?

 $(1 \times 10 = 10)$

- 2) What is latitudinal and longitudinal extent of India?
- 3) What is Naturalised humans?
- 4) What is the total length of India's coastline?
- 5) Why do earthquake develop shadow zone?
- 6) Name the forces suggested by Wegener responsible for the movements of the continent?
- 7) What is Mass Movement?
- 8) How Uvala is formed?
- 9) What is exfoliation?
- 10) What is a cirque?
- 11) What are the implications of India having a long coastline?

 $(3 \times 10 = 30)$

- 12) What is the importance of physical geography?
- What is the rank of India in the world as far as geographical area is concerned? Why 82°30'E has been selected to calculate I.S.T?.
- 14) What is the difference between S & P waves?
- 15) What is the major difference between transform boundary and convergent and divergent plate boundaries?
- 16) Describe the nature and mode of origin of main rock types. How will you distinguish them?
- 17) What are rapid and perceptible mass movement? Explain.
- 18) What relationship is explained by the rock cycle between major types of rocks?
- 19) What is the significance of weathering?
- 20) How do glaciers accomplish the work of reducing high mountains into low hills and plains?
- 21) How do you distinguish between the process of soil formation and soil forming factors? (5×5=25) What is the role of climate and biological activity as 2 important factors for soil formation?
- What were the major post drift discoveries and theories that rejuvenated the study of distribution of oceans and continents?
- 23) Illustrate direct and indirect sources of information of the interior of the earth.
- 24) Running water is most important and dominating geomorphic agent in shaping the earth's surface in humid as well as in arid climate. Explain.
- 25) What do you understand by intrusive forms? Describe various intrusive forms.
- 26) a) On the outline map of the world, identify the items given as A, B & C.

 $(1 \times 5 = 5)$

- b) On the outline political map of India, locate and label the following items:
 - i) Capital of Arunachal Pradesh
 - ii) Capital of Mizoram.

DELHI PUBLIC SCHOOL, BHILAI (C.G.) FIRST TERM EXAMINATION, 2018

TIME: 3 Hours DATE:17-09-2018 HOME SCIENCE M.M.: 70 CLASS: XI

	•	
1	What is retting process?	(1
2	What is the selvedge?	(1
3	Give one example each: a) staple yarn b) filament yarn	(1
4	Define emotional health.	(1
5	Define social identity.	(1
6	'Self' has several dimensions. How is this correct?	(1
7	Name two fibres made of protein.	(2
8	Write four important properties of Nylon.	(2
9	Time is considered as a human resource. Why?	(2
10	What is food guide pyramid? Explain briefly.	
11	What do you understand by developing a sense of self and identity?	(2
12	During the period of early childhood we describe them as concrete and overestimation. Explain.	(2
13	Explain the term 'social comparison' in relation to middle childhood.	(2
14	List different types of communication skills and write briefly about them.	(3
15	Write the importance of finishes given to the fabrics.	(3
16	How is the term communication technologies defined? Mention the technologies which have brought revolution in the communication arena. Justify your answer.	(4
17	What is Rayon made up of? Write two beneficial properties and two drawbacks.	(4
18	What are the characteristics of resources?	(4
19	Compare the terms Anorexia and Bulimia.	(4
20	What is cognitive development? What are these changes observed during adolescence?	(4
21	Explain adolescents under the given heads: 1) abstract 2) contradictions	(
	3) ideal self 4) real self	(4
22	What is non verbal communications? How will you analyse speaker's style?	(5
23	What is SMCRE model? Write briefly about the elements involved in it.	(5
24	Explain the process of management.	(:
25	What are the types of manufactured fibres?	(:

DELHI PUBLIC SCHOOL, BHILAI

First Term Examination - 2018

Class - XI Subject -Informatics Practices

Time: 3 Hrs

MM : 70

Dt: 17.09.2018

General Instructions:

- All questions are compulsory.
- There are three Sections. Section "A" carries 15 marks, "B" 45 marks and Section "C" 10 marks.
- Take necessary control name wherever it is required.

Section - A

```
Q1. a. Explain role of "Primary Memory Unit" of a computer system with its sub division.
                                                                                                       (2)
                                                                                                       (2)
    b. Write functions performed by "Control unit" of C.P.U.
   c. How "Multi User" operating system is different than "Real Time" operating system software?
                                                                                                       (2)
    d. What do you understand by "Smart Card Reader"?
                                                                                                       (1)
                                                                                                   (1x4=4)
Q2.a. Explain following terms -
       i. Biometric Sensor ii. Control Bus iii. BIOS iv. Device Driver
                                                                                                       (1)
    b. Write any two characteristics of a computer.
                                                                                                        (1)
    c. Give name of two popular operating system software.
                                                                                                        (2)
    d. Write short note on "Types of Utility Software".
                                     Section - B
Q3.a.i. What output will be displayed in the given textfields by the following program segment -
                                                                                                    (2x3=6)
       int x=11;
       switch(x)
            { case 11: txt.setText(" CBSE");
              case 10: txt.setText(" NCERT");
                       break;
               case 20: txt.setText(" ICSE");
                       break;
               case 30: txt.setText(" BC");
               default: txt.setText(" CG");
               txp.setText("End ");
       ii.String s1="Protocol", s2="Hyper Text";
               System.out.println(s1.concat(s2));
               System.out.print(s1+""\n"+"Cookies\n");
       iii. int n1=50,n2=20, n3=500;
               if(n1%20>=0 || n2<=200)
               n2++;
               else
               n3--;
               System.out.println("line1 "+n1);
               System.out.println("line 2 "+ --n2);
               System.out.println(" line 3"+ n3);
                                                                                                (1x4=4)
 b. Explain the following terms -
   i. Keyword ii. Literal iii. Tokens iv. Identifier
 Q4.a. Find out syntax error(s) in the given code snippet and rewrite corrected one-
                                                                                                (2x3=6)
     i. int a,b, c=1
        switch(c)
        txt.settext("We got same marks");
        System.println(" We did not get same marks");
     ii. p=10.5, q;
        p=Double.parseDouble(tx1.get());
        q=m*30+p;
        tx2.set(" Value of q is ", q);
```

iii. string a="C++", b="Java";
 System.out.print{" First String "+a};

else :

System.print(" Second string "+b);

b. Mention any four properties of text area control with its usage.

(2)

c. What is logical operator used in java? Explain each with suitable example.

(3)

d. Write any two feature of "Netbeans IDE".

(1)

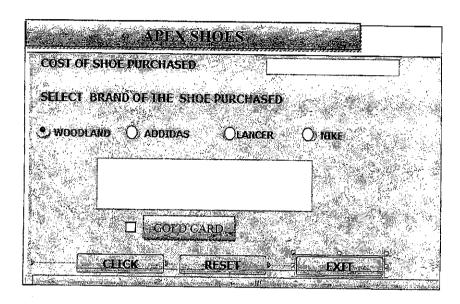
e. Explain the utility of JOptionPane Dialog box with example

(1)

f. What for parse methods are used in java? Explain with suitable example.

(1)

Q5.a. Mr Jignesh Desai an owner of "Apex Shoes". He asked his programmer develop the following GUI application in Netbeans for billing system, screenshot is given below: (4+1+1)



i) After feeding cost of shoes and selecting brand of shoes, when user click on "CLICK" button then it should calculate and display discount and Net payable amount as follows—

 Brand Brand	Discount% (On Cost Price)	
WOODLAND	2	
ADDIDAS	5.5	
LANCER	7.5	
NIKE	10.5	
	•	

For "GOLD CARD" customers 5% additional discount is offered.

Net payable Amount= Cost - discount

Output should be displayed in jTextArea" control.

ii) Also give code for "RESET" and "EXIT" button.

b. Develop a Java Application to calculate "Electricity bill" for an electricity consumer when previous and present meter reading will be given by user. Rate per unit (tariff) as given below. Also give required frame design.

_	Units Consumed	Rate / Unit (in Rs)	(3)
	0 - 300	5	
	301 - 500	7	
,	501 – 900	9	
	& above	11	

c. How "Inspector" and "Project" windows are useful in Netbeans.

(2)

d. Explain following methods used in java with example -

(2x2=4)

i. setVisible()

ii. setEnabled()

:::: 3 :::	
. Explain the feature of java language which states - "Java is case sensitive".	(1)
f. Sort out the valid variable name(s) from the given list, also state reason of being invalid -	(2)
2no, my number, #sum, nos \$ g. What do you understand by "control statements" used in java? Give example.	(2)
h. Name one control of Netbeans components(controls) which is not visible on frame.	(1)
Section - C	
Q6.a)Write four characteristics of "MySQL" RDBMS.	(2)
b) What do you understand by "CHAR" and "VARCHAR" data types used in MySQL. Explanation suitable example of each.	ain with (2)

Field Name	Data type	Size
Sports_ID	Integer	5
Sports Name	Varchar	40
MinAge	Integer	2
Coach Name	Varchar	20
Fees	Double	6,2
Join Date	Date	

Q7. Consider the table given below and Give SQL for the following -

c) Create table "SPORTS" as per following Table Instance Chart.

(1x4=4)

(2)

PETANIMALS

NAME	OWNER	SPECIES	SEX	BIRTH	DEATH
Claws	Gwen	Cat	M	1994-03-17	null
Fang	Benny	Dog	M	1990-09-23	1999-07-23
Bowser	Diane	Dog	M	1997-09-11	1998-07-29
Chirpy	Gwen	Bird	F	1998-08-23	1999-01-19
Slim	Gwen	Bird	Null	1997-07-22	Null

- 1. Create a database namely IPDATABASE.
- 2. Display structure of the table PETANIMALS
- 3. Display all records of the table PETANIMALS
- 4. Add a new record with given data ('Parrot', 'Sami', "Bird', 'F', '1998-10-23', '2001-1-25')

FIRST TERM EXAMINATION, 2018

DATE:17-09-2018 CLASS: XI

BIOTECHNOLOGY

Time: 3 Hours

M.M:70

No. of Pages Printed: 1

1) Questions paper consists of four sections A,B,C and D. 1) Questions 1 to 6 carry one mark each. 1) Questions 1 to 25 carry three marks each. 2) Questions 26 to 28 carry five marks each. 3) Venetions 26 to 28 carry five marks each. 2) What are the elements that forms the frame work of organic molecules? 3) State any two functions of sclerenchyma cells. 4) When did Louis Pasteur published the report on the formation of lactic acid. 5) Which part of the leaves help in photosynthesis and which part in CO ₂ absorption? 6) Interphase of cell division is of particular interest. Why? SECTION B 7) How are clones produced? Explain. 8) What are stem cells? How do embryonic stem cells differ from adult stem cells? 9) What is the importance of biosensors in Biotechnology? 10) Diagrammatically show the structure of an immunoglobulin molecule. 11) Classify epithelial tissues based on the shape of cells. 12) What are called biodiversity hot spots? Give an example. What causes its destruction? 13) What is the function of motor nerves? Draw a well labeled diagram of a neuron. 14) What cells are used in the production of insulin and Hepatitis B vaccine? Write the applications of nano technology. 5) SECTION C 15) What are the living systems used in biotechnological procedures? 16) Explain prophase I of meiosis with the help of diagram. 17) Explain prophase I of meiosis with the help of diagram. 18) Plants remain healthy for most of their life. Explain how they remain protected from environmental challenges. 19) Cell communicate with each other to perform any function. Explain the process with diagram. 20) Explain the process of apontosis. How does it differ from necrosis?	;
iii) Questions 7 to 14 carry two marks each. iv) Questions 15 to 25 carry three marks each. v) Questions 26 to 28 carry five marks each. SECTION A 1. When did antibiotic revolution start? What was the demand of it? 2. What are the elements that forms the frame work of organic molecules? 3. State any two functions of sclerenchyma cells. 4. When did Louis Pasteur published the report on the formation of lactic acid. 5. Which part of the leaves help in photosynthesis and which part in CO ₂ absorption? 6. Interphase of cell division is of particular interest. Why? SECTION B 7. How are clones produced? Explain. 8. What are stem cells? How do embryonic stem cells differ from adult stem cells? 9. What is the importance of biosensors in Biotechnology? 4. Classify epithelial tissues based on the shape of cells. 4. What are called biodiversity hot spots? Give an example. What causes its destruction? 4. What cells are used in the production of insulin and Hepatitis B vaccine? Write the applications of nano technology. SECTION C 15. What are the living systems used in biotechnological procedures? 4. Explain structure and contraction of muscles with the help of diagram. SECTION C 16. Explain prophase I of meiosis with the help of diagram. Plants remain healthy for most of their life. Explain how they remain protected from environmental challenges. (3) Cell communicate with each other to perform any function. Explain the process with diagram.	;
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20. Entrie the appears of amortogic Way, does it differ from perrosic?)
20. Explain the process of apoptosis. How does it differ from necrosis? (3)
21. How do animals protect themselves from pathogens? (3)
22. Enlist any five points of difference of different muscle tissues. (3)
23. Explain the procedure or technology that can help infertile couples to solve their problems related to	
their reproductive health. (3	
24. What is genetic recombination? Explain any two in terms of bacteria. (3	
25. State the difference between bone and cartilage. (3	;)
(OR)	
Compare chlorenchyma and parenchyma cells.	
SECTION D 26. Explain the structure with diagram and function of the organelle known as the power house of the cell. (OR)	
Explain triple fusion in plants with the help of diagram. (5	5)
27. Write the application of Biotechnology in various industries (any five) (5	5)
28. Explain vascular tissues with the help of diagram. (5	5)
(OR)	
Living cells must maintain their shape. How do they maintain their shape.	
Draw a well labeled diagram of Golgi apparatus.	

DELHI PUBLIC SCHOOL, BHILAI (C.G.) FIRST TERMINAL EXAMINATION, 2018 MATHEMATICS (041) CLASS: XI

DATE: 17-09-2018

Time: 3 Hours

M.M:100

GENERAL INSTRUCTIONS:

- a) All questions are compulsory
- b) The question paper consists of 29 questions divided into four sections A, B, C and D. Section A comprises 4 questions of 1 mark each, Section B comprises 8 questions of 2 marks each, Section C comprises 11 questions of 4 marks each and Section D comprises 6 questions of 6 marks each.
- c) All questions in Section A are to be answered in one word, one sentence or as per the exact requirement of the question.
- d) There is no overall choice. However internal choice has been provided in 3 questions of 4 marks each and 3 questions of 6 marks each. You have to attempt only one of the alternative in all such questions.

SECTION A

- Write the set $\{2,5,10,17,26...\}$ in set builder form
- 2 If $A = \{a, b, c\}$, $B = \{x, y, z, w\}$. Find how many relations are from A to B
- 3 Find the value of $2 \sin^2 \frac{\pi}{6} + \csc^2 \frac{7\pi}{6}$
- 4 Write the argument of the complex number -3i

SECTION R

- 5 If A,B and C a three sets such that $A \cup B = C$ and $A \cap B = \emptyset$, then show that A = C B
- 6 Find the domain of the function $\frac{x+7}{x^2-8x+12}$
- 7 Find the value of $\tan \frac{\pi}{8}$
- 8 Solve the equation for $x : sec^2 2x = 1 \tan 2x$
- 9 If $a + ib = \frac{(x+i)^2}{2x^2+1}$, then prove that $a^2 + b^2 = \frac{(x^2+1)^2}{(2x^2+1)^2}$
- 10 Find the least positive integral value of m for which $\left(\frac{1+i}{1-i}\right)^m = 1$.
- 11 Solve the inequality for x: $\frac{x}{4} > \frac{5x-2}{3} \frac{7x-3}{5}$
- How many different words can be formed with the letters of word 'ORDINATE" so that vowel occupy odd places.

SECTION C

- Let A and B be two sets, if $A \cap X = B \cap X = \emptyset$ and $A \cup X = B \cup X$ for some sets X, then show that A = B (using properties of sets only)
- 14 Find the domain and range of the function, $f(x) = \sqrt{8 x^2}$
- 15 Prove that $\tan 4x = \frac{4 \tan x(1-\tan^2 x)}{1-6 \tan^2 x + \tan^4 x}$
- 16 Prove that $\sin 10^{\circ} \sin 30^{\circ} \sin 50^{\circ} \sin 70^{\circ} = \frac{1}{16}$

OF

Solve the equation for x:- $\sec x \cos 5x + 1 = 0$ where $0 < x < \frac{\pi}{2}$

17 In any triangle ABC, prove that $\frac{b^2-c^2}{a^2}\sin 2A + \frac{c^2-a^2}{b^2}\sin 2B + \frac{a^2-b^2}{c^2}\sin 2C = 0$

18 Prove, by principle of mathematical induction, that n(n + 1)(n + 5) is a multiple of 3

OR

Show that $(2n + 7) < (n + 3)^2$

19 Find the square root of the complex number 5 + 12i

OR

Convert the complex number $\frac{5-i}{2-3i}$ in to polar form.

- A manufacturer has 600 liters of 12% solution of acid. How many liters of 30% acid solution to be added to it so that acid content in the resulting mixture will be more than 15% but less than 18%.
- How many numbers greater than 50000 can be formed with the digits 0, 2, 3, 5 and 6, no digit being repeated in any number?
- Find the number of words with or without meaning which can be made using all the letters of the word AGAIN. If these words are written as in a dictionary, what will be the 49th word?
- How many four letter words each containing 2 vowels and 2 consonants can be formed by the letters of the word 'DAUGHTER'?

SECTION D

- In a survey of 100 students, the number of students studying various languages were found to be: English only 18, English but not Hindi 23, English and Sanskrit 8, English 26, Sanskrit 48, Sanskrit and Hindi 8, no language 24. Find: (i) How many students were studying Hindi (ii) How many students were studying English and Hindi (iii) How many were studying exactly one language.
- Let R be a relation from N to N defined by $R = \{(a, b): a, b \in N \text{ and } a = b^2\}$. Are the following statements true (i) $(a, a) \in R$ for all $a \in N$ (ii) $(a, b) \in R$ implies that $(b, a) \in R$ for all $a, b \in N$ (iii) $(a, b) \in R$ and $(b, c) \in R$ imply that $(a, c) \in R \forall a, c \in N$
- 26 Prove that $\cos^4 \frac{\pi}{8} + \cos^4 \frac{3\pi}{8} + \cos^4 \frac{5\pi}{8} + \cos^4 \frac{7\pi}{8} = \frac{3}{2}$

OR

Solve the equation for x: $2 \sin 2x + 2 \sin x + 2 \cos x = -1$

27 By principle of mathematical induction, prove that

2+22+222+2222+.....+222...2.(n-digits)=
$$\frac{2}{81}(10^{n+1}-9n-10)$$
, $\forall n \in \mathbb{N}$

OR

Prove by Induction $2.7^n + 3.5^n - 5$ is divisible by 24, for all $n \in \mathbb{N}$.

- 28 (i) If α and β are different complex numbers such that $|\beta| = 1$, then find the value of $\frac{|\beta \alpha|}{1 \overline{\alpha}\beta}$
 - (ii) Find real θ such that $\frac{3+2i\sin\theta}{1-2i\sin\theta}$, is purely real

OR

If z = 2 - 3i, then show that $z^2 - 4z + 13 = 0$, hence find the value of $4z^3 - 3z^2 + 2z + 170$

Solve the following system of inequalities graphically: x + y < 5, $4x + y \ge 4$, $x + 5y \ge 5$ $x \le 4$, $y \le 3$

FIRST TERM EXAMINATION-2018

Date of Exam: 12.09.2018

ENGLISH Class XI M.M.: 80

No. of printed pages: 3

Max. Time: 3 Hrs. General Instructions:

1. The question paper is divided in three sections. All the sections are compulsory

(a) Section A - Reading Skills

(b) Section B - Writing Skills & Grammar

(c) Section C - Literature

Specific instructions, wherever necessary are given. Follow them strictly.

Section A – Reading Skills (20 marks)

Read the following passage carefully and answer the questions that follow:

(12 Marks)

- 1. Maharana Pratap ruled over Mewar only for 23 years. However, he accomplished so much grandeur during his reign that his glory surpassed the boundaries of countries and time turning him into an immortal personality. He along with his kingdom became immortal because of his valour, sacrifice and patriotism. Mewar had been a leading Rajput kingdom even before Maharana Pratap occupied the throne. Kings of Mewar, with the cooperation of their nobles and subjects, had established such traditions in the kingdom, as augmented their magnificence despite the hurdles of having a smaller area under their command and less population. There did come a few thorny occasions, but soon their flag heaved high in the sky, thanks to the gallantry and brilliance of the people of Mewar.
- 2. The destiny of Mewar was good in the sense that barring a few kings, most of the rulers were competent and patriotic. This glorious tradition of the kingdom almost continued for 1500 years since its establishment, right from the reign of Bappa Rawal. In fact only 60 years before Maharana Pratap, Rana Sanga drove the kingdom to the pinnacle of fame. His reputation went beyond Rajasthan and reached Delhi. Two generations before him, Rana Kumbha had given a new stature to the kingdom through victories and developmental work. During his reign, literature and art also progressed extraordinarily. Rana himself was inclined towards writing and his works are read with reverence even today. The ambience of his kingdom was conducive to the creation of high quality work of art and literature. These accomplishments were the outcome of a long standing tradition sustained by several generations.
- 3. The life of the people of Mewar must have been peaceful and prosperous during the long span of time; otherwise such extraordinary accomplishment in these fields would not have been possible. This is reflected in their art and literature as well as their loving nature. They compensate for lack of admirable physique by their firm but pleasant nature. The ambience of Mewar remains lovely thanks to the cheerful and liberal character of its people.
- 4. One may observe astonishing pieces of workmanship not only in the forts and palaces of Mewar but also in public utility buildings. Ruins of many structures which are still standing tall in their grandeur are testimony to the fact that Mewar was not only the land of the brave but also a seat of art and culture. Amidst aggression and bloodshed, literature and art flourished and creative pursuits of literature and artists did not suffer. Imagine, how glorious the period must have been when the Vijaya Stambha which is the sample of our great ancient architecture even today, was constructed. In the same fort, Kirti Stambha is standing high, reflecting how liberal the then administration was which allowed people from other communities and kingdoms to come and carry out construction work. It is useless to indulge in the debate whether the Vijay Stambha was constructed first or the Kirti Stambha. The fact is that both are standing side by side reveals the proximity between the king and the subjects of Mewar.
- 5. The cycle of time does not remain the same. Whereas the reign of Rana Sanga was crucial in raising the kingdom to the acme of glory, it also proved to be his nemesis. History took a turn. The fortune of Mewar the land of the brave, started waning. Rana tried to save the day with his acumen which was running against the stream and the glorious traditions for some time.

a) On the basis of your reading of the passage, answer the following questions by choosing the best of the given choices. $(1 \times 4 = 4)$

- (i) Maharana Pratap became immortal because
 - (a) he ruled Mewar for 23 years
 - (c) of his valour, sacrifice and patriotism
- (ii) Difficulties in the way of Mewar were:
 - (a) lack of cooperation from the nobility
 - (c) its small area and small population
- (iii) During thorny occasions:
 - (a) the pride of Mewar seemed to be lowered
 - (c) the people of Mewar showed gallantry
- (iv) Mewar was lucky because:
 - (a) all of its rulers were competent
 - (c) most of its rulers were competent

- (b) he added a lot of grandeur to Mewar
- (d) both (b) and (c)
- (b) ancient traditions of the kingdom
- (d) the poverty of the subjects
- (b) the flag of Mewar was hoisted high
- (d) most of the rulers heaved a sigh of relief
- (b) most of its people were competent
- (d) only a few of its people were incompetent

b) Answer the following questions briefly:

(1x6=ੈt

- (i) Who is the earliest King of Mewar mentioned in the passage?
- (ii) What was Rana Kumbha's contribution to the glory of Mewar?
- (iii) What does the writer find worth admiration in the people of Mewar?
- (iv) How could art and literature flourish in Mewar?
- (v) What does Kirti Stambha reflect about the administration?
- (vi) What does the erection of Vijaya Stambha and Kirti Stambha in the same fort signify?

Find words from the passage which mean the same as each of the following:

(1x2=2)

(i) the character and atmosphere of a place (para 2)

(ii) evidence (para 4)

2. Read the passage given below:

(8)

- 1. With society changing at a constant speed one thing remains steady our need and desire to learn. Although the classroom is viewed as a traditional setting for learning, it too is changing and evolving at lightning speed. With a growing population, continual techno logical advances and the constant demand for a valuable education, these institutions must continue to provide the materials to meet these changes. Even though it has existed for some time, a growing trend is distance education, as it is quickly becoming an integral part of the learning experience at all levels of higher education. Distance education has traditionally been referred to as correspondence, whereby the student completes the course by mail from another town or city other than that in which the school is located. The student is supplied with the necessary materials books, tapes or videos and it is upto them to complete assignments by the deadline.
- 2. The appeal of distance education is that the students are allowed to complete the course at their own pace following their own schedule. The student has the choice of completing a few courses, perhaps out of interest or as a stepping stone for their career. With the growing number of accredited institutions there are numerous opportunities available to students wishing to enrich their lives with a certificate, diploma or degree. The newest trend to hit the distance education scene is the virtual classroom or distance education online. This has opened up a whole new world of opportunities for students.
- 3. Many schools are now offering distance education courses online with students receiving all course materials and grades as well as handing in assignments, communicating with professors/instructors or chatting with fellow students over the internet. It is also easier for students to access their instructor for clarification about assignment, grades or questions about their courses. From an international perspective, distance education online now gives pupils a chance to easily study at school in other countries. Canadian and international pupils now have the chance to explore each other's education systems without the hassle of acquiring a student visa or incurring expensive travel costs.
- 4. A few tips to think about before pursuing distance education are, students should be self-disciplined and motivated and should make sure they have the available time during the week to complete the work. Research your institution before enrolling, make sure it's accredited, so you know your certificate, diploma or degree will be recognized upon completion. If you are taking this programme as a requirement for a job, make sure your current or potential place of employment will recognize your certificate upon completion. Ask others who have already taken your course or another programme from the same institution about their experience with the programme or school. Ask yourself what level of involvement you would like from your instructor or other students.
 - a) On the basis of your understanding of the above passage make notes on it using headings and sub-headings. Use recognizable abbreviations (wherever necessary-minimum four). Also supply an appropriate title to it.
 - b) Write a summary of the passage in about 80 words.

(3)

Section B - Writing Skills & Grammar (30 Marks)

International Tobacco Control is an organisation that is working worldwide to spread awareness about the hazards
of tobacco use. Create a poster for the organisation highlighting the harmful effects of smoking and tobacco
consumption.

OR

Your school, Amity Public School, is organising a 'Rangoli' competition on the occasion of Foundation Day. The Education Officer has consented to be the Chief Guest for the occasion. Draft a notice in about 50 words to be displayed on your school notice board. You are Ritwik/Ritvika, the Cultural Secretary of the school.

You are Rahul / Renu of 201, Gautam Enclave, New Delhi. Your colony is plunged in darkness due to frequent, unscheduled breakdowns of the supply of electricity. Write a letter to the editor of "The Hindustan Times" drawing the attention of the concerned authorities towards your plight.

<u>OR</u>

As the Head Boy of your school, write a letter to the Principal requesting him to arrange a programme for career counselling for the students of classes XI and XII. Request him to invite experts from several professions to speak to the students to give insight and information.

With the onset of monsoons several mosquitoes borne diseases start spreading. They cause malaria, dengue, chikungunya etc. These diseases can sometimes prove to be fatal. As a concerned student of your school, you have decided to deliver a speech on ways to tackle this issue. Write that speech in about 200 words. During your visit to the hilly areas of Himachal Pradesh you were moved by the sight of large scale deforestation. You were disturbed by the thought of dangerous consequences of deforestation. Write an article to be published in the school magazine on the harmful consequences of deforestation in not more than 200 words. 6. The following passage has not been edited. There is one error in each line. Write the incorrect word and the correction against the correct blank. $(1 \times 4 = 4)$ Incorrect Correct The Earth himself becomes our enemy eg. himself itself when an earthquake strike. Every ************* country an the world is threatened by the tremendously fury of earthquakes. Their power exceeds all a forces under man. 7. Rearrange the following words / phrases into meaningful sentences: (1x3=3)a) old days/ she/ the/ also/ likes/ about/ talk/ to stores/ she/ to/ at/ shop/ the/ likes/ local pastries/ delicious/ when/ she/ bakes/ she/ is in/ mood/ the c) Change the following sentences from active voice to passive voice: (1x3=3)(a) He wore a blue shirt. (b) I finished the job. (c) We expect good news. Section C - Literature (30 Marks) Read the extract given and answer the questions that follow: (1x3=3)Now she's been dead nearly as many years As that girl lived. And of this circumstance There is nothing to say at all. Its silence silences. a) Who does 'she' refer to? b) Explain the sentence 'Its silence silences'. c) What does 'circumstance' mean in the extract? And forever, by day and night, I give back life to my own origin, And make pure and beautify it: (For song, issuing from its birth place, after fulfilment, wandering reck'd or unreck'd, duly with love returns.) a) What is the figure of speech used in the first line? b) How does the rain benefit the earth? (Mention any two ways) c) Explain the last two lines of the extract.

10. Answer any three of the following questions.

 $(3 \times 3 = 9)$

- a) Mention the ways in which the sparrows expressed their sorrow when Khushwant Singh's grandmother died?
- b) List the deeds that led Ray Johnson to describe Akhenaten as 'wacky'.
- c) What were the peculiarities in uncle Khusrove's behavior?
- d) Why did the narrator decide to forget the address?

11. Answer any one of the following questions in 120 to 150 words.

What were the funerary treasures found in Tut's tomb? Why were these treasures buried along with his body?

Highlight the tremendous courage and forbearance shown by the two children during the struggle to keep the boat from sinking. What values do you learn from them?

12. Answer the following question in 120 to 150 words.

(6)

'The Address' is divided into pre war and post war times. What hardships do you think the girl underwent during these times?

Why do the boys Mourad and Aram think that they had not stolen the white horse even though they had kept it with them for a long time? Why did they return it?

13. Khushwant Singh's grandmother was person of strong character. Give at least four instances to show this from the

What was the drastic decision taken by Carter regarding Tut's mummy? How did he justify it? What advances have taken place in Archaeology since Carter's time?

FIRST TERM EXAMINATION, 2018

ACCOUNTANCY

Time: 3 Hours

M.M:90

CLASS: XI

No. of Pages Printed: 2

Ge	neral Instructions—
1.	Marks of each question have been indicated against it.

2. All questions are compulsory.

DATE: 14-09-2018

3. Avoid overwriting and cuttings.

(iii) Principle of consistency.

- 4. Give calculations or working notes wherever required.

4	5. All points of the questions should be attempted at one place.	
1)	Name the process of transferring entries from a journal to their respective accounts in the ledger.	(1)
2)	Which document evidences that the credit has been granted to the named person for the reason	
,	stated therein?	(1)
3)	What do you understand by the term casting?	(1)
4)	When is closing stock shown in the trial balance?	(1)
5)	Is cash memo a source document or an accounting voucher?	(1)
6)	Which qualitative characteristics of accounting information is reflected when accounting	
	information is clearly presented?	(1)
7)	Name the category of accounts that are balanced.	(1)
8)	Give any three limitations of accounting.	(3)
9)	Briefly discuss the three branches of accounting.	(3)
10)	Distinguish between cash discount and trade discount.	(3)
11)	State three reasons when the cash book balance will be higher than the passbook balance.	(3)
12)	What do you understand by' Subsidiary Books'? Describe two advantages of preparing such books.	(3)
13)	What do you mean by source documents? Describe two basic purpose of source documents?	(3)
14)	Following balances appear in the books of Saumya & Sisters' as on 31st March, 2018.	
	Assets: Cash in hand ₹430; Cash at bank ₹ 2,675; Closing Stock ₹ 9,000; Machinery	
	and Equipment's ₹ 6,000.	
	Liabilities and Capital: Creditors ₹ 5,600 (Roshan Bros'); Capital ₹ 25,000.	
	Pass opening entry as on 1 st April,2018.	(3)
15)	Give any four points of distinction between accrual and cash basis of accounting.	(4)
,	Giving examples, explain each of the following terms:	(4)
/	i) Fixed Assets (ii) Revenue (iii) Current Liability (iv) Contingent liability	
17)	7 117 7 114	
,	trial balance.	(4)
	i) Plant and Machinery (ii) Discount received (iii) Bank overdraft (iv) Return inward	
	(v) Sales (vi) Bad debts (vii) Carriage outward (viii) Provision for depreciation on machinery	
18)	Name the books of original entry where the following transactions will be recorded with the reasons thereof:	(4)
	 Provision for doubtful debts created @ 5% on debtors with book debts of ₹10,000. 	
	ii) Received from a salesman of goods (worth ₹ 30,000) sold by him after deducting commission	
	of ₹1,500.	
	iii) Purchased furniture on credit from Mr. Ratan Singh for ₹ 15,000 for use in the business.	
	iv) Defective goods sold to Babita on credit worth ₹ 4,000 were returned by her.	
19)	Answer the following:	
/	i) Give examples of services on which GST paid cannot be set off and thus is Cost.	
	ii) In which cases GST paid (Input GST) is Reversed.	
	iii) Name the goods and services which are exempted from levy of GST.	(6)
20)		(6)
20)	i) Paid custom duty ₹11,000 by cheque on import of a new machinery.	
	ii) Goods worth ₹ 2,000 and cash ₹ 5,000 were given away as charity.	
	iii) Purchased goods of list price 5000 at 10% trade discount and 3% cash discount from Harsh in cash plus	
	CGST & SGST @ 6% each.	
	The state of the s	
	(a) 6% each half amount received by cheque which was not deposited into bank.	
	The specific of the specific o	
	vi) Received first and final dividend of 60 paise in rupee from the official receiver of Kartik who owed ₹ 10,000.	
21)	Explain the following concepts with example:	(6)
ŕ	(i) Money measurement concept.	
	(ii) Going concern concept.	
	(iii) Dringinla of consistency	

22) Show the Accounting Equation on the basis of the following transactions:

(6)

	•	nil commenced business with cash ₹ 1,50,000; goods ₹ 60,000; machinery ₹ 1,00,000	
		d furniture ₹ 50,000.	
	,	3rd of the above goods sold at a profit of 10% on cost and amount is received in cash.	
		epreciation on machinery provided @ 10%.	
	•	ash withdrawn for personal use ₹ 10,000.	
	•	rchased goods for ₹20,000 from Samar and paid half amount in cash.	
	,	oods sold to Gupta for ₹ 10,000 (costing ₹ 8,000) and received a Bill Receivable for the	
		me amount for three months.	(6)
23)	_	e a sales book from the following transaction of Harish Furniture House Bombay:	(6)
	May 1		
		150 Chairs @₹ 150 each	
		40 Tables @₹ 450 each	
		Trade Discount 10%	
	Mary 1	IGST@18%	
	May 1	·	
		10 Almirah @ ₹ 1,500 each	
		120 Chairs @ ₹ 175 each Trade Discount @ 15%	
		CGST & SGST @18% each.	
	May 2		
	May 2	9 Dozens chairs @₹180 per chair	
		5 Sofa Sets @₹ 2,250 each	
		Less 5% Trade Discount	
		IGST @ 18%.	
	May29		
		2 Old machines @ 1,500 per machine	
		1 Old typewriter for ₹2,200	
		IGST @ 18%	
24)	Write	up the following transactions in a Cash Book with Bank columns:	(8)
	March	1 Balance in hand ₹ 15,000; Overdraft at bank ₹ 30,000	
	March	2 Further capital introduced ₹ 50,000 out of which ₹ 20,000 deposited in the bank.	
	March	6 Sold goods to Varun and received cheque from him ₹25,000.	
	March	8 Received from Karan on behalf of Kunal ₹ 15,000.	
	March	10 Interest debited by bank ₹ 3,000.	
	March	14 Settled Suresh's a/c of ₹ 3,030 by a cheque of ₹ 3,000.	
	March	The cheque of Varun is returned as dishonoured by the bank.	
	March	23 Cashed a cheque for ₹ 4,500.	
	March		
	March	*	
	March	Paid telephone bill ₹1120 by cheque including SGST and CGST @6% each.	
	March	Drew from bank for Income tax ₹ 4,000.	
25)	Prepar	e a Bank Reconciliation Statement of M/s Mohan on 30th June, 2018 with the following particulars:	(8)
		ass Book showed an overdraft of ₹15,000 on 30 th June, 2018.	
		cheque of ₹200 was deposited in the bank but not recorded in Cash Book.	
	_	neques of ₹ 17,000 were issued but cheques worth only ₹ 10,000 were	
	,	resented for payment up to 30 th June, 2018.	
	_	heques of ₹ 2,000 were received, recorded in cash book but not sent to bank.	
	•	Bank paid ₹ 300 fee of chamber of commerce on behalf of Mohan, which was debited in Cash Book.	
		Bank charged interest on overdraft ₹ 800 which was not credited in Cash Book.	
		₹ 40 for bank charges were recorded two times in cash book & interest on overdraft of ₹ 35 were not	
	_	at all recorded in Cash Book.	
	h)]	Total of credit side of bank column of Cash Book was under-cast by ₹ 1,000.	

FIRST TERM EXAMINATION, 2018

DATE: 14-09-2018

PHYSICS

Time: 3 Hours

1

1

1

1

1

2

2

2

2

3

M.M:70

General Instructions -

CLASS: XI

- i) All questions are compulsory.
- ii) Section A contains 5 questions of 1 mark each, Section B contains 5 questions of 2 marks each, Section C contains 12 questions 3 marks each, Section D contains one value based questions of four marks and Section E contains 3 questions of 5 marks.
- iii) There is no overall choice. However, an internal choice has been given in one question of 2 marks, one question of 3 marks and in all the three questions of 5 marks.
- iv) Use of calculator is prohibited.

SECTION A

1) Name the physical quantity which has unit, but no dimensional formula.

2) Draw position-time graph for two objects having zero relative velocity.

3) A cubical block rests on an inclined plane of $\mu = \frac{1}{\sqrt{3}}$. Determine the angle of inclination, when the block just slides down the incline plane.

4) A light body and a heavy body have same kinetic energy. Which one will have greater momentum? Justify your answer.

5) What are the physical quantities that get conserved in both elastic and inelastic collisions?

SECTION B

6) (a) State the principle of homogeneity of dimensions.

(b) Check the dimensional consistancy of the equation $F = 6\pi \eta r^2 v$ (where F= force, η = coefficient of viscosity, r = radius, v = speed)

7) The velocity-time relation of a particle starting from rest is given by V= Kt. Where K=2m/s². Calculate the distance travelled by the particle in 3 second.

8) Define limiting friction. What will happen to limiting friction, if

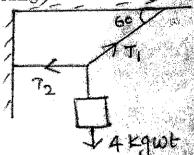
- a) area of contact is doubled?
- b) weight of the body is doubled?

9) Two masses 8 kg and 12 kg are connected at the two ends of the light inextensible string that goes over a frictionless pulley. Find the acceleration of the masses and the tension in the string, when

the mases are released (g=10m/s²)

(OR)

Determine the tensions T_1 and T_2 in the string s shown in the figure $(g=10\text{m/s}^2)$



10) a) What do you mean by conservative force? Give one example.

b) When conservative force does positive work on a body, will the potential energy of the body increases or decreases? Justify.

SECTION C

A large fluid star oscillates in shape under the influence of its own gravitational field. Using dimensional analysis, find the expression for period of oscillation (T), in terms of radius of the star (R), mean density of the fluid (ρ) and universal gravitational constant (G).

- 12) a) Write any two limitations of dimensional analysis.
 - b) In the equation $y = a\sin(\omega t kx)$, t and x stands for time and distance respectively. Obtain the dimensional formula for ω and k.

1+2=3

- 13) a) Distinguish between the terms precision and accuracy of a measurement.
 - b) A physical quantity X is given by $X = \frac{a^2b^3}{c\sqrt{d}}$. If the percentage errors of measurement in a,b,c and d are 4%, 2%, 3% and 1% respectively, then calcualte the percentage error is X.

1+2=3

Define centripetal acceleration. Derive an expression for the centripetal acceleration of a body moving with uniform speed V along a circular path of radius r. Give its direction.

3

The position of a particle is given by $r = 3.0t\hat{i} + 2.0t^2\hat{j} + 5.0\hat{k}$. Where t is in second and 'r' in metre. (a) Find v(t) and a(t) of the particle. (b) Find the magnitude of v(t) at t=1 s.

3

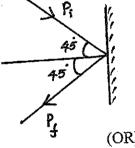
- 16) a) Define cross product of two vectors.
 - b) Determine a unit vector perpendicular to both $\vec{A} = 2\hat{\imath} + \hat{\jmath} + \hat{k}$ and $\vec{B} = \hat{\imath} \hat{\jmath} + 2\hat{k}$

1+2=3

- 17) Two parallel rail tracks run north south. Train A moves north with a speed of 54 km/h and train B moves south with the speed of 90 km/h. What is the
 - (a) relative velocity of B with respect to A?
 - (b) relative velocity of ground with respect to B?
 - (c) Velocity of a monkey running on the roof of the train 'A' against its motion (with a speed of 18 km/h with respect to the train A) as observed by the man standing on the ground?

3

- b) A ball moving with a momentum of 5 kgm/s strikes against a wall at an angle of 45° and is a) Define Impulse. Write its SI unit. reflected at the same angle. Calculate the change in momentum. $[|P_i|]=|P_f|$



a) State the law of conservation of linear momentum.

b) A bomb at rest explodes into three fragments of equal masses. Two fragments flyoff at right angles to each other with velocities 9 m/s and 12 m/s respectively. Calculate the speed of the 1+2=3thrid fragment.

19) A body tied to one end of a string is made to revolve in a vertical circle. Derive the expression for velocity of the body and tension in the string at any point. Hence obtain the condition for "looping the loop".

3

3

20) State the law of conservation of energy. Show that the total mechanical energy of a body falling freely under gravity is conserved. Show it graphically.

- 21) a) Define power. Prove that $P = \vec{F} \cdot \vec{V}$, where the symbols have their usual meanings.
 - b) A body is initially at rest. It undegoes one dimensional motion with constant acceleration. How is the power (P) related to time 't'?

2+1=3

- 22) a) State Work-Energy Theorem. Prove it for a variable force.
 - b) While catching a cricket ball of mass 0.2 kg moving with the speed of 20 m/s, the player draws his hand backward through 20 cm. Find the workdone in catching the ball.

2+1=3

SECTION D

- 23) Kavitha and her family was shifting to another city. Her mother asked for her help and pack the showpieces and crockery items carefully in paper and then in cardboard. Kavitha asked the reason for doing so. Mother answered her question so that Kavitha understood the reason for packing fragile items in paper or straw.
 - a) What values of Kavitha and her mother do you appreciate? (one value for each).

b) What is the basic principle behind, packing fragile items in paper or straw? Explain.

2+2=4

SECTION E

- 24) a) A projectile is fired with a velocity 'u' making an angle θ with the horizontal. Show that its trajectory is a parabola.
 - b) A body is projected such that the kinetic energy at the top is $3/4^{th}$ of its initial kinetic energy. What is the initial angle of projection with horizontal?

(OR)

- a) Two vectors \vec{A} and \vec{B} are inclined to each other at an angle θ . Derive an expression for magnitude and diection of their resultant.
- b) A motor boat is racing towards north at 25 km/h and the water current in that region is 10 km/h in the direction of 60° east of south. Find the magnitude of the resultant velocity of the boat.

 3+2=5
- 25) a) What do you mean by banking of curved road? Derive an expression for the maximum speed with which the vehicle can negotiate a banked curve.
 - b) A cyclist speeding at 18 km/h on a level road takes a sharp circular turn of radius 3 m without reducing the speed and without bending towards the centre of the circular path. The coefficient of fiction between the tyres and road is 0.1 Will the cyclist slip while taking the turn? (g=10 m/s²)

(OR)

- (a) Define angle of friction and angle of repose. Obtain their relation with coefficient of static friction. Write the relation between angle of friction and angle of repose.
- (b) A man of 65 kg stands stationary with respect to a horizontal conveyor belt that is acclerating with 1m/s². What is the net force acting on the man? If the coefficient of static friction between man's shoes and the belt is 0.2, up to what acceleration of the belt can the man continue to be sationary relative to the belt?

 3+2=5
- 26) a) What do you mean by elastic potential energy?
 - b) Derive an expression for the potential energy of an elastic spring with necessary figure.
 - c) Draw a graph showing the variation of potential energy and kinetic energy of a block attached to a spring, which obey's Hooke's law.

(OR)

- (a) What do you mean by elastic collision?
- (b) Prove that in an elastic one dimensional collision between two bodies, the relative velocity of approach before collision is equal to the relative velocity of separation after collision.
- (c) Show that when two bodies of equal masses collide elastically in one dimension, their velocities get exchanged after collision.

1+3+1=5

Date: 04.09.2018

First Term Examination, 2018

Time:	50 Min.
M.M.:	50

Class: XI

General Knowledge

General Instructions: All the questions are compulsory. Each question carries one mark. Write the correct answer in the box given against the question. Now was elected as the president of the constituent assembly on 11December 19467 Dr. Rajendraprassed	Name:	Roll. No	Class/Sec	,
* All the questions are compulsory. * Each question arries one mark. * Write the correct answer in the box given against the question. 1) Who was elected as the president of the constituent assembly on 11December 1946? a) Dr. Rajendraprassed b) Dr. B R Ambedkar c) Dr. Sacshhidananda Sinha d) AR S Aysur 2) Former Prime Minister Atal Bihari Vajpayee received 'Bharat Ratna' in the year a) 2014 b) 2015 c) 2016 c) 2016 d) Agasta d) Uttar Pradesh d) Odisha 4) The first nuclear reactor in India is- a) Dhurva b) Harsha c) Apsara d) Vipula 5) The new Prime Minister of Pakistan, Cricketer Imran Khan leads which of the political party, a) PML b) PTI c) MQM d) PPP d) Armed Forces Flag (asy is observed on a) December 7 b) December 25 d) Ram Thakur, is the chief minister of the state of, a) Hariyana b) Himmoshal Pradesh c) Ultrar Rhahel Pradesh d) Rajasthan b) Himmoshal Pradesh c) Ultrar Allshabad d) Rajasthan b) Hindels Farget Aircraft d) Unmanned Air Vehicle d) Manohar Joshi l) Azad Find Express runs between a) G. Waldvankar c) Nagmur-New Delhi d) Azad Find Express runs between a) G. Waldvankar c) Nagmur-New Delhi l) First speaker of Loksabha was – a) G. Waldvankar c) S. Mukherjee d) Which of the following states became the first to ratify GST Bill? a) Bihar b) Asom c) Kerala d) Chhattisgarh 13) The chairman of the GST council is a) RBI Governor b) Prime Minister d) Maharashtra d) Angobel mining place Kolar is situated in- a) Madhya Pradesh c) Andlra Pradesh c) Jolice President d) Which of the following states became the first to ratify GST Bill? a) The chairman of the GST council is a) Checking Blood Group c) Negwor of the Wice-President c) Speaker of Lok Sabha d) John Session of both Houses d) Maharashtra d) Checking Blood Group c) Negwor of the following is responsible for the spread of dengus? a) Calcium Carbonase c) Calcium Sulphate d) Which of the following is responsible for the spread of dengus? a) Anopbeles mosquito c) Mess of dengus? a) Ano				
Each question carries one mark. White the correct answer in the box given against the question. 1) Who was elected as the president of the constituent assembly on 11December 1946? a) Dr. Rajendraprasad b) Dr. B R Ambedkar c) Dr. Sackhidananda Sthah d) A K S Ayyar 2) Former Prime Minister Atal Bihari Vajpayee received "Bharat Ratna' in the year a) 2014 b) 2015 c) 2016 d) 2018 c) Pattachitra' is traditional painting belongs to- a) Maharashtra b) Kerala c) Uttar Pradesh d) Odisha d) The first nuclear reactor in India is- a) Dhurva b) Harsha c) Apsara d) Vipula c) The new Prime Minister of Pakistan, Cricketer Imran Khan leads which of the political party, e) PML d) PPI d) Armed Forces Plag day is observed on a) December 7 b) December 25 c) December 31 d) December 18 d) Alariyana c) Uttarakhand d) Rajasthan e) Hirayana c) Uttarakhand d) Rajasthan e) Pithiv'i is- a) Figher Plan c) Surface to surface Missile d) Ummanned Air Vehicle e) Nagpur -New Delhi d) Rajasthan e) National Defence Academy is situated at a) Khadakvasla b) New Delhi e) Nagpur -New Delhi d) Ag aliding Express runs between- a) Hovra-Pune e) Nagpur -New Delhi d) Rajasthan e) Sunkherige d) Manhar Joshi e) Which of the following states became the first to ratify (ST Bill' a) Bihar b) Asom c) Kerala d) Chhattisgarh l) Hire states of Josha hasom a) RBI Governor b) Prime Minister c) Finance Minister d) President b) Wanarnakka l) Horyandesh c) Andhra Pradesh c) Andhra Pradesh c) Andhra Pradesh c) Horyana d) Rajasthan l) Horyana e) Sunkherige d) Maharashtra d) Chhattisgarh l) Horyana e) Sunkherige d) Maharashtra d) Chhattisgarh l) Horyana e) Finance Minister e) Prime Minister l) Horyana d) Chhattisgarh l) H				
Write the correct answer in the box given against the question. 1) Who was elected as the president of the constituent assembly on 11December 1946? a) Dr. Rajendraprasad b) Dr. B R Ambedkar c) Dr. Sachhidananda Sinha d) A K S Ayyar 2) Former Prime Minister Atall Bihari Vajpayee received 'Bharat Ratna' in the year a) 2014 b) 2015 c) 2016 d) 2018 3) Patacchitra' is traditional painting belongs to a) Marasashra b Kerala c) Uttar Pradesh d) Odisha 4) The first nuclear reactor in India is a) Dhuva b) Harsha c) Apsara d) Vipula 5) The new Prime Minister of Pakistan, Cricketer Imran Khan leads which of the political party, a) PML 5) The new Prime Minister of Pakistan, Cricketer Imran Khan leads which of the political party, a) PML 6) Armed Forces Flag day is observed on a) December 7 b) Hirmachal Pradesh c) Uttar Pradesh d) Vipula 5) The new Prime Minister of Pakistan, Cricketer Imran Khan leads which of the political party, a) PML b) PIT c) MQM d) PPP c) Amed Forces Flag day is observed on a) December 7 b) Hirmachal Pradesh c) Uttar Pradesh d) Question of the political party, a) Phythan by Pith and the Care of Pakistan, Cricketer Imran Khan leads which of the political party, a) Phythan by Pith and the Care of Pakistan, Cricketer Imran Khan leads which of the political party, a) Phythan by Pith and the Care of Pakistan, Cricketer Imran Khan leads which of the political party, a) December 7 b) Hirmachal Pradesh c) December 31 d) December 18 7) Jaik Ram Thakur, is the chief minister of the state of, a) Hariyana c) Uttar Pradesh b) Filionanal Pradesh c) Pithinanal Pradesh c) Pithinanal Pradesh c) Which of the following states became the first to ratify GST Bill? a) Ribar By Pithinana of the GST council is a) Ribar By Pithinana of the GST council is a) Ribar By Pithinana of the GST council is a) Ribar By Pithinana of the GST council is a) Ribar By Pithinana of the GST council is a) Ribar By Pithinanan By Pithinana of the GST council is a) Ribar By Pithinana of th				
1) Who was elected as the president of the constituent assembly on 11December 1946? a) Dr. Rajendraprasad b) Dr. B R. Ambedkar d) A K S Ayyar 2) Former Prime Minister Atal Bihari Vajpayee received "Bharat Ratna" in the year a) 2014 b) 2015 c) 2016 d) 2018 c) Pattachitra" is traditional painting belongs to - a) Maharashtra b) Kerala d) The first unclear reactor in India is - a) Dhurva b) Harsha c) Apsara d) Vipula c) The new Prime Minister of Pekistan, Cricketer Imran Khan leads which of the political party, a) PML b) PTI c) MQM d) PPP c) MQM d) PPP c) MQM d) PPP c) Himachal Pradesh d) Rajasthan c) Uttar akhand e) December 7 b) December 25 c) December 31 d) December 18 c) Himachal Pradesh d) Rajasthan e) Pritivit' is - a) Figher Plan c) Uttarakhand e) Pritivit' is - a) Figher Plan c) Surface to surface Missile d) Hariyana c) Uttarakhand e) Pritivit' is - a) Figher Plan c) Surface to surface Missile d) Hariyana c) Surface to surface Missile d) Hariyana c) Walind Express runs between a) Howra-Pune c) Nagiour-New Delhi d) Azad Hind Express runs between a) Howra-Pune c) Nagiour-New Delhi d) Azad Hind Express runs between a) G.V. Malyankar c) S. Mukkerjee d) Which of the following states became the first to ratify (ST Bill? a) Bihar b) Asom c) Kerala d) Chhattisgarh c) Himachal Pradesh d) Manohar Joshi d) Rajaganh-H.Nizamuddin d) Rajaganh-H.Nizamuddin d) Rajaganh-H.Nizamuddin d) Rajaganh-H.Nizamuddin d) Rajaganh-H.Nizamuddin d) Chhattisgarh d) Chhattisgarh d) Chhattisgarh d) Chhattisgarh d) Chhattisgarh d) Chhattisgarh d) Checkend Ploce of the council is a) RBI Governor b) Prime Minister d) Karanataka d) Challer President d) Karanataka d) Checkend Ploce of the council is a) RBI Governor b) Prime Minister d) Rajaya Sabha d) Joint Session of both Houses d) Tree President d) Rajaya Sabha d) Joint Session of both Houses d) Tree President d) Rajaya Sabha d) Tree President e) Cobalt-60 is used for a) Checking Blood Group c) X-ray of brain e) The main component of bones and teeth is a) Calcium Sulphate e) Calcium Sulphate		n against tha anes	rinn '	
a) Dr. Rajendraprasad c) Dr. Sachhidananda Sinha d) Ak Sa Syyar 2) Former Prime Minister Atal Bihari Vajpayee received 'Bharat Ratna' in the year a) 2014 b) 2015 c) 2016 d) 2018 3) 'Pattachitra' is traditional painting belongs to a) Maharashtra b) Kerala c) Uttar Pradesh d) Odisha d) The first unclear reactor in India is a) Dhurva b) Harsha c) Apsara d) Vipula 5) The new Prime Minister of Pakistan, Cricketer Imran Rhan leads which of the political party, a) PML b) PTI c) MQM d) PPP c) Apsara d) Vipula 5) The new Prime Minister of the state of, a) Hariyana c) Uttar Rhand is observed on a) December 7 b) December 25 c) December 31 d) December 18 7) Jal Rem Thakur, is the chief minister of the state of, a) Hariyana c) Uttarakhand d) Rajasthan b) Himachal Pradesh c) Uttarakhand c) Uttarakhand d) Rajasthan b) Pilotless Target Aircraft d) Ummanned Air Vehicle 9) National Defence Academy is situated at a) Khadakavsla b) New Delhi c) Wellington d) Dehradun d) Rajagrh-H.Nizamuddin 11) First speaker of Loksabha was a) G.V.Malvankar d) Sachindra Ray d) Manobar Joshi 12) Which of the following states became the first to ratify GST Bill? a) Bihar b) Asom c) Kerala d) Chhattisgarh b) Maharashtra d) Karnataka c) Finance Minister d) Karnataka c) Finan	Write the correct answer in the box give	n against the ques	MOH.	
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a) Lachrymal b) Pituitary c) Thyroid d) Pancreas 22) Total volume of blood in a normal adult human being is a) 3-4 litres b) 5-6 litres c) 8-10 litres d) 10-12 litres 23) Potato is the modified form (outgrowth) of a) root b) leaf c) flower d) stem		*	ąuπ⊖	
22) Total volume of blood in a normal adult human being is a) 3-4 litres b) 5-6 litres c) 8-10 litres d) 10-12 litres 23) Potato is the modified form (outgrowth) of a) root b) leaf c) flower d) stem			d) Pancreas	
a) 3-4 litres b) 5-6 litres c) 8-10 litres d) 10-12 litres 23) Potato is the modified form (outgrowth) of a) root b) leaf c) flower d) stem	22) Total volume of blood in a normal adult h			
23) Potato is the modified form (outgrowth) of a) root b) leaf c) flower d) stem		c) 8-10 litres	d) 10-12 litres	
a) root b) leaf c) flower d) stem	23) Potato is the modified form (outgrowth) o	f	15	
r.JA	a) root b) leaf	c) flower	a) stem	P.T.O.

243	The vegetation of the Thar desert consists of					
279		n) I	Mesophytes	<i>d</i>) 3	Thallophytes	
A #\			1 2	uj.	indirophy too	٠ ـــــــــــا ٠
25)	Which of the following creatures has no blood		_	15 1	· ·* 1	
		•	Fish	a) 1	Hydra	
26)	Which one of the following is the smallest dis	tric	t of C.G. State?			11
	a) Bijapur b) Dantewada	c)]	Korba	d) 1	Kavardha	
27)) In which of the following districts are Chitra	ikot	waterfall situated?	•		
•			Bilaspur	d)]	Durg	
28)	ICC World Cup 2019 will be jointly hosted by		•	•		<u> </u>
/			South Africa		•	
		•	England			
20)	The main constitutes of bronze are –	ч,	Liigiana		·	
259		L	Tood & Tim			
	· ·	-	Lead & Tin			<u> </u>
	, 11	d)	Copper & Tin			
30)	The chief constituent of LPG is				_	
	a) hydrogen b) methane	c)	ethane	d) .	Propen	
31)	Plaster of Paris is made from -					
•	a) bauxite b) cysteine	c)	glycine	d)	gypsum	
32)	The chemical which is used to purify water is	•	••	•	-,· -	
,	a) Borax	b)	Sodium benzoate		•	
	c) Potassium permanganate		Sodium Hydroxide		r	<u></u> i
22)	The chemical name of a major constituent of I		-			
333	· —			as.	Dunanan	
	, ,	-	ethane	a)	Propen	<u></u>
34)	Which of the following is the hardest substance					
	a) Copper b) Diamond	e)	Iron	d)	Silicon	
. 35)	Which of the following laws does not relate to	ga	ses?		•	
ŕ			Gay-Lussacs law	d)	Ohm's Law	•
36)	When ice melts in a beaker of water, the level					
50)	a) increase		decrease		•	
	c) remain same		first increase then de	ectes	ace	
271	•	uj	mst merease men e	00100	150	,
31)	A submarine works on the principle of		Dest	.T.	Daggal	
	a) Newton b) Archimedes	C)	Boyle	a)	Pascal	L
38)	Velocity of sound is minimum in					
	a) Air b) Water	c)	Steel	d)	Vacuum	
39)	Unit of energy used in atomic physics-					
•	a) joule b) electron volt	c)	erg	d)	kwh	
40)	The colours in a rainbow are due to	,	0			
,,,	a) Interference b) Reflection	6)	Diffraction	d)	Dispersion	
41)	A rocket works on the principle of conservat	-				<u>.</u>
. +1)						
	a) Mass		Energy			
	c) Linear momentum		Angular momentur		T.	
42)	How do we better know the South Indian act			17		
	a) Rajnikanth b) Nagarjun		Dhanush	•	Chiranjeevi	
43)	A SONAR which detects the presence of an					
	a) Sound waves b) Radio waves	c)	Infrared waves	d)	Ultrasonic waves	
44)	The total energy radiated from a black body	is e	qual to the fourth po-	wer		
ĺ	of its absolute temperature is -		•			
	a) Coulomb's law	b)	Pascal's law			
	c) Hooke's law	•	Stefan's law			-
45	Which of the following mirrors is used as rea	-				
45,			concave mirror			
	a) convex mirror	,				
	c) plane mirror	a)	paraboloidal mirrer			
46	Manometer is used to measure					
	a) Earth quakes b) Rainfall	c)	Ocean depth	d)	Gas pressure	
47) Philately is the study of					
	a) Coins b) Numbers	c)	Stamps	d)	Space	Γ
48	'Samaveda' chiefly contains:		•		-	L
-10	a) early Aryan culture	h	methods of vedic y	aons	ns	
			Origin of Hindu G			
	c) collection of hymns to God	,		-C43		
49	The first lady Prime Minister of the world wa			to1 -	•	
	a) Smt. Sirimavo Bandaranaike		Mrs. Margaret Tha	une	1	
	c) Smt. Indira Gandhi	d)				
50) Which game is associated with the Durand C			-		
	a) Hockey b) Football	c)	Badminton	d)	Golf	