HOLIDAY HOMEWORK

· Letter Writing

Holidays. Write a letter to the Director, fortune Graphics computers, inquiring about their short-term course and asking for all the ne cessary details. You are Anuj/Anju of 28 A, uttarn Nagar, New Nelhi belhi [enquiying letter]

2. Your wheat to Neeraja shekhar, Principal, Vasant Public School, Rone. Your school has just started a music department. Write a letter to the Monager of Melody House, Rune, wholesale suppliers of musical instruments, placing an order for musical instruments for the school. Ask for a discount on the catalogue prices. Eplacing an order

3. The unsanitary conditions in your colony are causing multiple diseases Write a letter to the Munipal Commissioner bringing the problem to his notice and reguest him to take urgent action in the matter. You are Deepaled Deepal matter. You are Deepak/ Deepa of C2/8, Ankur Enclave, New Delhi C complaint letter y

· Story Writing~

1. Very interesting — cooking — mother - ill - wanted - cup of tea - first for - switch on the burner - then forgot to add water — made tea no sugar — mummy still hugged me.

2. Politeness - related - humility - polite child - liked - soft spoken - patient listener - able to help other - carries good image - family background

· Writing five interesting articles from Newspaper &

ii) Education

ais Women Empowerment

ciij Smoking in public places should be banned

iv) Selling Tobacco should be banned (v) Population Exeplosion

effect and remedius czoo words]

· Read the story book 'A Monk who sold his old ferrarl.

S.S.T Holiday Homewoork

- Find out more about anyone of the revolutionary figure you have read about in the chapter "french Revolution". write a short biography of this person.
 - 1. Why most of the world's desert is lockled in the western margin of confinent of the subtropics?

 Explain.
 - 2. Map skills :-
 - (a) would map.
 - · 20 Rivers
 - · 10 Mountain Ranges
 - · 20 Lakes
 - · 20 countries and its capital
 - (b) Map of india :-
 - · Important Rivers
 - · Natural vegetation
 - · Mountain Ranges

Maths Holiday Homewark

- 1. Draw a spiral root design on A-3 size sheet.
- 2. Prepare a working model on any topic related math text book.

- (a) Plant cell and Animal cell (Roll no. 1405)
- (b) Section of a stem (Roll no 6 to 10)
- (c) Table of electron Distribution in various shells (Roll no-11tols
- (d) Name and Symbols of some ions (Roll no. 16 to 20)
- 2. Prepare a project on -
- (a) Newton (Rollno 1 to 5)
- (b) Galileo Galifei (Roll no 6 to 10)
- (c) Camillo Galgi (Roll no. 11 to 15)
- (d) J.J Thomsons (Roll no. 16 to 20)
- 3. Revise all chapters have done till now.

Information Technology

- using various jeatures of M.S word, design a page informing about yourself.
- 2. write Notes on "Communication skills" on M.S word.

Make a greeting card on fatheris day on M.S word using its features like orientation, column etc Take printouts of above mentioned questions and bring them in a folder. Make a beautiful chart on one of the following topics :- (According to your Roll no.) (Roll no - 1+05) Types of communication Elements of the communication (Roll no. 6 to 10) Computer memory Take helpfrom (Roll no. 11 to 15)

Storage device (1) (11) ciii storage device Leath the syllabus have done in class. (v) हिन्दी 5. (क) 418-1,2,3 के शह्यार्थ, प्रमारांश, भारांश, भीटबुक में ५०-। क्षितिज भागा-। गद्य खंड :-लिखें और याद करें। (ख) निम्न काट्य रवंड की भप्रसंग व्यास्थ्या करें:-भारिवयाँ (कवीर) (मबीर) अबद (लल ध्र4) वरिव (111) (iv) भवें (रसरवान) पाठ -। इस जल प्रलय में (के पश्न इतर, भारांश नीरबुक <u>५०-२</u> कारीका :-निम्न विषयों पर असाइनमेंट तैयार की जिल 40-3 वाक्य के आधार पर वाक्य भेदा 1-7 उपसर्ग - ७ त्यय और संभास 8-14 15-20 अलंकार (51)

- अनुभव के आद्यार पर एक अनुचेद लिखिए।
- ५०-५ पशु-पित्रमीं पर लिखी किताओं का भंग्रह करें और
- अर्थीक के फूल और नार्शन क्यां वहते हैं पिटए औं अपनी नीटबुक में उनका सारांश लिखिए /
- ५०-२ निवंदा लेखन :-
 - (क) किसी भैच का आँखी देखा वर्गन/
 - (श्व) कंम्पूटर और टी०बी० का जीवन पर जमाव/
 - (ग) बढती जनसंख्या राक समस्या
 - (च) कीरीना वायरस रव्क महामारी /
- ५०-४ पत्र लेखन :-
 - (क) शांजधानी दिल्ली में महिलाओं / लड़ाके यों के प्रति बढ़तें व अपराद्यों की रोकने के लिए दिल्ली पुलिस आयुक्त की पत्र लिखिए /
 - (ख) आपका टैलीफीन दी सप्ताह से रवराब है। अपने देत्रीय कार्यालय में कई बार शिकायत की है। किंतु पारेगाम एथों का त्मों है। इसकी शिकायत करते हुए उबंद्यक महानगर टेलीफीन निगम लिमिटेंड की प्र लिखिए।

म् युर्व

CHAPTER- I [NUMBER SYSTEM]

- 1. Find three reational numbers between 5 and 5.
- 2. Find four reational numbers between to and to.
- 3. Locate No and NT on the number line.
- 4. Express the following in the form of, where pand q vie integers and q \$ 0.
 - a) 0.888....

c) 0.2555----

b) \$16 x 7128

e)
$$\frac{2\sqrt{3}}{3} - \frac{\sqrt{3}}{6}$$

6. Rationalise the denominator of:-

c)
$$\frac{2+\sqrt{3}}{2-\sqrt{3}}$$

$$d) \frac{\sqrt{6}}{\sqrt{2}+\sqrt{3}}$$

7. Find the value of a and b: $\frac{5+2\sqrt{3}}{7+4\sqrt{3}} = a-6\sqrt{3}$ (ii) $\sqrt{2}+\sqrt{3} = 2-b\sqrt{3}$

8. If a= 2+1/3, then find the value of a-1.

CHAPTER-2 [POLYNOMIAL]

- 1. Simplify! (i) (22-5y) (22+5y)
- 2. If a+b+c=5 and ab+bc+ca=10, then prove that a3+b3+c3-3abc=-25.
- 3. Using suitable identities, evaluate: a) 102 × 101 d) (39-26)
 - b) $(103)^3$ e) $(\frac{1}{2} + \frac{1}{3})^3$ e) $(\frac{1}{2} + \frac{1}{3})^3$ f) $(4 \frac{1}{3}n)^3$
- 4. If a+b+c=9 and ab+be+ca=26, find a+b+c?
- 5. factorise: (i) n-6n+11n-6 (ii) n3+n2-4n-4
- 6. Factorise: 10 n²-21x+110 (iii) y²+7y-144 (ii) $n^2 - 17n + 60$ (iv) $n^2 - 6n - 135$
- 7. Using suitable identities, solve the following!
- a) $\left[\frac{5}{6}a^2 2\right] \left[\frac{5}{6}a^2 2\right]$ b) $\left(-3a + 5b\right)^2$ c) $(a+\frac{1}{3})(a-\frac{1}{3})$ d) $(a^2b-bc^2)^2$
- 8. If x + n = 11, find the value of! a) $n^2 + \frac{1}{n^2}$ b) $n^2 + \frac{1}{n^4}$
- 9. If n+n=6, find the value of n3+1,3
- 10. If 22+6y = 60 and my = 1, find n2+9y2

PSM WORLD SCHOOL CLASS - TX SUB - SCIENCE WORKSHEET CHAPTER- I [MATTER IN OUR SURROUNDINS] 1. Define datent heat. 2. Define boiling point. 4. Convert the following temperature to celsius scale
a) 296 K b) 673 K c) 539 K 3. Define melting point. 5. write all the factors that Affecting evaporation. 6. Why do me see mater droplets on the outer surface of a glass containing ice-cold water? CHAPTER-5 [The Fundamental unit of Life] 1. Défine :- a) hypotonic solution b) Isotonic solution c) hypertonic solution 2. Differentiate between RER and SER. 3. wite the functions of :
a) Mitochonduia b) Golgi apparentus d) Plastids c) lysosomes 4. wente the full form of the following: a) DNA b) ATP e) SER 5. ruhat mould happen if the plasma membrane reptures or break down?

CHAPTER -8 [MOTION]

- 1. Differentiate between uniform and non-un
- 2. Differentiate between Displacement and
- 3. Define uniform circular motion.
- 4. Dérime the equation 295 = v^2 u^2.
- 5. serine the equation v=u+at.

014000

they a contained

men Antersonat was for

melanic solution

hindsolver and the

P.S.M WORLD SCHOOL GLASS - IX Sub - English WORKSHEET (1) Fill in the blombs with oppose private modals. (i). Boldiers ____ obey orders without only question. (ii) 1 mish you-fight this election.
(iv) He works that lest he --- fail. (2) Fill in the blonk with suitable prepasitions: (i) The girl jumped --- the scoot (tolform) of) (ii) He put avanges -- -- a basket (upon/to/into)
(iii) The Sum Went to __ Cloyds. (Behind on to)
(iv) Com you tell me the way -- - the airport? (to/in/at)
(v) They walked -- -- the green Pield and reached
the bonk of the river (affacross/for) 3) Choose the option with the correct form of verb that agrees with the Subject. (i) The occapilations of the administocation --- forom the avoiculum. (9) Stem (b) Stems (C) Stemming (d) are stemmed (ii) The Children of the mon who works with me broken the window this morning. (a) were (b) have (C) had (D) has

(11) One mrn among the Ocew - into the Water every week
(a) dive man among the Grew into the water every week
(b) had dis-
O divipor
a that the
(iv) The men of the Community not suppose
(E) does
(b) have
(c) has (d) do
(V) Few Students who Playing football missed the class
a) would be
(b) Could be
(c) had
The following parsage needs to be edited there in one octor in the following parsage needs to be edited there in one octor in each line against which you find a blank. Write the incorrect lach line against the correct blank number. Word and the correction against the correct blank number. (i) Curves may have made a comeback two identities and it's
Cocaine chic cel-
Cocaine chic cel
" out also they want to ear
at the (c)
- un u food laints. I'm
Coke (d)— (at dinner, they starve themselves thought while short they ever hwiting themselves thought while short term so vial acceptance (e)—
at dinner, they start while short
they evel hweting the reservance (e)
tem sound and

General Instructions:

- This question paper contains 3 parts- Reading. Writing and Grammer, Literature.
- Separate instructions are given with each section and question, whenever necessary. Read these instructions very carefully and follow them.

Section - A (20 Marks)

READING (20 Marks)

Read the passage given below.

Maggie is a golden doodle. However, she turned out to be more golden than a doodle. She has lots of energy. is very loving, a people pleaser, soft and she loves every minute of life. But when she was small, we called her "The Demon". She loved to jump on me, bite me, and steal anything. My goal had been to get a dog that would keep me walking every day. But more than that, I am in a period of my life where I was looking for a way to give back. Seeing Maggie's loving personality and high energy, I realized that Maggie needed a job and I needed to volunteer, and if we worked together, we could both have that. But the little "demon" needed to be tamed! After going through beginner and intermediate obedience at Canine Academy, I knew that Maggie would benefit from the Off-Leash program and that would help her get ready to become a therapy dog so that she could be busy and I could give back.

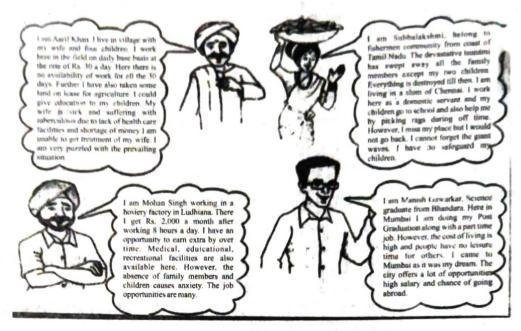
She is home from the Academy now, and what a great dog she is! She loved her training and did very well at Canine Academy. Walks that used to be difficult because, at 75 lbs, her pulling on the leash was hard on me, are now a pleasure. We walk twice every day and she has many friends in the neighbourhood, that have watched her grow from an unruly puppy to a beautiful companion, thanks to the Canine Academy. We train every day and she loves to attend the weekly training sessions that the Off-Leash graduates take part in. Lisa and her trainers gave Maggie the tools she needed to be an absolutely wonderful dog. Now we work together to fine-tune those tools and everyone that knew her before is quite impressed by how well-behaved she is now. My life is so much better with Maggie in it, but part of that is thanks to the wonderful

people at the Canine Academy and the great work they do with dogs. If I ever add to my dog family, we will surely be calling them again! On the basis of your understanding of the above passage, answer the questions given below: $(1 \times 10 = 10)$ Who is Maggie? i. What qualities of Maggie are mentioned by the author in the li. opening paragraph? (a) She is soft and loving (b) She is a villain (c) She bites everyone (d) She is always low on energy What was Maggie called when she was small? iii. What is the name of academy she goes to? iv. (a) Off-Leash Academy (b) Academy of Dogs (b) Canine Academy (d) Dog Family What training programmes did Maggie undergo? V. (a) Beginner Obedience Programme (b) Intermediate Obedience Programme (c) Advaiced Obedience Programme (d) Off-Leash Training Programme (a) Only (A) and (B) (b) Only (A), (B), and (C) (c) Only (A) (d) Only (A), (B), and (D) vi. What change occurred in Maggie after training? (a) She became high on energy (b) She had a soft fur now (c) She became a people pleaser (d) She became well behaved vii. Narrator's life is better within it. viii. The narrator wanted Maggie to become adog. What is meant by the word, 'tamed'? (Para 1) ix. What is meant by the word, 'obedience'? (Para 1) X. (a) faithfulness (b) servility (d) respect (c) calmed Read the passages given below. 2. People, generally are emotionally attached to their place of birth. But millions of people leave their places of birth and residence. There could

be a variety of reasons. These reasons can be put into two broad

categories:

Apart from these factors, natural disasters such as floods, drought, cyclonic storms, earthquakes. tsunami, wars and local conflicts also give an extra push to migrate. On the other hand, there are pull factors that attract people from rural areas to cities. The most important pull factor for the majority of the rural migrants to urban areas is the better opportunities, availability of regular work and relatively higher wages. Better opportunities for education, better health facilities and sources of entertainment, etc. are also quite important pull factors.



- push factor, these cause people to leave their place of residence or origin; and
- ii. pull factors, which attract people from different places. In India. people migrate from rural to urban areas mainly due to poverty, high population pressure on the land, lack of basic infrastructural facilities like health care, education, etc.

On the basis of your understanding of the passage, answer the questions that follow: $(1 \times 10 = 10)$

- According to the passage. one of the reasons for Subbalakhsmi and Mohan Singh do not wish to go back to their places of birth or residence is that the:
- Pick the option that lists statements that are NOT TRUE according to the passage.
 - (a) Push factors are quite a compulsion for rural people to move to a city.
 - (b) All those who migrate to cities have to bear the separation of their families.
 - (c) Pull and push factors are equally responsible for migration from rural areas to city.

- (d) Only educated youth are shifting their residence in search of jobs.
 - (a) A and B

(b) B and D

(c) B and C

(d) A and B

- Name 2 Natural Disasters as given in Para 2.
- Based on the paragraph, choose the option that correctly states the ratio iv. or Push factors and Pull factors for shifting from places of birth.



- "...wars and local conflicts also give an extra push to migrate." The V. phrase an extra push stimulating migration is mainly a reference to:
 - (a) situations that are critical for migration
 - (b) situations that add up to the main reason for migration
 - (c) conditions that push the villagers even when they do not wish to migrate
 - (d) conditions when they are forcefully evicted from the rural areas to the
- Based on the stories of four characters in the passage, choose the vi. option that lists the statements that are TRUE with respect to life in their own villages.
 - (a) The city gives everything but not the pleasure of family members and children.
 - (b) Villagers often suffer from poverty and they lack basic health services
 - (c) All villagers have to survive through the fatal tsunami.
 - (d) Children remain deprived of education in villages.

(a) A and C

(b) B and D

(c) A and B

(d) C and D

- vii. Based on the given stories of Subbalaksmi and Manohar Singh, pick the option that lists the main reason which causes more worry to one of them.
 - (a) All family members have been washed away by a tsunami in the village.
 - (b) He is away from his family members and children.
 - (c) She has to work as a domestic servant and rag-picker.
 - (d) He has to work and earn extra income by doing overtime.

Viii.	In the comic strip above, out leaving the village because character is	of the four characters, one has no regrets of of a strong emotional push factor and that					
		(A) (B) (A) (B) (4)					
ix.	Arrange the given pull factor cause of shifting places of bit the writer:	ors from the least likely to the most likely rth and residence, as per the order stated by					
	(A) better opportunities for ed	ducation					
	(B) poverty						
	(C) pressure of population						
	(a) A, B, C	(c) C, A, B					
	(b) B, C, A	(d) C, B, A					
X.	The reasons why people leav	ve their birth place and residence can be put					
	into broad categories:						
	SECTION - B Grammar and	Writing					
3.	Choose the correct options	for of the following question.					
		10x1=10 Marks					
i.		oout your trip to Denver.					
	(a) Sitting down, tell	(b) Having sat down, told					
	(c) Sit down, tell	(d) Sitting down, telling					
11. 1	tennis every Sunday						
	(a) am playing	(b) play					
iii.	(c) playing	(d) am play					
101.	One of the booksbe (a) have	T					
	(c) are	(b) is (d) has					
iv.	Studentsborrow up						
	(a) are allowed to	(b) would					
	(c) should	(d) could					

stop when the traffic lights are red.

Drivers_

V.

	(a) may (c) could			(b) m	nust hould		
⁄İ.	There is	wate	er left, so drin	nk only if yo	ou must.		
	(a) much				ome		
	(c) little				one of these		
vii.	My succe	ess	blunt	, ()		1 6	
	(a) is			(b) 8	an		
	(c) are			(d) v			
viii.		vell as his frier	nde	going.			
VIII.		ven as ms mer	103	_gog. (b)	an		
	(a) is				has		
iv	(c) are	door not noss	os qualities	, ,			
ix.	Animais	does not poss	es quanties				
	error	correction					
x.	They ha	ve there own t	alents.				
	error	correction					
		20.71					
4.	Attemr	ot ANY ONE of	f the follow	ing in 100	-120 words	(5 marks)	
4.	a) You	have seen inr	nocent child	ren worki	ng in a factor	ry in hazardous	S
	condition	ns.					
	Write a	diary entry exp	oressing you	ur views or	n child labour.		
			C	R			
	b) See	ma decided to	write a sto	ory for he	r school mag	azine, but afte	r
						work. Complet	е
	the stor	y on the basis	of the begin	ning given	below.	thom Ones b	_
			two daught	ers. He lo\	ed both of the	e them. Once h	е
	asked t				ad marratala	nonka and th	
58	a) Srinaga	ar with its Da	i Lake, the	snow ci	ad mountain	peaks and th	е

OR

words describing the place.

b) Last summer vacation you went to your friends village. His/her grandmother looked after you as if you were her own grandchild. Describe her in 100-120 words.

Shalimar garden is nothing but a paradise on earth. You visited this beautiful city sometime back. Write a descriptive paragraph in 100-120

LITERATURE

6. Read any one of the extracts given below and answer the following questions: (5x1)

I was one of many children- a short boy with rather undistinguished looks, born to tall and handsome parents. We lived in our ancestral house, which was built in the middle of the nineteenth century. It was a fairly large pucca house, made of limestone and brick, on the Mosque Street in Rameswaram. My austere father used to avoid all inessential comforts and luxuries. However, all necessities were provided for, in terms of food, medicine or clothes. In fact, I would say mine was a very secure childhood, both materially and emotionally.

- i. What did his father often avoid?
 - (a) Non-essential comforts and luxuries
 - (b) Taking proper medication
 - (c) Wearing clothes
 - (d) Eating a nutritious and healthy meal
- ii. What necessities did the author talk about?
 - (a) In terms of food

(b) In terms of clothes

(c) In terms of medicine

(d) All of these

iii. Write the meaning of 'secure'.

(a) Safe

(b) Sad

(c) Sedentary

(d) Sure

- iv. Describe Kalam's childhood.
- v. Where was Kalam's ancestral house located?

OR

But to everyone's surprise, the unborn child's grandmother, who was standing closeday, told him that they did not want a son. The holy man was also surprised.

- i. What blessing did the holy man give earlier?
 - (a) for peace and prosperity

(b) for success

(c) for the birth of a son

(d) for the birth of a daughter

- ii. What request did the unborn childs' grandmother make to the holy man?
- iii. The synonym of 'nearby' from the above lines-

	(a) standing	(b) close by					
	(c) surprise	(d) holy					
IV.							
V.	The grandmother referred in the p						
	(a) Kezia's grandmother	(b) Kalams' grandmother (d) Santosh Yadav					
_	(c) Santosh Yadav's grandmother						
7.	Read the extract given below and	answer the following questions. (5x1)					
	Then took the other, just as fair,						
	And having perhaps the better claim	n,					
	Because it was grassy and wanted						
	Though as for that the passing there						
	Had worn them really about the same						
i.	•	How was 'the other road' projected to be in the given lines?					
-	(a) Grassy	(b) Less trodden					
	(c) Fair	(d) All of these					
ii	i. What has been termed as 'fair' in the	e given stanza?					
i	Write a similar word for 'probably' from the given stanza.						
	(a) Fair	(b) Perhaps					
	(c) Grassy	(d) Really					
i	v. Give antonym of word 'claim'.						
	a. Disclaim	b. Disclosure					
	c. Discover	d. Dislike					
١	v. Name the poet of the given stanza.						
	OF	₹					
	It is the human earth that we defile.						
	Our hells of five and dust outrage the innocense of air that is everywhere						
	our own.						
	Remember, no men are foreign, ar						
	i. Hells of five refers to destruction						
	(a) forest fires	(b) arms used in war					
	(c) volcanoes	(d) all of the above					
	ii. According to the poet, human be	ne same meaning as 'define'?.					

- (a) pollute
 (c) cleane
 (d) contaminate

 iv. The poem conveys the message of
 v. In the poem the poet empharizes that we should not consider anyone as our(a) brother
 (b) soldier
 (c) enemy
 (d) beloved
- Answer ANY FOUR questions in 40-50 words each:

(4x3=12 marks)

- (a) How did Evelyn's teachers respond when she expressed her desire to play the xylophone?
- (b) Who was Sivasubramania lyer? What did he say to Abdul?
- (c) What ways did Kezia's grandmother encourage her to get to know her to father better?
- (d) Describe the views of Margie about the old kind of school.
- (e) What kind of student was Einstein in high school?
- Answer ANY TWO questions in 40-50 words each:

(2x3=6 marks)

- (a) What was the child's reaction on seeing a man holding a pole with yellow, red, green and purple balloons? Write your answer in the context of The Lost Child.
- (b) What did the swallow do before planning for his flight towards Egypt on the second night? Write your answer in the context of The Happy Prince.
- (c) Where did Sergei see Lushkoff after two years? What work was he doing then?
- 10. Answer ANY ONE of the following in 100-120 words (5x1 = 5 marks)
 Why did Margie hate school? Why did she think the old kind of school must have been fun?

OR

Why did the saint punish the woman? What was the punishment? Write your answer in the context of Poem 'A Legend of the Northland.'

11. Answer ANY ONE of the following in 100-120 words (5x1 = 5 marks)
What role did Narrator's school play in normalising his life after the fire accident?

OR

Why did the people choose and crown the Guru and his disciple?

पी एस एम वर्ल्ड स्कूल वार्षिक परीक्षा (२०२२-२३) विषय- हिंदी कक्षा- नौवीं

समय: 3 घंटे प्रo 1 नीचे दिए गए गद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए। अधिकतम अंक: 80

(5)

जीवन रुकने का नहीं चलते रहने का नाम है। कुछ लोग असफलता की अवस्था में निराश होकर अपने उत्साह का दामन छोड़ बैठते हैं। भूल जाते हैं कि परिश्रम एवं प्रयत्न में तो भाग्य को बदल देने की भी क्षमता रहती है। बंसी बन कर रोना-धोना व्यर्थ है। मनुष्य इस संसार का सर्वश्रेष्ठ प्राणी है। अत: उसे अपना जीवन सार्थक बनाने के लिए आशा का सहारा लेना चाहिए। आलसी बनकर समय व्यर्थ बिताना अपने साथ अन्याय करना है। हमें अपने साधनों एवं क्षमताओं का प्रयोग कर प्रगति के पथ पर बढ़ना चाहिए। हमें भावात्मक कार्य की अपेक्षा रचनात्मक कार्य करना चाहिए। दु:ख में घबराना कायरता का प्रतीक है। हर शाम के सूरज को ढलना ही है। रात को आना ही है तो क्या अधेरे में हाथ पर हाथ रखकर बैठे रहा जाए या उठकर एक दीपक जला लें। सूर्य के समक्ष दीपक की क्या बिसात! पर एक दीपक भी पर्याप्त है एक घर को रोशन देने के लिए।

क) जीवन नाम है –

i) स्वासों के आवागमन का

ii) आत्मविश्वास का

iii) निरंतर कर्मरत रहने का

iv) ईश्वर के प्रति आस्था का

ख) असफलता की स्थिति में, व्यक्ति का कर्तव्य है-

i) निराश होकर कर्म करना छोड दें

ii) आशावादी बनकर निरंतर परिश्रम करें

iii) भाग्य के भरोसे स्वयं छोड दें

iv) उत्साह का दामन छोड़ दें

ग) प्रगति के पथ पर अग्रसर होने के लिए आवश्यक है-

i) परिथितियों के साथ समझौता करना

ii) अनुकूल समय की प्रतीक्षा

iii) किसी भी प्रकार की कीमत चुकाने हेतु तत्परता

iv) अपनी क्षमताओं व साधनों का समुचित प्रयोग

घ) लेखक के अनुसार भावात्मक और रचनात्मक कार्यों में ज्यादा महत्वपूर्ण है-

i) भावात्मक

ii) रचनात्मक

iii) i. और ii. दोनों

iv) दोनों में से कोई नहीं

ड़) 'एक दीपक भी पर्याप्त है घर को रोशन करने के लिए'- पंक्ति से अभिप्राय है 'एक दीपक भी पर्याप्त है घर को रोशन करने के लिए'- पंक्ति से अभिप्राय है-

i) अँधेरा दूर करने का प्रयास

ii) दीपक जलाने की प्रेरणा

iii) छोटी छोटी उपलब्धियाँ प्राप्त करने की प्रेरणा

iv) दीपक की महत्ता

प्रо 2 अपठित पद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए।

(5)

है जनम लेते जगह में एक ही, पौधा उन्हें है पालता।

रात में उन पर चमकता चाँद भी,

सी चाँदनी है डालता।

छेद कर काँटा किसी की उँगलियाँ, फाड़ देता है किसी का वर वसन। प्यार डूबी तितलियों के पर कतर, और का है बढ़ देता श्याम मन। फूल लेकर तितिलयों को गोद में, और को अपना अनूठा रस पीला। निज सुगंधों को निराले ढंग में, है सदा देता कली जी को खिला।

> है खटकता एक सबकी आँख में, दूसरा है सोहता सुर-सीस पर। किस तरह कुल की बड़ाई काम दे, जो किसी में हो बड़प्पन की कसर।

- क) इस कविता के लिए कौन सा शीर्षक सर्वाधिक उपयुक्त रहेगा?
- ख) 'वर वसन' में किस अलंकार का प्रयोग है?
- ग) काँटा क्या काम कर देता है?
- घ) फूल क्या काम करता है?
- ड़) इस कविता में क्या शिक्षा दी गई है?

प्रo 3 निम्नलिखित शब्दों और प्रत्यय अलग कीजिए-

 $(2^{1}/_{2})$

i) गैरजिम्मेदार

ii) अनावश्यकता

iii) अधार्मिकता

iv) अस्वाभाविक

v) दुकानदार

प्रo 4 निम्नलिखत पंक्तियों में प्रयुक्त अलंकार बताइए-

 $(2^{1}/2)$

- क) तीन बेर खाती थी वे तीन बेर खाती है।
- ख) मधुबन की छाती को देखो सुखी कितनी इसकी कलियाँ
- ग) मेघ आए बड़े बन-ठन के सँवर के।
- घ) पायो जी मैंने राम रतन धन पायो।
- ड़) देख लो साकेत नगरी है यही, स्वर्ग से मिलने गगन में जा रही।

प्रo 5 निम्न समस्त पदों का विग्रह करके समास का भेद बताइए — (कोई 2)

(4)

(10)

i) प्रतिवर्ष

ii) नीलकंठ

iii) पंचवटी

प्रo 6 नीचे दिए गए प्रश्नों के उत्तर दीजिए (कोई 8 करें)

क) किस घटना ने सालिम अली के जीवन की दिशा को बदल दिया और उन्हें पक्षी प्रेमी बना दिया?

- ख) 'साँवले सपनों की याद' पाठ में लेखक ने सालिम अली के व्यक्तित्व खींचा है उसे अपने शब्दों में लिखिए।
- ग) हरिशंकर परसाई ने प्रेमचंद का जो शब्दिचत्र हमारे सामने प्रस्तुत किया है उससे प्रेमचंद के व्यक्तित्व की कौन कौन सी विशेषताएँ उभरकर आती हैं?
- घ) प्रेमचंद के फ़टे जूते' पाठ में 'टीले' शब्द का प्रयोग किन सन्दर्भों को इंगित करने के लिए किया गया होगा?
- ड) लेखिका उर्दू-फ़ारसी क्यों नहीं सीख पाई?
- च) लेखिका ने अपनी माँ के व्यक्तित्व की किन विशेषताओं का उल्लेख किया है?

प्रo 7 अर्थ की दृष्टि से वाक्य का प्रकार लिखिए-

- क) रीना विद्यालय नहीं जा रही है।
- ख) यदि मेहनत करोगे तो सफलता मिलेगी।
- ग) अरे ! आज तुमने कमाल कर दिया।
- घ) सब लडके साथ खेलो।
- ड़) गाँधी जी का नाम सबने सुना है।

प्रo 8 निम्नलिखत प्रश्नों के उत्तर दीजिए -

(10)

(5)

- क) 'बच्चे काम पर जा रहे हैं' कविता में सुविधा और मनोरंजन के उपकरणों से बच्चे वंचित क्यों हैं?
- ख) बादलों के आने पर प्रकृति में जिन गतिशील क्रियाओं को कवि ने चित्रित किया है, उन्हें लिखिए।
- ग) लता ने बादल रूपी मेहमान को किस तरह देखा और क्यों?
- घ) 'ग्राम श्री' कविता में किस मौसम के सौंदर्य का वर्णन है?
- ड) गाँव को 'मरकत डिब्बे सा खुला' क्यों कहा गया है?

प्रo 9 नीचे दिए गए गद्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए।

(6)

तुम फोटो का महत्व नहीं समझते। समझते होते, तो किसी से फोटो खिंचाने माँग लेते। लोग तो माँगे के कोट से वर- दिखाई करते हैं। और माँगे की मोटर से बारात निकालते हैं। फोटो खिंचाने के लिए तो बीवी तक माँग ली जाती है, तुमसे जूते ही माँगते नहीं बने! तुम फोटो का महत्व नहीं जानते। लोग तो इत्र चुपड़कर फोटो खिंचाते हैं जिससे फोटो में खुशबू आ जाए! गंदे-से-गंदे आदमी की फोटो भी खुशबू देती है।

- क) फोटो के महत्व को कौन नहीं जानता और क्यों?
- ख) लोग फोटो खिंचाने के लिए क्या-क्या करते हैं?
- ग) "गंदे-से-गंदे आदमी की फोटो भी खुशबू देती है" में छिपा व्यंग्य स्पष्ट कीजिए।

प्रo 10 निम्नलिखत काव्यांश को पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए।

(5)

फैली खेतों में दूर तलक

मखमल की कोमल हरियाली;

लिपटी जिसमें रवि की किरणें

चाँदी की सी उजली जाली!

तिनकों के हरे- हर तन पर

हिल हरित रूधिर है रहा झलक,

श्यामल भू तल पर झुका हुआ

नभ का चिर निर्मल नील पलक।

- क) कवि ने हरियाली को मखमल समान कोमल क्यों कहा है?
- ख) हरी घास पर पड़ी ओस की बूँदों को देखकर कवि क्या कल्पना करता है?
- ग) हरियाली पर सूर्य की किरणें कैसी लग रहीं हैं?
- घ) 'चाँदी की सी उजली जाली' में कौन सा अलंकार है?
- ड़) उपर्युक्त काव्यांश में से 'सूर्य' और 'लहू' के पर्यायवाची शब्द छाँटो।

Io 11 किन्हीं २प्रश्नों के उत्तर दीरि	नए-	(5)
क) अपनी बेटी का रिश्ता त	य करने के लिए रामस्वरूप उमा से जिस प्रकार व्यवहार की अपेक्षा कर रहे हैं वह उचित	ा क्यों नहीं है?
ख) लेखिका ने अपनी नानी	को कभी देखा भी नहीं फिर भी उनके व्यक्तित्व से वे क्यों प्रभावित थी?	
ग) 'शिक्षा बच्चों का जन्मसि	द्ध अधिकार है' - इस दिशा में लेखिका के प्रयासों का उल्लेख कीजिए।	

प्रo 12 दिए गए संकेत बिंदुओं के आधार पर किसी एक विषय पर 200 से 250 शब्दों में निबंध लिखिए। (10)

- महानगरों में बढ़ता यातायात: एक समस्या
 - समस्या का कारण
 - वैभव का प्रतीक
 - दुर्घटनाएँ
 - वायु एवं ध्वनि प्रदूषण
 - कुछ सुझाव
- अच्छा स्वास्थ्य महावरदान ii.
 - प्रस्तावना
 - अस्वस्थ व्यक्ति की दशा

 - अच्छा स्वास्थ्य एक वरदान है
 पौष्टिक भोजन का स्वरुप एवं महत्व
 नियमित एवं सादा जीवन
- भारत की बहुमुखी प्रगति iii.
 - आत्मिनभिरता
 - विज्ञापन के क्षेत्र में विकास
 - ऊर्जा के क्षेत्र में विकास
 - अंतिरक्ष विज्ञान के क्षेत्र में विकास

प्रo13 निम्नलिखित में से कोई एक पत्र लिखिए-

(10)

- 💠 अपने क्षेत्र में बिजली आपूर्ति की समस्या के संदर्भ में सम्बंधित अधिकारी को शिकायती पत्र लिखिए।
- 💠 बड़े भाई को पत्र लिखिए जिसमे उसके द्वारा दी गई सीख पर आचरण करने का आश्वासन दीजिए।

P.S.M WORLD SCHOOL ANNUAL EXAMINATION (2022-23) CLASS – IX CT. INFORMATION TECHNOLOGY

SUBJECT – INFORMATION TECHNOLOGY (402)

Time: 2 Hrs.

M.M.: 50

General Instructions:

- i. Please read the instructions carefully.
- ii. This Question Paper consists of 21 questions in two sections: Section A & Section B.
- iii. Section A has Objective type questions whereas Section B contains Subjective type questions.
- iv. Out of the given (5 + 16 =) 21 questions, a candidate has to answer (5 + 10 =) 15 questions in the allotted (maximum) time of 2 hours.
- v. All questions of a particular section must be attempted in the correct order.

SECTION A - OBJECTIVE TYPE QUESTIONS (24 MARKS):

- i. This section has 05 questions.
- ii. Marks allotted are mentioned against each question/part.
- iii. There is no negative marking.
- iv. Do as per the instructions given.

SECTION B - SUBJECTIVE TYPE QUESTIONS (26 MARKS):

- i. This section has 16 questions.
- ii. A candidate has to do 10 questions.
- iii. Do as per the instructions given.
- iv. Marks allotted are mentioned against each question/part.

vi. What is/are the benefit/benefits of Self – management

Section A: OBJECTIVE TYPE QUESTIONS

Answer any 4 out of the given 6 questions on Employability Skills. $(1 \times 4 = 4 \text{ marks})$ Q. 1 i. Which of the these sentences use uppercase letters correctly? a. I am Hungry. b. Divya and sunil are reading. c. The bucket is Full of water. d. She lives in Delhi. ii. Dressing and grooming are important because they help us to look ______. a. smart b. untidy c. shabby d. all of the above iii. What is/are the reason/reasons behind Lack of self – confidence? b. Fear of failure a. Lack of initiative c. Both a & b d. Positive affirmation iv. Which of the following is not a reward of entrepreneurship? a. Flexible schedule b. Recognition and fame c. Stav creative d. All of these v. Which type of business buys products at wholesale price and sells them in retail? a. Service b. Manufacturing c. Merchandise d. Hybrid

	a. Self- discipline	b. Smart working	
	c. Clarity of thoughts	d. All of these	
Q2.	Answer any 5 out of the given 6 questions.		$(1 \times 5 = 5 \text{ marks})$
i. ITe	S is defined as outsourcing processes that can be	enabled by	_·
	a. Information technology	b. Human resource	
	c. Networking	d. Communication technol	ogy
ii. Ide	entify the home row keys		
	a. QWER;TYK	b. AS ER;UILO	
	c. ASDF JKL;	d. AXCFJNM;	
iii. Co	ompanies having head quarters in one country and	l offices in multiple locations ac	ross the globe are
	a. MNCs	b. ISP	
	c. GIC	d. All of these	
iv. In	a spreadsheets, calculations are done on	·	
	a. Data	b. Labels	
	c. Functions	d. Formula	
	user has stored the formula =B5 + B6 in the cellula will look like	ll A1 and copied the formula is	n cell A2. The changed
	a. = B6 + B7	b. = C5 + C6	
	c. = C6 + C7	d. = B5 + B6	
	hen values are changed in the cells, the result of vantage related to which of the following?	calculations update according t	o the changes. – This is
	a. Functions	b. Formula	
	c. Both a) and b)	d. Charts	
Q. 3	Answer any 5 out of the given 6 questions.		$(1 \times 5 = 5 \text{ marks})$
i. The	keys which have letters/alphabets printed on ther	m are called the ke	ys.
	a. Alphabet	b. Number	
	c. Enter	d. Caps Lock	
ii. ! pı	unctuation mark is typed with the help of	key.	
	a. Ctrl	b. Shift	
	c. Arrow	d. Alt	
iii. Vi	rtual keyboard can be displayed by pressing	key.	
	a. F5	b. F8	
	c. F9	d. Ctrl+K	
iv. Kr	nees and elbows should make which angle while s	sitting and typing?	

	a. 90 degrees	b. 180 degrees
	c. 45 degrees	d. 20 degrees
	•	muscle memory or memory of touch to locate the keys on
the ke	eyboard while typing.	
	a. Dragging	b. Touch typing
	c. Dropping	d. Clicking
vi. He	born in 2001 in Odisha?	
	a. has	b.is
	c. was	d. did
Q. 4	Answer any 5 out of the given 6 questions.	$(1 \times 5 = 5 \text{ marks})$
i	feature generates copies of letter fo	or multiple recipients.
	a. Thesaurus	b. Template
	c. Auto-complete	d. Mail merge
ii. Ro	han wants to convert upper case letter to lower	and lower to upper in a title. What should he do?
	a. Apply Toggle Case	b. Retype the title
	c. Apply Capitalize Every Word case	d. Apply Title text case
iii	contains the merge field names in t	the top row.
	a. Main document	b. Data source
	c. Merged document	d. None of these
	eshmi is a teacher and she is writing steps to shulf for kids?	ut down a computer for small kids. Which list type is best
	a. Bullet	b. Numbered
	c. Paragraph	d. Table
	nu is making her computer project. She needs to mentation. Which of the following features show	
	a. Basic shapes	b. Polygons
	c. Flowchart shapes	d. Symbol shapes
vi. W	hich of the following actions changes the dimer	nsions of an image inserted in a document?
	a. Crop	b. Rotate
	c. Skew	d. Symbol shapes
Q. 5	Answer any 5 out of the given 6 questions.	$(1 \times 5 = 5 \text{ marks})$
i. To v	write mathematical equations, which of the following	owing text style is helpful?
	a. Superscript	b. Overline
	c. Strikethrough	d. Italic

11. Just like Writer and Calc, LibreOffice Impress is a/an _	application?				
a. Powerful	b. Open source				
c. Presentation	d. Commercial				
iii. The effect with which a slide switches to the next durir	ng a presentation is called				
a. Animation	b. Motion path				
c. Transition	d. Advance slide				
iv.=A5 + \$B5 * \$D\$5 – this formula is an example of	?				
a. Relative reference	b. Absolute reference				
c. Mixed reference	d. All of these				
v. The electronic page in a presentation is called a					
a. page	b. e-page				
c. slide	d. e-slide				
vi option determines the speed of an a		tion.			
a. Delay	b. Duration				
c. Start	d. Motion path				
SECTION B: SUBJECTIVE	E TYPE QUESTIONS				
Answer any 3 out of the given 5 questions on Employal	oility Skills.	$(2 \times 3 = 6 \text{ marks})$			
Answer each question in $20 - 30$ words.					
Q. 6 What do you mean by interjection and conjunction? I	Explain with 2 examples each	1.			
Q. 7 How is RAM different from ROM?					
Q. 8 List 2 advantages of written communication.					
Q. 9 What do you mean by peripheral devices?					
Q. 10 What do you mean by green economy?					
Answer any 4 out of the given 6 questions in $20 - 30$ we	ords each.	$(2 \times 4 = 8 \text{ marks})$			
Q. 11 How is BPO different from BPM?					
Q. 12 What are word processors? Give some examples.					
Q. 13 What do you mean by a call centre?					
Q. 14 Give any 2 purpose of using charts and graphs.					
Q. 15 What are the basic components of a slide?					
Q. 16 Why is formatting necessary?					
Answer any 3 out of the given 5 questions in $50-80$ words each. $(4 \times 3 = 12)$					
Q. 17 What is the use of different workspace views of Imp	Q. 17 What is the use of different workspace views of Impress? Explain about any four views.				
Q.18 how many stages are involved in touch typing technic	que? Describe each state.				
Q. 19 What is a spreadsheet? Briefly discuss any 4 major	features of a spreadsheet prog	gram.			

Q. 20 What do you mean by rotating, cropping and resizing an image?

Q. 21 What is the significance of a chart? Briefly describe the use of any 3 distinct types of charts.

P.S.M WORLD SCHOOL **ANNUAL EXAMINATION (2022-23)** CLASS - IX **SUBJECT - MATHEMATICS**

Time: 3 Hrs. M.M.: 80

General Instructions:

- 1. This Question Paper has 5 Sections A-E.
- 2. Section A has 20 MCQs carrying 1 mark each
- 3. Section B has 5 questions carrying 02 marks each.
- 4. Section C has 6 questions carrying 03 marks each.
- 5. Section D has 4 questions carrying 05 marks each.
- 6. Section E has 3 case based integrated units of assessment (04 marks each) with sub-parts of the values of 1, 1 and 2 marks each respectively.
- 7. All Questions are compulsory. However, an internal choice in 2 Qs of 5 marks, 2 Qs of 3 marks and 2 Questions of 2 marks has been provided. An internal choice has been provided in the 2marks questions of Section E
- 8. Draw neat figures wherever required. Take 22/7 wherever required if not stated.

	Section – A
Q1. Every rational number is	
a) A natural number	b) An integer
c) A real number	d) A whole number
Q2. Zero of the zero polynomial is0	
a) 0	b) 1
c) Any real number	d) Not defined
Q3. The linear equation $2x - 5y = 7$ has	
a) A unique solution	b) Two Solutions
c) Infinitely many solutions	d) No solution
Q4. The point at which two coordinate axes meet	is called the

- - a) Abscissa

b) Ordinate

c) Origin

- d) Quadrant
- Q5. The angles of a triangle are in the ratio 5:3:7. The triangle is
 - a) An acute angled triangle

b) An obtuse angled triangle

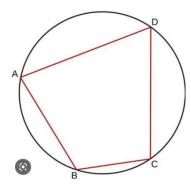
c) A right triangle

- d) An isosceles triangle
- Q6. The diagonals AC and BD of a parallelogram ABCD intersect each other at point O. If <DAC = 32° and <AOB = 70°, then <DBC is equal to

a) 24°

b) 86°

- $d) 32^{0}$
- Q7. In the given figure, ABCD is a cyclic quadrilateral in which <A = $(2x + 40^{\circ})$ and <C = $(3x + 20^{\circ})$, then the value equation



a) 20° c) 24° b) 40°

d) 48°

~ ~		•	• •				_	
O8.	The area	of e	eauīlatera	l triang	tle with	side 2	3 cm	1S

a) 5.196 cm²

b) 0.866 cm²

c) 3.496 cm²

d) 1.732 cm²

Q9. Find the class mark of the class 130-150.

a) 120

b) 130

c) 150

d) 140

Q10. The value of 1.999...... in the form of p/q where p and q are integers is

a) 19/10

b) 1999/1000

c) 2

d) 1/9

Q11. If x1+51 is divided by x+1, the remainder is

a) 0

b) 1

c) 49

d) 50

Q12. The graph of the linear equation 2x+3y=6 is a line which meets the x-axis at the point.

a) (0,2)

b)(2,0)

c)(3,0)

d)(0,3)

Q13. The perpendicular Distance of the point P(3,4), four from the Y axis is

a) 3

b) 4

c) 5

d) 7

Q14. In the given figure, <AOB Is a straight line. If <AOC= $4x^0$ and <BOC= $5X^0$ then find <AOC.

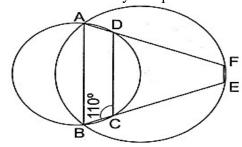
a) 40°

b) 60°

c) 80°

d) 100°

Q15. In the given figure ABCD and ABEF are cyclic quadrilaterals. If BCD = 110° then BEF = ?



a) 90°

b) 70°

c) 55°

d) 110°

Q16. Point (- 10,0) lies

- a) on the negative direction of the y-axis
- b) on the negative direction of the X-axis

c) in the third quadrant

d) in the fourth quadrant

Q17. Every linear equation in two variables has

a) two solutions

b) no solution

c) an infinite number of solutions

d) one solution

Q18. (x + 1) is a factor of the polynomial

$$x^3 + x^2 - x + 1$$

b)
$$x^3 + x^2 + x + 1$$

$$x^4 + 3x^3 + 3x^2 + x + 1$$
 d) $x^4 + x^3 + x^2 + 1$

Q19. Assertion (A): If the diagonals of a parallelogram ABCD are equal, then $ABC = 90^{\circ}$

Reason (R): If the diagonals of a parallelogram are equal, it becomes a rectangle.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

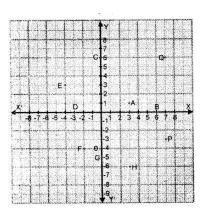
Q20. Assertion (A): The rationalised form of is +2.

Reason (R): The conjugate of -2 is +2.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

Section - B

- Q21. Solve the equation a 15 = 25 and state which axiom do you use here.
- Q22. It is known that x + y = 10 and that x = z. Show that z + y = 10?
- Q23. Write the co-ordinates of each of the following points marked in the bar graph.



Q24. Simplify: $2^{2/3}$. $2^{1/5}$

OR

If,

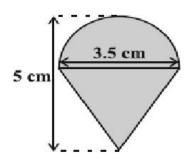
$$a=rac{3+\sqrt{5}}{2}$$
 ,

$$a^2 + \frac{1}{a^2}.$$

then find the value of.

Q25. Harish was a student of 9th class. Once his birthday party was arranged in a restaurant. He got a playing top (lattu) as his birthday present, which surprisingly had no color on

it. He wanted to color it with his crayons. The top is shaped like a cone surmounted by a hemisphere as shown in the figure. The entire top of each lattu is 5 cm in height and the diameter of the top is 3.5 cm. Rashid wants to color the hemispherical part by red color and the conical part by green color.



Answer the following questions:

- i. What is the area to be colored by red color?
- ii. Also, find the area to be colored by green color.

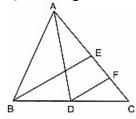
Find the ratio of the curved surface areas of two cones if their diameters of the bases are equal and slant heights are in the ratio 4:3.

Q26. If
$$a = xy^{p-1}$$
, $b = xy^{q-1}$ and $c = xy^{r-1}$, prove that $a^{q-r} b^{r-p} c^{p-q} = 1$

Q27. Construct a histogram for the following data:

Monthly School fee (in ₹):	30- 60	60- 90	90- 120	120- 150	150- 180		210- 240
No of Schools	5	12	14	18	10	9	4

Q28. In Figure AD and BE are medians of ABC and BE || DF. Prove that CF = AC.



Q29. Find at least 3 solutions for the following linear equation in two variables:

$$2x + 5y = 13$$

Q30. Draw a histogram of the following distribution:

Height (in cm)	Number of students
150 - 153	7
153 - 156	8
156 - 159	14
159 - 162	10
162 - 165	6
165 - 168	5

OR

The production of oil (in lakh tonnes) in some of the refineries in India during 1982 was given below:

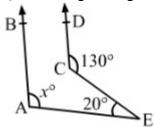
Refinery:	Barauni	Koyali	Mathura	Mumbai	Florida
Production of oil (in lakh tonnes)	30	70	40	45	25

Construct a bar graph to represent the above data so that the bars are drawn horizontally. Q31.

Factorize:

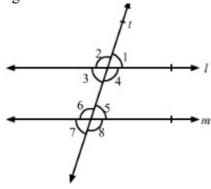
$$2\sqrt{2}x^3 + 3\sqrt{3}y^3 + \sqrt{5}(5 - 3\sqrt{6}xy)$$

Q32. In the given figure, AB CD. Find the value of x



OR

In the given figure, $l \parallel m$ and a transversal t cuts them. If , find the measure of each of the marked angles.



Q33. A right angled triangle with sides 3 cm and 4 cm is revolved around its hypotenuse. Find the volume of the double cone thus generated.

Q34. Find the area of the triangle whose sides are 42 cm, 34 cm and 20 cm in length. Hence, find the height corresponding to the longest side.

OR

The perimeter of a triangle is 50 cm. One side of a triangle is 4 cm longer than the smaller side and the third side is 6 cm less than twice the smaller side. Find the area of the triangle.

Q35. Let R_1 and R_2 are the remainders when the polynomials $x^3 + 2x^2 - 5ax - 7$ and $x^3 + ax^2 - 12x + 6$ are divided by x + 1 and x - 2 respectively. If $2R_1 + R_2 = 6$, find the value of a.

Section – E

Q36. Read the text carefully and answer the questions:

Peter, Kevin James, Reeta and Veena were students of Class 9th B at Govt Sr Sec School, Sector 5, Gurgaon. Once the teacher told **Peter to think a number x and to Kevin to think another number y** so that the difference of the numbers is 10 (x > y).

Now the teacher asked James to add double of Peter's number and that three times of Kevin's number, the total was found 120.

Reeta just entered in the class, she did not know any number.

The teacher said Reeta to form the 1st equation with two variables x and y.

Now Veena just entered the class so the teacher told her to form 2nd equation with two variables x and y.

Now teacher Told Reeta to find the values of x and y. Peter and kelvin were told to verify the numbers x and y.



- i. What are the equation formed by Reeta and Veena?
- ii. What was the equation formed by Veena?

iii. Which number did Peter think?

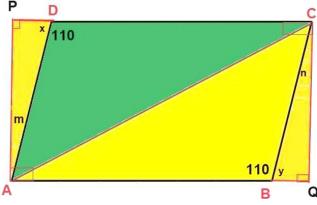
OR

Which number did Kelvin think?

Q37. Read the text carefully and answer the questions:

In the middle of the city, there was a park ABCD in the form of a parallelogram form so that AB = CD, $AB \parallel CD$ and AD = BC, $AD \parallel BC$.

Municipality converted this park into a rectangular form by adding land in the form of APD and BCQ. Both the triangular shape of land were covered by planting flower plants.



- i. Show that APD and BQC are congruent.
- ii. PD is equal to which side?

OR

- i. What is the value of m?
- ii. Show that ABC and CDA are congruent.

Q38. Mathematics teacher of a school took his 10th standard students to show Taj Mahal. It was a part of their Educational trip. The teacher had interest in history as well. He narrated the facts of Taj Mahal to the students. Then the teacher said in this monument one can find combination of solid figures. There are 4 pillars which are cylindrical in shape. Also, 2 domes at the back side which are hemispherical. 1 big domes at the centre. It is the finest example of the symmetry. (Use $\pi = 22/7$)

(i) How much cloth material will be required to cover 2 small domes each of radius 4.2 metres?



- (ii) Write the formula to find the volume of one pillar (including hemispherical dome):
- (iii) The volume of the hemispherical dome at the centre if base radius is 7 m is
- (iv) What is the lateral surface area of all 4 pillars if height of the each pillar is 14 m and base radius is 1.4 m (without dome)?

P.S.M WORLD SCHOOL ANNUAL EXAMINATION (2022-23) CLASS – IX SUBJECT – SOCIAL SCIENCE

Time: 3 Hrs. M.M.: 80

Very Short answer question

(1x7=7)

- 1. Why was Bastil most hated Prison in France?
- 2. When was Indian Forest Service started?
- 3. Name The parallel of latitude which divides India into almost equal parts?
- 4. Where does the heaviest rainfall of the world occur?
- 5. Which age group is generally considered in adolescent group?
- 6. Define the term constituency?
- 7. Writes the names of two poorest state in India.

Short answer questions

 $(11 \times 3=33)$

- 8. Evaluate the functions of national
- 9. An Aadivasi child will be able to name hundreds of species of tree and plants how many species of trees can you name. (name any six)

OR

Why did British introduce waste land rules? How did this affect the life of pastoralists?

- 10. What are the factor affecting the climate of India?
- 11. What are the causes of sudden growth of population in India since 1951? Write any three reasons.
- 12. Why the peninsular rivers of India are seasonal in nature give three reasons.
- 13. Why we need constitution in democracy?
- 14. Mention essential qualification for the post of President of India.
- 15. "Rights play an important role in any democracy" explain the given statement with the help of any three points.
- 16. What is the difference between multiple cropping and modern farming method?
- 17. Explain how poverty line is estimated in India.

Long answer questions

(5x8=40)

- 18. Why did British government want to change grazing land in to farming land give five reason.
- 19. What were the features of Nazism?
- 20. What is sex ratio? right main causes of adverse sex ratio in India.
- 21. What are the challenges to free and fair election describe any five challenges?
- 22. How can you say that the president occupies the position of a nominal head of the state? Give reason in support of your answer.

OR

What effects did nazism have on the school system. Give five points.

- 23. What are different dimension of food security? Mention any two scheme launched by the government to provide food security to the poor.
- 24. How has increasing population prove to be one of the man reason of poverty explain in detail.
- 25. Identify this features with the help of following information and write their correct names on the lines marked in the map.
 - a) The state having longest International boundaries
- d) Jim Corbett National park

b) The smallest state in respect of area

e) Bharat pur bird sanctuary

c) Kajiranga national park

P.S.M WORLD SCHOOL ANNUAL EXAMINATION (2022-23) CLASS – IX SUBJECT – SCIENCE

Time: 3 Hrs. M.M.: 80

Section A

1. Match the following with the correct response:-

(1) Sublimation	(A) Heat required to change the state of 1Kg of solid into liquid
(2) Evaporation	(B) Change of liquid state into vapours without coming to its boiling point
(3) Latent heat of vaporisation	(C) Change of solid directly into vapours
(4) Latent heat of fusion	(D) Heat required to change the state of 1Kg liquid into vapours

a) 1-C, 2-B, 3-D, 4-A

b) 1-A, 2-C, 3-B, 4-D

c) 1-B, 2-D, 3-A, 4-C

- d) 1-D, 2-A, 3-C, 4-B
- 2. The primary function of smooth endoplasmic reticulum in liver cells is:
 - a) detoxification

b) protein synthesis

c) carbohydrate metabolism

- d) catabolism of proteins
- 3. Match the following with the correct response:

(a) Velocity	(i) m/s ²
(b) Displacement	(ii) m/s
(c) Acceleration	(iii) s
(d) Time	(iv) m

$$(d) - (iv), (b) - (i), (c) - (iii), (d) - (ii)$$

- 4. Preventive and control measures adopted for the storage of grains include
 - a) strict cleaning

b) fumigation

c) all of these

- d) proper drying
- 5. Latex of which of the following plants yield chewing gum?
 - a) Achrassapota

b) Bougainvillea

c) Cucurbita

- d) Castor
- 6. Cell arises from the pre-existing cell was stated by
 - a) Virchow

b) Purkinje

c) Robert Hook

- d) Robert Brown
- 7. Match the following with the correct response:

(1) 1 mole of	(A) molecules
(2) 1 mole of N	(B) 12 g

(3) 1 mole of C	(C) atoms		
(4) 1 mole of	(D) 18 g		
a) 1-C, 2-B, 3-D, 4-A		b) 1-D, 2-A, 3-C, 4-B	
c) 1-A, 2-C, 3-B, 4-D		d) 1-B, 2-D, 3-A, 4-C	
Haversian canals are present a) Ligament	t in	b) Bone	
c) Cartilage		d) Tendon	
 A heavier and a lighter body a) heavier will have more 	•	entum, then b) lighter will have more K.E.	
c) they will have equal K.E.		d) K.E. will be independent of momentum	
10. Match the following with th	e correct response:	:	
(a) I equation of motion	(i) $v = u + at$		
(b) II equation of motion	(ii) $v^2 = u^2 +$		
(c) III equation of motion	(iii) S = ut +		
$\tilde{N}(d)$ Retardation			
a) (a) - (i), (b) - (iii),(c) -	(iv) (ii), (d) - (iv)	b) (a) - (iii), (b) - (ii),(c) - (iv), (d) - (i)	
c) (a) - (iv), (b) - (i),(c) - ((iii), (d) - (ii)	d) (a) - (ii), (b) - (iv),(c) - (i), (d) - (iii)	
11. Calculate the number of mo	les in 17 g of hydro	ogen peroxide (H ₂ O ₂). b) 1 mole	
c) mole		d) 3 mole	
12. Match the following with the co	orrect response		
	nent tissue		
111	walled packing cel	 c	
(c) Chlorenchyma (iii) Buoy			
	•		
(d) Cork (iv) Photo	·		
a) (a) - (i), (b) - (iii), (c) - (ii), (d) - (1V)	b) (a) - (iii), (b) - (ii), (c) - (iv), (d) - (i)	
c) (a) - (ii), (b) - (iv), (c) - (i), (d) - (iii)	d) (a) - (iv), (b) - (i), (c) - (iii), (d) - (ii)	
13. Organelle without a cell memb	rane is		
a) Ribosome		b) Golgi apparatus	
c) Chloroplast		d) Nucleus	
14. Nitrogen is:			
a) Diatomic		b) Monatomic	
c) Triatomic		d) Tetratomic	
15. Which of the following settles (a) Copper sulphate solution	down when allowe	ed to stand undisturbed doe sometimes? b) Blood	

d) Solution of egg albumin in water

c) Muddy water

- 16. 'Operation Flood' in India refers to:
 - a) Controlling floods during the rainy season.
 - b) Increase in milk production by the development of co-operative dairy on a large scale.
 - c) Increase in fish production during floods.
 - d) The large increase in egg production.
- 17. **Assertion (A):** A tiger can accelerate from rest at the rate of 4 m/s². **Reason (R):** The velocity attained by it in 10s is 40 m/s.
 - a) Both A and R are true and R is the correct explanation of A.
 - b) Both A and R are true but R is not the correct explanation of A.
 - c) A is true but R is false.
 - d) A is false but R is true.
- 18. **Assertion (A):** During evaporation of liquids, the temperature remains unaffected. **Reason (R):** Kinetic energy of the molecules is inversely proportional to absolute temperature

Both A and R are true and R is the correct explanation of A.

- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.
- 19. **Assertion (A):** 1-day Vinita went to see his brother's competition and he saw his brother in pain and not able to run comfortably.

Reason (R): Two bones can be connected to each other by another type of connective tissue called the ligament. This tissue is very elastic. It has considerable strength.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.
- 20. Assertion (A): Isotopes are electrically neutral.

Reason (R): Isotopes are species with same mass number but different atomic numbers.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.

d) A is false but R is true.

Section B

21. A certain household has consumed 250 units of energy during a month. How much energy is this in joules?

OR

A horse pulls a cart with a force of 300 N, such that the system of horse and cart moves with uniform speed of 18 kmh^{-1} on a level road. Calculate the power developed by the horse in watt and also find its equivalent horse power. (Take 1 hp = 746 W)

- 22. What are the factors which are responsible for bringing a change in the physical state of a substance?
- 23. Two children are at opposite ends of an aluminium rod. One strikes the end of the rod with a stone. Find the ratio of times taken by the sound wave in air and in aluminium to reach the second child. Given velocity of sound in air and aluminium are 346 ms⁻¹ and 6420 ms⁻¹ respectively.
- 24. Why are we able to sip hot tea or milk faster from a saucer rather than a cup?
- 25. Explain why the sole of a shoe is worn out.

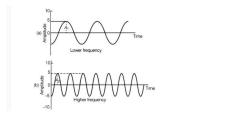
OR

Explain, why is it difficult for a fireman to hold a hose, which ejects large amounts of water at a high velocity.

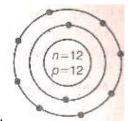
26. If bromine atom is available in the form of, say, two isotopes and. Calculate the average atomic mass of bromine atom.

Section C

27. Observe the following graphical diagram and answer the following questions:



- 1. What is represented by the graphical diagram shown above?
- 2. Which wave characteristic determine the pitch of sound?
- 3. What is the relationship between pitch and frequency?

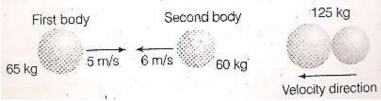


- iii. How do we get the number of protons as 12?
- 29. A body is dropped from a height of 320 m. The acceleration due to the gravity is 10 m/s².
 - (a) How long does it take to reach the ground?
 - (b) What is the velocity with which it will strike the ground?

OR

Two cars A and B are moving along a straight line. Car A is moving at a speed of 80 Km/h while car B is moving at a speed 50 Km/h in the same direction. Find the magnitude and direction of:

- (a) the relative velocity of car A with respect to B
- (b) The relative velocity of car B with respect to A.
- 30. Due to heavy rains and speedy winds a tree broke and fell on the road. Two persons from local shops came and begin to remove that broken part of the tree, but in vain as the log was too heavy. A passerby came to their help with a few solid heavy sticks. Consequently, the heavy log was put aside and the commutation on the road began as usual.
 - (a) Comment upon the value(s) displayed by the passerby?
 - (b) Name the energy stored when the heavy log of the tree was lifted to some height?
- 31. Two bodies as shown in the figure collide with each other and join thereafter, with what velocity will they move after combining together?

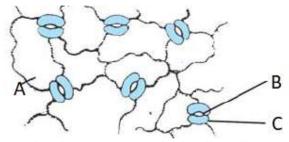


32. What is the difference between plasma membrane and cell wall? Give the functions of each one.

OR

Differentiate between active and passive transport.

33. Observe the given below diagram and answer the following questions:



- 1. What does A represent in the given diagram? How does cell 'A' of root hairs cells help in water absorption?
- 2. How does B in the given diagram help the plants?
- 3. Out of A, B, and C cells in the above diagram, which cell helps in the closing and opening of the stomata? Write the name of the cell.

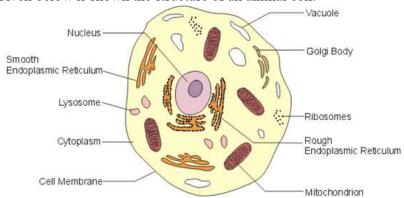
i. At some moment, two giant planets Jupiter and Saturn of the solar system are in the same line as seen from the earth. Find the total gravitational force due to them on a person of mass 50 kg on the earth. Could the force due to the planets be important?

Mass of the Jupiter = $2 ext{ } 10^{27} ext{ kg}$ Mass of the Saturn = $6 ext{ } 10^{26} ext{ kg}$ The distance of Jupiter from the earth = $6.3 ext{ } 10^{11} ext{ m}$ The distance of Saturn from the earth = $1.28 ext{ } 10^{12} ext{ m}$

ii. A bag of sugar weighs 'w' at a certain place on the equator. If this bag is taken to Antarctica, then will it weigh the same or more or less. Give a reason for your answer.

OR

- i. A cube of side 5 cm is immersed in water and then in saturated salt solution. In which case, will it experience a greater buoyant force? If each side of the cube is reduced to 4 cm and then immersed in water, what will be the effect on the buoyant force experienced by the cube as compared to the first case for water. Give the reason for each case.
- ii. A ball weight 4 kg of density 4000 kg m⁻³ is completely immersed in water of density 10^3 kg m⁻³. Find the force of buoyancy on it. (Given $g = 10 \text{ ms}^{-2}$.)
 - 35. Given below is shown the structure of an animal cell.

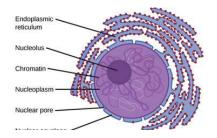


Using the above diagram, answer the following questions:

- 1. In which cell organelle cellular respiration takes place?
- 2. Why the nucleus is called the brain of the cell?
- 3. Why lysosomes are called suicide bags?
- 4. Which is the fluid content that contains specialised cell organelles inside the plasma membrane?
- 5. What is the composition of the cell membrane?

OR

The labelled diagram of the nucleus is shown below:

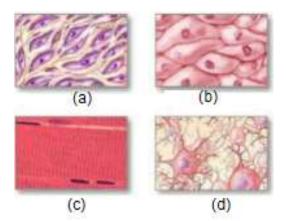


- 1. Which nuclear structures are embedded in the nucleoplasm?
- 2. What is the function of the nucleolus in the nucleus?
- 3. What is the composition of chromosomes in the nucleus?
- 4. When are the chromosomes seen in the nucleus?
- 5. Which structure transmits the heredity information from parents to offsprings?
- 36. 1. Distinguish among the true solution, suspension and colloid in a tabular form under the following heads:
 - 1. Stability
 - 2. Filterability
 - 3. Type of mixture
 - 2. Give the expression for the concentration of a solution. How will you prepare a 10% solution of glucose by mass in the water?

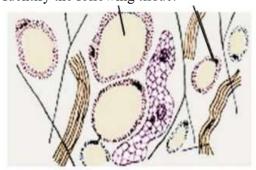
Section E

37. Read the text carefully and answer the questions:

Animal tissues are of many types such as epithelial tissue, connective tissue, muscular tissue and nervous tissue. Blood is a type of connective tissue, and muscle forms muscular tissue. The nature of the matrix differs in concordance with the function of the particular connective tissue. Blood has a fluid (liquid) matrix called plasma, in which red blood corpuscles, white blood corpuscles and platelets are suspended. Blood flows and transports gases, digested food, hormones and waste materials to different parts of the body. Bone is another example of connective tissue. It forms the framework that supports the body. It also anchors the muscles and supports the main organs of the body. Another type of connective tissue, cartilage, has widely spaced cells.



1. Identify the following tissue.



2. Are the cells of connective tissues loosely spaced?

^-

What are the components of the matrix of bone?

38. Read the text carefully and answer the questions:

Poultry is the rearing of domesticated fowl (chicken), ducks, geese, turkey and some varieties of pigeon for their meat and eggs. Poultry birds are of two types that is broilers and layers. One is specialized meat-producing poultry birds while other is egg-laying poultry birds. The tremendous rise in the availability of poultry products is called Silver Revolution.



- i. What is the meaning of layers regarding poultry?
- ii. There are different breeds of hens, so give some information about broiler.
- iii. We know that different types of revolution regarding animal husbandry. So, what is the silver revolution explain?

OR

There are different breeds of poultry birds, mention two examples of indigenous and exotic breeds of poultry birds.

39. Read the following and answer any four questions from (i) to (iv).

A mole of an atom is a collection of atoms whose total mass is the number of grams equal to the atomic mass. Since equal number of moles of different elements contain an equal number of atoms it becomes convenient to express the amounts of the elements in terms of moles. A mole represents a definite number of particles viz, atoms, molecules, ions or electrons. This definite number is called Avogadro number or Avogadro constant which is equal to 6.022×10^{23} . Hence a mole represents 6.022×10^{23} particles of the substance. One mole of substance represents one gram-formula of the substance. One mole of a gas at standard temperature and pressure occupies 22.4 litres.

- i. How many grams of sodium must be taken to get 1 mole of the element?
- ii. What is the mass in grams of a single atom of chlorine? (Atomic mass of chlorine = 35.5)
- iii. How many number of moles are there in 5.75 g of sodium? (Atomic mass of sodium =
- iv. What is the mass in grams of 2.42 mol of zinc? (Atomic mass of Zn = 65.41)