

# PRATAP PUBLIC SCHOOL, SEC-6, KARNAL

## HOLIDAY HOMEWORK

## CLASS IX

#### <u>ENGLISH</u>

#### I Read the passage given below.

1 Mountains have always been held in great awe by mankind. They have been a challenge to humans. Those brave among us have always wanted to conquer them. You see, the more incredible the mountains, the greater the thrill – a challenge to the bravery of the human race. Climbing mountains is an experience that is hard to put into words. You are in a beautiful environment and, when you reach the top, you feel incredible. But you also have to climb down, which is when most accidents happen – people are tired, it gets dark, it's harder. So, mountain climbing is undoubtedly one of the most popular adventure sports along with being challenging and risky for the climber.

2 Without any perceived risk, there can't be a feeling that any significant challenge has been surmounted. Fair, but we have to bear in mind that mountaineering is not a sport that can be embraced without preparation. The enthusiasts must develop in themselves the spirit of adventure, willingness to undertake hardships and risks, extraordinary powers of perseverance, endurance, and keenness of purpose before climbing a mountain. They should also know how to handle the mountaineering equipment. Then comes the penance of the rigorous training. This could very well be the lifeline up there. It helps inculcate and hone survival instincts that allow the climber to negotiate perilous situations. There are numerous institutes in India and abroad that offer such training.

3 Mountain climbers are unanimous in agreeing that the unpredictable weather is what they fear the most. There may be sunshine one moment and a snowstorm the other. At higher altitudes, snow is a regular feature and being decisive about setting up camps or proceeding further is crucial. The icy sheets after ice storms make walking treacherous, while the powdery snow makes a mountaineer sink deep into the snow. Up there, where the intention is to embrace Nature's wonder, one realises that it cannot be done without facing its formidable glory. A true mountaineer may challenge the mountain, yet is always respectful to the powerful forces of nature.

4 Summiting mountains carries its own health risks such as oxygen and altitude sickness problems, frost bites, swelling of hands and feet, fluid collection in brain or lungs and exhaustion. Yet, the gratification mountaineers feel from mastering something that is so frightening, urges them to undertake these endeavours. We may think that the mountaineers are fearless, experts say, "Not at all. It's fear that keeps them so intrigued with such arduous journeys." Impulse and brazenness can be deadly foes. In the words of the Indian mountaineer, Bachendri Pal, "The biggest risk ... is to not to take the risk at all. Remember that."

### Based on your understanding of the passage, answer the questions given below. 1 Why does the writer say that mountains inspire 'awe' in humans? (Paragraph 1)

A. They present us with	th opportunities for exciting sp	ports.	
B. They evoke the wis	h in us, to master them.		
C. They inspire in us,	deeds of valour.		
D. They represent peac	ce and calm, to us.		
2. Select the option th	nat corresponds to the follow	ving relation below:	
The more incredible th	e mountains—the greater the	thrill (Paragraph 1)	
A. The higher the stam	nina—the lower the food intak	xe	
B. The more you laugh	n—the lesser your illness		
C. The smaller the car	the bigger the advantage		
D. The heavier the lug	gage—the higher the penalty		
3. Select the option th	nat displays what the writer	projects, with reference to	the following:
So, mountain climbin	ig is undoubtedly one of the	most popular adventure sp	orts
(Para 1)			
A. doubt		B. caution	
C. conviction		D. denial	
4 The writer compare	s training to penance in the	lineThen comes the penal	nce of the rigorous training.
(Para 2)			
State 1 point of similar	rity between training and pena	ance.	
5. Based on your rea	ading of the text, list 2 reaso	ons why the writer says tha	t "mountaineering is not a
sport that can be eml	oraced without preparation'	'. (Para 2)	
1)	2)		
<ul><li>6. What connect does</li><li>7. The writer says, "A respectful to the pow</li></ul>	the writer draw out between u A true mountaineer may cha erful forces of nature." (Par	npredictable weather and set llenge the mountain, yet is agraph 3)	ting up of camps? (Para 3) always
Select the reason the	mountaineer is respectful to	the forces of nature, up in	the mountains.
A. survival	B. experience	C. tradition	D. directive
8. Supply 1 point to i	ustify the following:		
While mountain climb	ing. an impulsive mountainee	r is either disaster-prone or a	s good as dead.
9. Evaluate the INA	PPROPRIATE reason for t	he feeling of exhilaration o	n reaching a summit. that
the mountain-climbe	rs experience.		
A. Achievement of a s	eemingly impossible feat		
B. Spectacular panora	mic view		
C. Application of the i	nculcated survival instincts		
D. Opportunity to use	sophisticated mountaineering	equipment	
11 5		1 1	
Answer the following	, by selecting the most appro	opriate option	
10. You will	work very hard to get the	e correct tune of this song.	
a. has to	b. have to	c. could	d. must
11. I reach	the station in time else I wi	ll miss the train.	1 '11
a. must 12 I am taking	D. SNOULD	c. ought to	a. Will proficiency cortificate by
November.	music ressons now. mup	(iuny, iiny	producincy conductory

a. will take	b. would pass	C

13 .The student said to the teacher ,"Sir, mark me present."

(a) The student asked the teacher to respectfully mark him present.

(b) The student respectfully said to the teacher to mark me present.

(c) The student respectfully requested the teacher to mark his presence.

(d) The student respectfully requested the teacher to mark his present.

#### 14. Mahesh said to Ram ,"I have lost your purse on account of my carelessness."

(a) Mahesh told Ram that I have lost his purse on account of my carelessness.

(b) Mahesh told Ram that he has lost his purse on account of my carelessness.

(c) Mahesh told Ram that he lost his purse on account of my carelessness.

(d) Mahesh told Ram that he had lost his purse on account of my carelessness.

15. Each day and each hour \_\_\_\_\_ precious.

(a) is (b) are (c) has (d) have

#### 16.Complete the given narrative, by filling in the blank with the correct option:

As I was standing on the dock, looking out at the lake for the last time, a feeling of emptiness over me like darkness.

Option no.	error	correction
А.	child	children
B.	last	previous
C.	the	a
D.	at	in

# 17.Fill in the blank by using the correct form of the word in the bracket, for the given portion of a letter:

Subject: Request for Approval

Dear Sir

This is to respectfully submit that I (seek) approval for organising a tree plantation drive to be undertaken by the club.

#### **III.** Answer the following as per the instructions:

# 18. 'MARGIE even wrote about it that night in her diary.' This sentence suggests that finding the book was \_\_\_\_\_\_

A. An unusual event B. An important milestone in her life D. A discovery of historic importance C. A remarkable achievement 19. Tommy's attitude towards Margie is mainly A. Indifferent B. Patronising C. Thoughtless D. Domineering 20. A slight girl, looking younger than her seventeen years, was nervous yet excited as she felt the vibrations of the approaching train. Why was Evelyn nervous and excited? 21. How does Margie's attitude towards old style schools change? A. Excitement to disappointment B Prejudice to acceptance C. Curiosity to confusion D. Surprise to yearning 22. Margie's thoughts about old style schools suggests that she is \_\_\_\_\_ A. Introvert . B. Frivolous C. Lonely D. Lazy

#### 23.When did Evelyn start performing alone?

- A. When she was in school
- B. When she was at the Royal Academy of Music
- C. When she toured the United Kingdom as a teenager
- D. When she graduated from the Royal Academy of Music

#### Read the extract and answer the questions

Few had thought that it would one day be revived. A barber of a family of professional musicians, who had access to the royal palace, decided to improve the tonal quality of the pungi.

- (24) What does 'it' refer to?
- (25) Why did 'it' need to be revived?
- (26) Why did the barber probably have interest in 'it'?
- (27) Did he succeed in improving 'it'? If yes, how?
- (28) Which of the quotes best sums up the message of the extract?
  - A. United we stand divided we fall.
  - B. Let's see which way the wind blows.
  - C. Practice makes a man perfect.
  - D. When life gets harder, challenge yourself to be stronger.

#### (29) Margie was disappointed. Margie was disappointed because

A. The book was boring	B. The teacher was repaired
C. She had to wait till the next day to read the book	D. Her geography marks were poor

(30) Why is Margie surprised to hear that the teacher in the book is a man?

(31) What is big break? How did Bismillah Khan get it?

(32) Which aspect of Bismillah Khan impressed you?

#### (33) Complete the analogy. (The Lost Child)

Sobbed: cried:: .....:: requested (34) The boy murmured every time he desired to buy anything. What trait of his do you identify? (Answer in one or two words only)

(35) "A flower seller hawked, 'A gulmohur, a garland of gulmohur!", The child seemed irresistibly drawn. He went towards the basket where the flowers lay heaped and half murmured, "I want that garland. Select the option that correctly captures the usage of the word 'drawn' in the extract.

- A. Brazil had drawn the match 1-1.
- B. Hussain has drawn some of the most amazing portraits.
- C. The fan was drawn towards the aura of his favourite superstar.
- D. The car was drawn by 2 horses.

36. Why did the child keep moving without getting any answers?

- A) because of distractions
- B) because of too many attractions
- C) because of his experience and assumed notions about his parents

D) none

37. Which emotions the child was going through initially and how did they change towards the end? (Answer in one sentence only)

38. The parents had to call the child again and again. He wanted everything he saw on the way. Do you think the child was greedy and careless. (yes/no)

39. How did the ticket-collector come to know that there was a monkey in grandfather's kit bag? (The Adventures of Toto)

- A. The ticket collector checked his bag and found out
- B. Toto had torn open his bag
- C. Toto had suddenly poked his head out of the bag
- D. Grandfather told the ticket collector

40.Fill in the blanks with suitable word/phrase.

To keep a pet one should be very .....and.....

41.Grand father gave Nana a slap across her haunches, and she jerked back, dragging Toto with her. He had

fastened on to her long ears with his sharp little teeth.

Complete the analogy with a suitable word from the extract.

Apparent : obvious :: .....: tied

42. Which thing decides a person's future according to this poem? (The Road Not Taken)

B) The path one leaves behind A) The path one chooses to walk C) The regrets D) The success 43. What is the message of this poem? A) Be wise while choosing and taking decisions B) Two roads are confusing C) Road is nothing but a pathway D) All 44. The tone of this poem in the last stanza is..... 45. What shows that the road has not been used by many people? A) The green and untrampelled grass on it B) The mud on it C) The broken stones on it D) All 46. What do the words 'Long I stood' mean in the poem? 47.He won't do what you tell him", means...... (Poem: Wind) 48. Strong wind blows as ......comes to an individual's life.( complete the sentence) 49. To face the adversities of life one should be.....(complete the sentence) 50. The poem 'Wind' is written ......hence there's no rhyming scheme or pattern in it. (complete the sentence)

# ग्रीष्मकालीन गृह अवकाश कार्य कक्षा - नवमी विषय - हिंदी

प्रश्न 1 नीचे दिए गए चित्रों के आधार पर पात्रों के नाम लिखें:-



प्रश्न 2 पाठ के आधार पर निम्न चित्रों की कोई दो विशेषताएं लिखिए।



(i)

(ii)



हिंदू मूया राम कही मुसलमान खुदाई कहे कबीर सो जीवता जे दुहूँ के निकटि न जाई।



(iii)

प्रश्न 3 निम्नलिखित अपठित काव्यांश को पढ़कर नीचे दिए गए प्रश्नों के उत्तर दीजिए-

एक दिन भी जी मगर तु ताज बनकर जी अटल विश्वास बनकर जी। अमर युग-गान बनकर जी आज तक तू समय के पद–चिह्न सा खुद को मिटाकर कर रहा निर्माण जग-हित एक सुखमय स्वर्ग सुंदर स्वार्थी दुनिया मगर बदला तुझे यह दे रही है-भूलता युग-गीत तुझको ही सदा तुझसे निकलकर 'कल' न बन तू जिंदगी का 'आज' बनकर जी जगत सरताज बनकर जी एक दिन भी जी मगर तू ताज बनकर जी।। बहुवैकल्पिक प्रश्न-1. ताज बनकर जी का क्या आशय है? (ख) नेता बनकर जी (क) राजा बनकर जी (घ) प्रभावी बनकर जी। (ग) धनी बनकर जी 2. यहाँ 'तू' किसे कहा गया है? (क) अबला नारियों को (ख) दीन-हीन मजदूरों को (ग) भोले-भाले मनुष्यों को (घ) किसानों को 3. स्वार्थी दुनिया कैसा व्यवहार करती है? (क) वह बेचारों को भूल जाती है (ख) वह निर्माण करने वालों को भूल जाती है (घ) वह बडों-बडों को याद रखती है। (ग) वह बलिदानियों को याद रखती है 4. जिंदगी का 'आज' बनकर जीने का क्या अर्थ है? (क) ठोस जीवन जीना (ख) सपनों में जीना (घ) वर्तमान को सुखी बनाना। (ग) भविष्य उज्ज्वल बनाना 5. **कथन (A) -**'ताज बनकर जी' का आशय है महत्त्वपूर्ण बनकर जी।

कारण (R) - दुनिया असली निर्माताओं को भुला देती है।

# विकल्प

(क) कथन सत्य है और कारण भी सत्य है।

(ख) कथन असत्य है और कारण भी असत्य है।

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(ग) कथन सत्य है किंतु कारण असत्य है।
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(घ) कथन असत्य है किंतु कारण सत्य है|

# प्रेश्न- 4 निम्नलिखित अपठित गद्यांश को पढ़कर नीचे दिए गए प्रश्नों के उत्तर दीजिए-

सिने जगत के अनेक नायक-नायिकाओं, गीतकारों, कहानीकारों और निर्देशकों को हिंदी के माध्यम से पहचान मिली है। यही कारण है कि गैर-हिंदी भाषी कलाकार भी हिंदी की ओर आए हैं। समय और समाज के उभरते सच को परदे पर पूरी अर्थवत्ता में धारण करने वाले ये लोग दिखावे के लिए भले ही अंग्रेजी के आग्रही हों, लेकिन बुनियादी और जमीनी हकीकत यही है कि इनकी पूँजी, इनकी प्रतिष्ठा का एकमात्र निमित्त हिंदी ही है। लाखों-करोड़ों दिलों की धड़कनों पर राज करने वाले ये सितारे हिंदी फिल्म और भाषा के सबसे बड़े प्रतिनिधि हैं।

'छोटा परदा' ने आम जनता के घरों में अपना मुकाम बनाया तो लगा हिंदी आम भारतीय की जीवन-शैली बन गई। हमारे आद्यग्रंथों-रामायण और महाभारत को जब हिंदी में प्रस्तुत किया गया तो सड़कों का कोलाहल सन्नाटे में बदल गया। ' बुनियाद' और 'हम लोग' से शुरू हुआ सोप-ऑपेरा का दौर हो या सास-बहू धारावाहिकों का, ये सभी हिंदी की रचनात्मकता और उर्वरता के प्रमाण हैं। 'कौन बनेगा करोड़पति' से करोड़पति चाहे जो बने हो, पर सदी के महानायक की हिंदी हर दिल की धड़कन और हर धड़कन की भाषा बन गई। सुर और संगीत की प्रतियोगिताओं में कर्नाटक, गुजरात, महाराष्ट्र, असम, सिक्किम जैसे गैर-हिंदी क्षेत्रों के कलाकारों ने हिंदी गीतों के माध्यम से पहचान बनाई। ज्ञान गंभीर 'डिस्कवरी' चैनल हो या बच्चों को रिझाने-लुभाने वाला 'टॉम एंड जेरी'- इनकी हिंदी उच्चारण की मिठास और गुणवत्ता अद्भुत, प्रभावी और ग्राह्य है। धर्म-संस्कृति, कला-कौशल, ज्ञान-विज्ञान-सभी कार्यक्रम हिंदी की संप्रेषणीयता के प्रमाण हैं।

# बहुविकल्पी प्रश्न

# 1. कथन (A) और कारण (R) - पढ़कर उचित विकल्प पर (√) लगाइए-

कथन (A)-हिंदी भारत की शेष भाषाओं से अधिक श्रेष्ठ है।

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कारण (R)-हिंदी की लोकप्रियता पूरे देश में है।
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(क) कथन (A) सही है और कारण (R) भी उचित प्रमाण है।

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(ख) कथन (A) गलत है और कारण (R) भी गलत है।
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(ग) कथन (A) गलत है किंतु कारण (R) सही है।

(घ) कथन (A) सही है किंतु कारण (R) गलत है।

# 2. गैर्- हिंदी क्षेत्र की सूची में कौन नहीं आता?

### 3. सुमेलित कीजिए-

कॉलम-1 कॉलम-2

1. बुनियाद	(a) संस्कृत
२. फिल्म	(b) अंग्रेजी
3. उर्वरता	(c) उर्दू

( <b>ず</b> ) 1-(c)2-(a), 3-(b)	(ख) 1-(c), 2-(b), 3-(a)
(ग) 1-(a), 2-(b), 3-(c)	(घ) 1-(b), 2-(c), 3-(a)

4. कोलाहूल सन्नाटे में क्यों बदल गया उदाहरण सहित लिखें।

5. संप्रेषणीयता का क्या आशय है अपने विचार लिखें।

(2) (2)

प्रश्न- 5 निम्नलिखित शब्दों का विलोमार्थी शब्दों से मिलान कीजिए-

सूची-1	सूची-॥
A तामसिक	1. नैसर्गिक
в. ग्राह्य	2. बहिरंग
c. कृत्रिम	3. सात्विक
D. अंतरंग	4. त्याज्य
E. अवनति	५. पुरातन
F. अधुनातन	6. तिरोभाव
G. आविभांव	७. विनीत
H. धृष्ट	8 उन्नति

प्रश्न- 6 नीचे छह अव्यवस्थित वाक्य-खण्ड दिए गए हैं, जिनका क्रमांक A, B, C, D, E और F है, लेकिन यह आवश्यक नहीं है कि ये इसी क्रम में हों, इन्हें सही क्रम में व्यवस्थित कीजिए।

(A) यदि उस देश की सरकार नागरिक बना लेती है तो ऐसा नागरिक राज्यकृत नागरिक कहलायेगा।

(B) यदि कोई व्यक्ति किसी दूसरे देश में जा बसे और वहाँ की नागरिकता प्राप्त करना चाहे तो वह ऐसा कर सकता है।

(C) भारत के अनेक लोग दक्षिण अफ्रीका तथा श्रीलंका भी गए हुए हैं।

(D) इसके लिए उसे अपने देश की नागरिकता का त्याग करना पड़ेगा तथा उस देश की सरकार से प्रार्थना करनी पड़ेगी कि उसे नागरिक बना लिया जाए।

(E) कई पीढियाँ बीतने के बाद भी वहाँ की सरकारें उन्हें अपने देश का नागरिक नहीं बना रही हैं।

(F) जैसे बहुत से भारतीय कनाडा गए हुए हैं और वहाँ प्रार्थना-पत्र देकर कनाडा के राज्यकृत नागरिक बन गए हैं।...

प्रश्न-7 चित्र के आधार पर लघु कहानी लिखिए |





# प्रश्न-8 निम्नलिखित चित्र के आधार पर संवाद लेखन कीजिए |



# प्रश्न 9 समास का विग्रह कर नाम लिखें।

समस्त पद	विग्रह	समास
1. दही बड़ा		
2. मेघनाथ		
3. षडानन		
4. रातोंरात		

### प्रश्न 10 उपसर्ग, प्रत्यय, व मूल शब्द बताइए|

शब्द	उपसर्ग	मूलशब्द	प्रत्यय
1-व्यापारिक			
2-दढ़ियल			

3-समर्पित		
४ जनगान में जाग	ਸੀ ਦੈ	

4-स्वागत में उपसर्ग है.

(1) स्व (2) स (3) स्वा (4) सु

### प्रश्न 11 अलंकार भेद कारण सहित बताइए।

1. संकट कटै मिटै सब पीरा	
2. तू मोहन के उरबसी, है उरबसी समान	
3. सुबरन को ढूँढत फिरत, कवि, व्याभिचारी,	
चोर	
4. दे रहा हो कोकिल सानंद सुमन को ज्यों	
मधुमय संदेश	

### प्रश्न 12 अर्थ के आधार पर वाक्य भेद कारण सहित बताइए।

- 1. मैं थोड़े ही उसके साथ कहीं जाता हूँ।
- 2. कल 15 अगस्त होने के कारण समाचार पत्र नहीं छप सका।
- 3. हरिद्वार में गंगा के किनारे ऊँची पहाड़ी पर मनसा देवी का मंदिर है ।
- 4. कृपया सड़क के बाएँ तरफ चलें।

### कृतिकाः

- 1. इस जल प्रलय में
- लेखक ने किस पत्रिका में 'कथा-दशक' के अंतर्गत बाढ़ की कहानी को नए पाठ के साथ प्रस्तुत किया था?
- 2. लोगों को किस की तरह पटना के लापता होने का भय था?
- 3. 'मनिहारी' क्षेत्र में किस नदी से बाढ़ आई थी?
- 4. उस आदिवासी जाति को क्या कहते हैं, जो दोने-पत्तल आदि बनाने का काम करती है?

# 2. मेरे संग की औरतें

- 1. लेखिका ने किस दिशा में उल्लेखनीय प्रयास किए ?
- 2. लेखिका के पिता को किस परीक्षा में बैठने से रोक दिया गया ?
- 3. लेखिका के पिता ने उसे \_\_\_\_\_ उपन्यास पढ़ने के लिए दिया।
- 4. किसने, किसको कहा:-
  - 1) "हमारी बहू तो ऐसी है कि धोई, पोंछी और छींके पर टाँग दी।"......
  - 🗵 "नहीं चाहिए, में तो रोज नहाती हूँ ।".....

### दीर्घ उत्तरात्मक प्रश्न

प्रश्न-मृदला गर्ग ने बच्चों की शिक्षा के लिए क्या प्रयास किए?

### संकेत बिन्दु

- 1. बिशप से आग्रह
- 2. विद्यालय स्वयं खोलने का मन
- 3. कन्नड़-अंग्रेजी हिंदी की शिक्षा
- 4. लोगों का साथ

### लघु उत्तरात्मक प्रश्न

प्रश्न- कृतिका और क्षितिज में कौन-कौन से साहित्यिक उपकरण पाए जाते हैं और वे किस प्रकार से प्रयोग किए गए हैं?

प्रश्न-लेखिका के अपनी नानी से प्रभावित होने के क्या कारण थे?

# संकेत बिन्दु

- 1. साहसी व्यक्तित्व
- 2. स्वतंत्रता की सच्ची भावना
- 3. जीवन भर परदे में रहने के बावजूद, पर-पुरुष से मिलने की हिम्मत ।

# प्रश्न- पहले सवैये से किस प्रकार के भाव का पता चलता है?

- (a) प्रेमिका के प्रति समर्पित प्रेमभाव का।
- (b) द्वारकापुरी के प्रति प्रेमभाव का।
- (c) द्वारकाधीश और उनकी क्रीड़ास्थली के प्रति प्रेमभाव का।
- (d) ब्रज की संस्कृति के प्रेमभाव का।
- प्रश्न- सालिम अली का एक और नाम \_\_\_\_\_है।
- प्रश्न- साइलेंट वैली" किसे कहा गया है?
- प्रश्न- सालिम अली की जीवन-संगिनी का क्या नाम था?
- प्रश्न- रसखान ब्रजभूमि के करील कुंजों पर क्या न्योछावर करना चाहते हैं?
- प्रश्न- कृष्ण का रूप धारण करने के लिए गोपी \_\_\_\_\_\_वस्त्न पहनने को तैयार है।
- प्रश्न- गधे के चेहरे पर \_\_\_\_\_ भाव छाया रहता है।
- प्रश्न- कुची -कुची से अभिप्राय है......
- प्रश्न- वैशाख नंदन किसे और क्यों कहा जाता है?
- प्रश्न- कुञ्जर ग्रंथियां किसे कहा गया है? इसकी कितनी संख्या और कितना वजन है?
- प्रश्न- 'सूर्य' को कबीर ने किसकी संज्ञा दी है?
- प्रश्न- हरि-भजन के लिए किस भावना का होना आवश्यक है?
- प्रश्न- कबीर के अनुसार...... मनुष्य सही मायनों में जीवित कहलाता है।

# **MATHEMATICS**

1. In between any tw	vo numbers, there are	e:		
a. Only one rational number		b. Two rational numbers		
c. Infinite rational numbers		d. No rational number		
2. Every rational nu	umber is a			
a. Whole number	b. Natural number	c. Integer	d. Real number	
3. Which of the follo	owing is an irrational	number?		
a. $\sqrt{16}$	b. $\sqrt{\frac{12}{3}}$	c. $\sqrt{12}$	d. $\sqrt{100}$	
4. $3\sqrt{6} + 4\sqrt{6}$ is equ	al to:			
a. $6\sqrt{6}$	b. 7√6	c. 4√12	d. $7\sqrt{12}$	
5. $\sqrt{6} \times \sqrt{27}$ is equa	l to:			
a. $9\sqrt{2}$	b. $3\sqrt{3}$	c. $2\sqrt{2}$	d. $9\sqrt{3}$	
6. Two angles whose	e sum is equal to 180°	are called:		
a. Vertically opposite	angles	b. Complementary a	ngles	
c. Adjacent angles	6	d. Supplementary an	gles	
7.The angles of a tri	angle are in the ratio	5: 3: 7. The triangle	is	
(a) a right triangle	-	(b) an acute-angled t	riangle	
(c) an obtuse-angled	triangle	(d) an isosceles triangle		
8. An exterior angle	of a triangle is 105°	and its two interior of	pposite angles are equal. Each of these	
equal angles is				
(a) $37\frac{1}{2}^{\circ}$	(b) $72\frac{1}{2}^{\circ}$	(c) 75°	(d) $52\frac{1}{2}^{\circ}$	
9. If one of the angle	es of a triangle is $130^\circ$	, then the angle betw	een the bisectors of the other two angles	
can be	0	<i>,</i> 0	5	
(a) 50°	(b) 65°	(c) 145°	(d) 155°	
10. If two interior a	ngles on the same side	e of a transversal inte	ersecting two parallel lines are in the	
ratio 2:3, then the g	greater of the two ang	gles is:		
(a) 54°	(b) 108°	(c) 120°	(d) 136°	
11. Two parallel line	es intersect at:			
a. One point	b. Two points	c. Three points	d. Null	
12. The name of the	vertical line in the ca	artesian plane which	determines the position of a point is	
called:				
a. Origin	b. X-axis	c. Y-axis	d. Quadrants	
13. The section form	ned by horizontal and	d vertical lines deterr	nining the position of the point in a	
cartesian plane is ca	alled:			
a. Origin	b. X-axis	c. Y-axis	d. Quadrants	
14. If the coordinate	es of a point are (0, -4	), then it lies in:		
a. X-axis	b. Y-axis	c. Third quadrant	d. Fourth quadrant	
15. A quadrant in w	which both x and y val	lues are negative is		
a. First quadrant	b. Second quadrant	c. Third quadrant	d. Fourth quadrant	

16. Points (1, -1), (2, -2), (4, -5), (-3, -4) a. lie in II quadrant b. lie in III quadrant c. lie in IV quadrant d. Does not lie in the same quadrant 17. The sides of a triangle are 122 m, 22 m and 120 m respectively. The area of the triangle is: b. 1300 *m*<sup>2</sup> a.  $1320 m^2$ c.  $1400 m^2$ d.  $1420 m^2$ 18. The sides of a triangle are in the ratio 12: 17: 25 and its perimeter is 540 cm. The area is: a. 1000 *cm*<sup>2</sup> b.  $5000 \ cm^2$ c.  $9000 \ cm^2$ d. 8000 *cm*<sup>2</sup> 19. The equal sides of the isosceles triangle are 12 cm, and the perimeter is 30 cm. The area of this triangle is:

a.  $9\sqrt{15} \ cm^2$  b.  $6\sqrt{15} \ cm^2$  c.  $3\sqrt{15} \ cm^2$  d.  $\sqrt{15} \ cm^2$ 

20. The area of an equilateral triangle having side length equal to  $\frac{\sqrt{3}}{4}$  cm (using Heron's formula) is:

a. 
$$\frac{2}{27} cm^2$$
 b.  $\frac{2}{15} cm^2$  c.  $\frac{3\sqrt{3}}{64} cm^2$  d.  $\frac{3}{14} cm^2$ 

**21.** The sides of a triangle are in the ratio of 3: 5: 7 and its perimeter is 300 cm. Its area will be:a.  $1000\sqrt{3} \ cm^2$ b.  $1500\sqrt{3} \ cm^2$ c.  $1700\sqrt{3} \ cm^2$ d.  $1900\sqrt{3} \ cm^2$ 

### Case study based MCQ'S

**Case Study 1:**A group of students is learning about Heron's Formula for finding the area of a triangle. They encountered the following scenario:

Rohan and Kavya came across a triangular field in their village. They made the following observations:

1. The lengths of the three sides of the triangular field are 8 meters, 12 meters, and 15 meters.

2. The perimeter of the triangular field is 35 meters.

Based on this information, the students were asked to apply Heron's Formula to find the area of the triangular field. Let's see if you can answer the questions correctly:

#### **MCQ Questions:**

#### 22. The semi perimeter of the triangular field is:

(a) 8 meters	(b) 12 meters	(c) 15 meters	(d) 17.5 meters			
23. Using Heron's Formula, the area of the triangular field is:						
(a) $24 m^2$	(b) 30 <i>m</i> <sup>2</sup>	(c) $36 m^2$	(d) $40 m^2$			
24. The type of triangle formed by the sides of the field is:						
(a) Equilateral	(b) Isosceles	(c) Scalene	(d) Right-angled			
25. The length of the altitude corresponding to the side of 15 meters is:						
(a) 2 meters	(b) 4 meters	(c) 6 meters	(d) 8 meters			

#### 26. The lengths of the altitudes corresponding to the sides of 8 meters and 12 meters are:

(a) 4 meters and 6 meters (b) 6 meters and 8 meters

(c) 8 meters and 10 meters (d) 10 meters and 12 meters

**Case Study 2:** A group of students is studying Heron's Formula for finding the area of a triangle. They encountered the following scenario:

Neha and Mohan went on a field trip to a riverbank. They noticed a triangular piece of land that they wanted to measure and calculate its area. They made the following observations:

- 1. Neha measured the lengths of the three sides of the triangular piece of land as 7 meters, 9 meters, and 11 meters.
- 2. Mohan measured the lengths of the three sides of the same triangular piece of land as 10 meters, 12 meters, and 15 meters.

Based on this information, the students were asked to apply Heron's Formula to find the area of the triangular piece of land. Let's see if you can answer the questions correctly:

#### **MCQ Questions:**

27. Using Neha's measurements, the semi perimeter of the triangular piece of la	and is:
---	---------

- (a) 13 meters (b) 16 meters (c) 19 meters (d) 23 meters
- 28. Using Neha's measurements, the area of the triangular piece of land is:
- (a)  $24 m^2$  (b)  $26 m^2$  (c)  $28 m^2$  (d)  $30 m^2$

Q29. Using Mohan's measurements, the semi perimeter of the triangular piece of land is:

(a) 16 meters (b) 18 meters (c) 21 meters (d) 25 meters

Q30. Using Mohan's measurements, the area of the triangular piece of land is:

(a)  $40 m^2$  (b)  $42 m^2$  (c)  $45 m^2$  (d)  $48 m^2$ 

Q31. The measurements taken by Neha represent a triangle that is:

(a) Equilateral (b) Isosceles (c) Scalene (d) Right-angled

### Read the Source/Text given below and answer any four questions:



#### Read the Source/Text given below and answer any four questions:

Maths teacher draws a straight-line AB shown on the blackboard as per the following figure.



# (PHYSICS)

1.	What is the direction of velocity of an object moving along a circular path?					
	(a) Inward	(b) Outward	(c) Tangential	(d) Upward		
2.	A particle mover ov	A particle mover over three quarters of a circle of radius 'r'. What is the magnitude of its displacement?				
	(a) <i>r</i>	(b) $\sqrt{2}r$	(c) 2 <i>r</i>	(d) None of these		
3.	A particle moves 3	m north, then 4m east	and finally 6 m south.	The magnitude of displacement is		
	(a) 3 <i>m</i>	(b) 4 <i>m</i>	(c) 5 <i>m</i>	(d) None of these		
4.	A cyclist completes	8 8 revolutions of a circ	cular track of radius 98	m with uniform speed in 40 minutes.		
	The speed of cyclist is					
	(a) 2 <i>m/s</i>	(b) 2.05 <i>m/s</i>	(c) 2.1 <i>m/s</i>	(d) None of these		
5.	The momentum of a man of mass 75 kg when he walks with a velocity of 2 m/s is					
	(a) 100 <i>kg m/s</i>	(b) 150 <i>kg m/s</i>	(c) 200 <i>kg m/s</i>	(d) None of these		
6. Which would require a greater force accelerating a 3 kg mass at $4m/s^2$ or a 5 kg mass at $2m/s^2$ ?						
	(a) 3 <i>kg</i> mass	(b) 5 <i>kg</i> mass	(c) Both are equal	(d) None of these		
7. A ball is thrown vertically upwards. Its momentum at the highest point				point is		
	(a) 0	(b) 9.8 <i>kg m/s</i>	(c) −9.8 <i>kg m/s</i>	(d) None of these		
8.	There are three solids made up of aluminum, steel and wood of the same shape and volume. The solid					
	with highest inertia is					
	(a) aluminium	(b) steel	(c) wood	(d) None of these		
9.	State two advantage	es of plotting distance t	time graph.			

- 10. Under what conditions are the three equations of motion applicable?
- 11. Can an object have constant speed and still be accelerating? Give an example.
- 12. Give the net force acting on a body at rest.

### **Case Study Question**

Suppose the boy first runs a distance of 100 metres in 50 seconds in going from his home to the shop in the East direction, and then runs a distance of 100 metres again. in 50 seconds in the reverse direction from the shop to reach back home from where he started



13. Find the speed of the boy.

(a) 1 m/s

(a) 1 m/s (b) 2 m/s (c) 3 m/s (d) none of these

(b) 2 m/s

14. Find the Velocity of the boy.

(c) 3 m/s (d) 0 m/s

- 15. A boy is sitting on a merry-go-round which is moving with a constant speed of 10m/s. This means that the boy is :
  - (a) at rest (b) moving with no acceleration
  - (c) in accelerated motion (d) moving with uniform velocity
- 16. In which of the following cases of motion, the distance moved and the magnitude of displacement are equal?

- (a) if the car is moving on straight road
- (b) if the car is moving on circular road
- (c) if the pendulum is moving to and fro
- (d) if a planet is moving around the sun

### (CHEMISTRY)

1.	Intermolecular force of attraction is maximu	ım in	
	(a) solids (b) liquids	(c) gases	(d) plasma particles.
2.	Gases are liquified under		
	(a) high pressure, high temperature	(b) high pressure, low	w temperature
	(c) low pressure, high temperature	(d) low pressure, low	temperature.
3.	Particles of a liquid		
	(a) are most ordered	(b) move randomly	
	(c) have large intermolecular spaces	(d) can slip and slid of	over each other.
4.	Which of the following decreases the rate of	f evaporation?	
	(a) Surface area (b) Humidity	(c) Temperature	(d) Wind.
5.	The intermixing of particles of two substance	ces on their own is kno	own as
6.	The rate of diffusion of all substances is hig	her in liquids state tha	n in
7.	The state of matter can be changed by changed	ging or	
8.	Rate of evaporation increases with of	the vessel.	
9.	select a heterogeneous mixture of the follow	ving:	
	(a) Air (b) <i>NaCl</i> in water	(c) Emulsion	(d) Alloy
10.	. Which of the following properties is not cha	aracteristic of colloidal	particles?
	(a) particles are uniformly distributed through	ghout the solution	
	(b) particles from their solution cannot be se	eparated by centrifugat	tion
	(c) particles do not settle down when left un	disturbed	
	(d) particles scatter the beam of visible light	t	
11.	. Cloud is an example of		
	(a) solid dispersed in a gas	(b) liquid dispersed i	n a gas
	(c) liquid dispersed in a solid	(d) solid dispersed in	a gas
12.	. The solubility of a salt in water is 20 g/100	g at 25° C. It increases	10% for every 5° C rise of temperature
	up to 50°C and then becomes constant. A so would be	olution of 26 g of the sa	ame salt in 100 g of water at 35° C
	(a) saturated (b) unsaturated	(c) translucent	(d) colloidal
13.	. Which of the following is a physical change	??	
	(a) Electric current is passed through water	(b) Burning of a canc	lle
	(c) Making of curd from milk	(d) electric current is	passed through a bulb and its glows

### **Case Study Question**

Look at the diagram on the right side. Jar A contains a red-brown gas whereas jar B contains a colourless gas. The two gas jars are separated by a glass plate placed between them. We observe that the red-brown gas will diffuse from jar A into colourless gas in jar B due to which is red-brown colour will also spread into jar B

- 14. What name is given to the phenomenon which takes place?
- (b) intrusion (c) diffusion (a) distribution
- 15. Name the brown gas which could be in jar A.
  - (b) carbon vapour (a) Bromine vapour (c) sulphur vapour (d) phosphorous vapour

16. Which is the colourless gas most likely to be present in jar B?

- (a) Bromine vapour (b) oxygen (c) air (d) None of these
- 17. When a gas jar full of air is placed upside down on a gas jar full of bromine vapours, the red-brown vapours of bromine from the lower jar go upward into the jar containing air. In this experiment:
  - (a) air is heavier than bromine
  - (b) both air and bromine have the same density
  - (c) bromine is heavier than air
  - (d) bromine cannot be heavier than air because it is going upwards against gravity
- 18. When a gas jar containing colourless air is kept upside down over a gas jar full of brown-coloured bromine vapour, then after some time, the brown colour of bromine vapour spreads into the upper gas jar making both the gas jars appear brown in colour. Which of the following conclusion obtained from these observations is incorrect?
  - (a) bromine vapour is made of tiny particles which are moving
  - (b) air is made up of tiny particles which are moving
  - (c) the particles of bromine are moving but those of air are not moving
  - (d) even though bromine vapour is heavier than air, it can move up against gravity

# (BIOLOGY)

- 1. Which of these is not related to endoplasmic reticulum?
  - (a) It behaves as transport channel for proteins between nucleus and cytoplasm.
  - (b) It transports materials between various regions in cytoplasm.
  - (c) It can be the site of energy generation.
  - (d) It can be the site for some biochemical activities of the cell.
- 2. Following are a few definitions of osmosis. Read carefully and select the correct definition.
  - (a) Movement of water molecules from a region of higher concentration to a region of lower concentration through a semipermeable membrane.
  - (b) Movement of solvent molecules from its higher concentration to lower concentration.
  - (c) Movement of solvent molecules from higher concentration to lower concentration of solution through a permeable membrane.
  - (d) Movement of solute molecules from lower concentration to higher concentration of solution through a semipermeable membrane
- 3. Plasmolysis in a plant cell is defined as
  - (a) break down (lysis) of plasma membrane in hypotonic medium.
  - (b) shrinkage of cytoplasm in hypertonic medium.
  - (c) shrinkage of nucleoplasm.
  - (d) none of them
- 4. Which of the following are covered by a single membrane?
  - (a) Mitochondria (b) Vacuole (c) Lysosome (d) Plastid



(d) effusion

- 5. Find out the false sentences
  - (a) Golgi apparatus is involved with the formation of lysosomes
  - (b) Nucleus, mitochondria and plastid have DNA; hence they are able to make their own structural proteins.
  - (c) Mitochondria is said to be the power house of the cell as ATP is generated in them.
  - (d) Cytoplasm is called as protoplasm
- 6. Find out the correct sentence
  - (a) Enzymes packed in Lysosomes are made through RER (rough endoplasmic reticulum)
  - (b) Rough endoplasmic reticulum and smooth endoplasmic reticulum produce lipid and protein respectively
  - (c) Endoplasmic reticulum is related with the destruction of plasma membrane
  - (d) Nucleoid is present inside the nucleoplasm of eukaryotic nucleus
- 7. Cell theory was given by
  - (a) Schleiden and Schwann (b) Virchow (c) Hooke (d) Haeckel
- 8. The only cell organelle seen in prokaryotic cell is(a) mitochondria(b) ribosomes(c) plastids(d) lysosomes
- 9. Organelle without a cell membrane is

(a) ribosome (b) golgi apparatus (c) chloroplast (d) nucleus

- 10. Give one word answer to the following -
  - (a) Living matter of the cell.
  - (b) Cell without well-defined nucleus

11. If cells of onion peel and RBC are separately kept in hypotonic solution, what among the following will take place? Explain the reason for your answer.

- (a) Both the cells will swell.
- (b) RBC will burst easily while cells of onion peel will resist the bursting to some extent.
- (c) a and b both are correct.
- (d) RBC and onion peel cells will behave similarly.
- 12. Name the organelles which show the analogy written as under
  - (a) Transporting channels of the cell------
  - (b) Power house of the cell—
  - (c) Packaging and dispatching unit of the cell-
  - (d) Digestive bag of the cell------
  - (e) Storage sacs of the cell—
  - (f) Kitchen of the cell—
  - (g) Control room of the cell-----
- 13. Which kind of plastid is more common in
  - (a) roots of the plant, (b) leaves of the plant, (c) flowers and fruits
- 14. What are the consequences of the following conditions?
  - (a) A cell containing higher water concentration than the surrounding medium.
  - (b) A cell having low water concentration than the surrounding medium.
  - (c) A cell having equal water concentration to its surrounding medium.

For questions number 15 and 16, two statements are given - one labelled as Assertion (A) and the other labelled as Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:

(a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of the Assertion (A).

(b) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of the Assertion (A).

- (c) Assertion (A) is true, but Reason (R) is false.
- (d) Assertion (A) is false, but Reason (R) is true.
- 15. Assertion: The endoplasmic reticulum which lacks ribosomes is called smooth endoplasmic reticulum **Reason:** SER is mainly involved in protein synthesis.
- Assertion: Mitochondria and chloroplasts are semiautonomous organelles.
  Reason: They are formed by division of pre-existing organelles and contain DNA but lack protein synthesizing machinery.

#### 17. Case Study

Plant cells, in addition to the plasma membrane, have another rigid outer covering called the cell wall. The cell wall lies outside the plasma membrane. The plant cell wall is mainly composed of cellulose. Cellulose is a complex substance and provides structural strength to plants. When a living plant cell loses water through osmosis there is shrinkage or contraction of the contents of the cell away from the cell wall. This phenomenon is known as plasmolysis.

#### (i) Which of the following is the main constituent of cell wall?

(a) Proteins	(b) Lipids	(c) Lipoproteins	(d) Cellulose					
(ii) Which of the fol	(ii) Which of the following is outer most covering of the plant cell?							
(a) Cell membrane	(b) Plasma membrar	ne (c) Cell wall	(d) Cellulose					
(iii) Choose the corr	(iii) Choose the correct set of statements from the following.							
Statement 1 – Cell wall lies outside the plasma membrane.								
Statement 2 – Cell wall is mainly composed of cellulose.								
Statement 3 – Cellulose is a complex substance and provides structural strength to plants.								
(a) Statement 1 & 3	(b) Statement 1 & 2	(c) Statement 2 & 3	(d) All statements are correct					
	1 1 1 0							

(iv) What is mean by plasmolysis?

(v) What is the reason behind structural strength of plant cell?

### HISTORY

1. What was 'Subsistence Crisis which occurred frequently in France? (a) An extreme situation endangering the basic means of livelihood (b) Subsidy in food grains (c) Large-scale production of food grains (d) None of the above 2. Identify the statement which is wrong with reference to Robespierre. (a) He banned the use of white flour. (b) He rationed meat and bread. (d) He converted churches into barracks or offices. (c) He exempted his party men from punishment. 3. The National Assembly framed a constitution in 1791 to limit the powers of the (b) businessmen (a) monarch (c) wealthy man (d) press 4. Which of the following events took place as a result of the revolt of Jacobins in 1792? (a) Massacre of the king's guards (b) Storming of the Palace of the Tuileries (c) King was held in hostage for several hours. (d) All of the above 5. French women demanded the right (b) to be elected to the assembly. (c) to hold political office. (d) All of the above (a) to vote. 6. A triangular slave trade took place between Europe, the America and (d) None of the above (a) Africa (b) Asia (c) Australia 7. Assertion (A): Caught in a frenzy of fear, peasants in several districts seized hoes and pitchforks and attacked chateaux. They looted hoarded grain and burnt down documents containing records of manorial dues. Reason (R): In the countryside rumours spread from village to village that the price of the foodgrains are going to increase. (i) Both A and R are true and R is correct explanation of the assertion. (ii) Both A and R are true but R is not the correct explanation of the assertion. A is true but R is false. (iii)

(iv) A is false but R is true.

8. Assertion (A): Peasants and workers participated in French Revolution.

Reason (R): They wanted to protest against increasing taxes and food security.

- (i) Both A and R are true and R is correct explanation of the assertion.
- (ii) Both A and R are true but R is not the correct explanation of the assertion.
- (iii) A is true but R is false.
- (iv) A is false but R is true.

9. Assertion (A): The Estates General was a political body.

Reason (R): Only royal family members can participate in the body.

- (i) Both A and R are true and R is correct explanation of the assertion.
- (ii) Both A and R are true but R is not the correct explanation of the assertion.
- (iii) A is true but R is false.
- (iv) A is false but R is true.

10. Assertion (A): The ideas of philosophers were discussed intensively in salons and coffee houses and spread among people through books and newspapers.

Reason (R): These were frequently read aloud in groups for the benefit of those who could not read or write.

- Both A and R are true and R is correct explanation of the assertion. (i)
- (ii) Both A and R are true but R is not the correct explanation of the assertion.
- A is true but R is false. (iii)
- A is false but R is true. (iv)

11. Read the given passage and answer the questions that follow:

In his Two Treatises of Government, Locke sought to refute the doctrine of the divine and absolute right of the monarch. Rousseau carried the idea forward, proposing a form of government based on a social contract between people and their representatives. In The Spirit of the Laws, Montesquieu proposed a division of power within the government between the legislative, the executive and the judiciary. This model of government was put into force in the USA, after the thirteen

Colonies declared their independence from Britain. The American constitution and its guarantee of individual rights was an important example for political thinkers in France.

(a) Who was the author of the book "The Spirit of the Laws"?

(b) Where did the model of division of power within the government first come into effect?

(c) What was the central theme of the book 'Two Treatises of Government'? Who wrote the book?

12. Read the given passage & answer the questions that follow:

From the very beginning women were active participants in the events which brought about so many important changes in French society. They hoped that their involvement would pressurise the revolutionary government to introduce measures to improve their lives. Most women of the third estate had to work for a living. They worked as seamstresses or laundresses, sold flowers, fruits and vegetables at the market, or were employed as domestic servants in the houses of prosperous people. Most women did not have access to education or job training. Only daughters of nobles or wealthier members of the third estate could study at a convent, after which their families arranged a marriage for them. Working women had also to care for their families, that is, cook, fetch water, queue up for bread and look after the children. Their wages were lower than those of men.

(a) Name the most famous club started by women to voice their interests.

(b) What laws were introduced by the revolutionary government to help improve the lives of women? Mention any two laws.

(c) When did they finally get the right to vote?

13. On the outline of political map of France, locate & label the following places.

(a) Nantes (b) Marseilles (c) A port related to slave trade (d) Paris.

### POLITICAL SCIENCE

1. Which of these statements is/are correct in the case of Zimbabwe?

(a) Popular governments are always democratic. (b) Popular governments can be undemocratic.

- (c) Popular leaders can be autocratic.
- - (d) Both (b) and (c).

2. Which party has ruled Zimbabwe since its independence and who is its ruler?					
(a) ZANU-PF, Robert Mugabe			(b) ZANU-PF, Kenneth Kaunda		
(c) Zimbabwe Freedom Party. Nelson Mandela			(d) Zimbabwe	e Party, P Johnson	
3. What is th	e Chinese Parliament called?				
(a) National	People's Congress	(b) Ch	inese Commun	ist Party	
(c) The Com	munist party of China	(d) Peo	ople's Congress	s	
4. It has near	ly members elected from a	ll over (	China?		
(a) 2000	(b) 3000	(c) 250	00	(d) 3500	
5. When did	Mexico become independent?				
(a) 1979	(b) 1981	(c) 198	30	(d) 1982	
6. In a demo	cracy the final decision-making	g power	must rest with		
(a) The offic	ial heads	(b) The	e monarchs		
(c) Those ele	ected by the people.	(d) No	one of the above	2	
7. Estonia ha	as made its citizenship rules in s	such a w	vay that people	belonging to Russian minority find it	
difficult to g	et the				
(a) economic	e rights.	(b) rig	b) right to vote.		
(c) right to w	vomen's vote.	(d) All	of the above		
8. What kind	l of oppression did Mugabe give	e to his j	people?		
(a) Oppositio	on party workers were harassed	and the	ir meeting disr	upted.	
(b) Public pr	otests and demonstrations agair	nst the g	overnment wei	re declared illegal	
(c) There wa	s a law that limited the right to	criticise	e the President		
(d) All of the	e above				
9. Assertion (A): Democracy enhances the dignity of citizens.					
Reason (R):	Democracy is based on the prin	nciple of	f political equal	lity.	
(i) B	(i) Both A and R are true and R is correct explanation of the assertion.				
(ii) B	Both A and R are true but R is not the correct explanation of the assertion.				
(iii) A	is true but R is false.				
(iv) A	is false but R is true.				
10. Assertion (A): Every democracy has to try to realise the ideals of a democratic decision making.					
Reason (R): Every country is a perfect democracy.					
(i) B	(i) Both A and R are true and R is correct explanation of the assertion.				
(ii) B	(ii) Both A and R are true but R is not the correct explanation of the assertion.				
(iii) A is true but R is false.					
(iv) A	(iv) A is false but R is true.				
11. Assertion (A): Democracy provides a method to deal with differences and conflicts.					
Reason (R): In a democracy, each adult citizen must have one vote and each vote must have one value.					

- (i) Both A and R are true and R is correct explanation of the assertion.
- (ii) Both A and R are true but R is not the correct explanation of the assertion.
- (iii) A is true but R is false.

(iv) A is false but R is true.

12. Read the given passage and answer the questions that follow:

In Pakistan, General Pervez Musharraf led a military coup in October 1999. He overthrew a democratically elected government and declared himself the 'Chief Executive' of the country. Later he changed his designation to President and in 2002 held a referendum in the country that granted him a five year extension. Pakistani media, human rights organisations and democracy activists said that the referendum was based on the cartoon malpractices and fraud. In August 2002 he issued a 'Legal Framework Order' that amended the Constitution of Pakistan.

(a) What is 'Legal Framework Order'?

- (b) Why Pakistan under General Musharraf should not be called a democratic country?
- (c) Who led the military coup in Pakistan?
- (d) What step did he take to establish himself as the ruler of Pakistan in 1999?

### GEOGRAPHY

- 1. Name the glaciers and passes that lie in the Great Himalayas.
- 2. In which of the following states of India Dudhwa National Park is located?
- (a) Madhya Pradesh (b) Uttar Pradesh (c) Rajasthan (d) West Bengal

3. By which name river Brahmaputra is known as in Tibet?

(a) Tsangpo (b) Lohit (c) Dihang (d) Dibang

4. The river Narmada has its source at the .....

(a) Brahmagiri Hills (b) Sahayadris (c) Amarkantak Hills (d) None of the above

5. Name the second largest river of the Peninsular India.

- (a) The river Godavari (b) The river Krishna
- (c) The river Kaveri (d) The river Mahanadi
- Assertion (A): The latitudinal and longitudinal extent of the mainland of India is about 30<sup>0</sup> but the East-West extent appears smaller than the North-South extent.

Reason (R): The North-South distance of India is 3214 km.

- (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.
- Assertion (A): India is bounded by young fold mountains in the North-West, North and North-East. Reason (R): The Himalayas lie on the Northern part of India.
  - (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.
- 8. The Ganga System: The Ganga is the most important river of India both from the point of view of its basin and cultural significance. It rises in the Gangotri glacier near Gaumukh (3,900 m) in the

Uttarkashi district of Uttarakhand. Here, it is known as the Bhagirathi. It cuts through the Central and the Lesser Himalayas in narrow gorges. At Devprayag, the Bhagirathi meets the Alaknanda; hereafter, it is known as the Ganga. The Alaknanda has its source in the Satopanth glacier above Badrinath. The Alaknanda consists of the Dhauli and the Vishnu Ganga which meet at Joshimath or Vishnu Prayag. The other tributaries of Alaknanda such as the Pindar joins it at Karna Prayag while Mandakini or Kali Ganga meets it at Rudra Prayag. The Ganga enters the plains at Haridwar. The Yamuna, the western most and the longest tributary of the Ganga, has its source in the Yamunotri glacier on the western slopes of Banderpunch range (6,316 km). It joins the Ganga at Prayag (Allahabad). It is joined by the Chambal, the Sind, the Betwa and the Ken on its right bank which originates from the Peninsular plateau while the Hindan, the Rind, the Sengar, the Varuna, etc. join it on its left bank. Much of its water feeds the western and eastern Yamuna and the Agra canals for irrigation purposes.

The Kosi is an antecedent river with its source to the north of Mount Everest in Tibet, where its main stream Arun rises. After crossing the Central Himalayas in Nepal, it is joined by the Son Kosi from the West and the Tamur Kosi from the east. It forms Sapt Kosi after uniting with the river Arun.

8.a From where does the right bank tributaries of the river Yamuna originates?

8.b What is the source of the river Kosi?

8.c Name the two headstreams of river Ganga? Where do they meet to form the river, Ganga?

- 9. Locate and label the following on the political map of India.
- 9.a The river Damodar.
- 9.b Ladakh mountain range.

### **ECONOMICS**

1.	Which age group of children does the Sarva Shiksha Abhiyan aim to promote education?						
	(a) 6-14 years	(b) 6-15 years	(c) 8-14 years	(d) 8-15 years			
2.	Disguised unemployr	Disguised unemployment could be traced in:					
	(a) mining activity	(b) service sector	(c) agriculture	(d) social forestry			
3.	In which sector shoul	d India increase maxin	num employment oppo	ortunities?			
	(a) mining activity	(b) service sector	(c) agriculture	(d) social forestry			
4.	Which of the following	ng is not an economic a	activity?				
	(a) Banking	(b) Teaching	(c) Dairy farming	(d) Farming for self-consumption			
5.	. Why are rural women employed in low-paid jobs?						
	(a) They do not need to work in high-paid jobs.						
	(b) They lack in education or the necessary skills.						
	(c) They are not allowed by their families to do high paid jobs.						
	(d) They are not aware of the wage structure.						
6.	The two determinants	s of earning by an indiv	vidual in the market are	2:			
	(a) Health and education (b) Education and skill						

(c) Age and education (d) Skill and age

- 7. Human resources refer to:
  - (a) The population of a country (b) The skills and abilities of individuals
  - (c) The financial resources of a nation (d) The natural resources available in an area
- 8. What does investment in human capital include?
  - (a) Building factories and industries (b) Training and education of individuals
  - (c) Construction of roads and infrastructure (d) Exploration of natural resources
- 9. Which sector is responsible for the formation of human capital?
  - (a) Primary sector (b) Secondary sector (c) Tertiary sector (d) None of the above
- 10. Which of the following is an example of human-made capital?
  - (a) Rivers (b) Factories (c) Forests (d) Minerals
- 11. What is the aim of the National Rural Employment Guarantee Act (NREGA)?
  - (a) To promote industrial growth (b) To provide employment opportunities in rural areas
  - (c) To improve agricultural productivity (d) To conserve natural resources
- 12. The term brain drain refers to:
  - (a) The movements of skilled individuals from one country to another.
  - (b) The migration of unskilled workers to urban areas.
  - (c) The loss of natural resources due to unsustainable practices.
  - (d) The decline in literacy rates in a population.
- 13. Which of the following statements is true about the population of a country?
  - (a) More population always leads to economic development
  - (b) Population growth is always a burden on the economy
  - (c) Population can be an asset if provided with proper education and skills
  - (d) Population has no impact on economic growth

### **ARTIFICIAL INTELLIGENCE**

- 1. Write some methods of communication.
- 2. Write the effects of stress on our life.
- 3. What is Stress management?
- 4. What do you mean by Self motivation?
- 5. Write some Factors Influencing Communication Skills.
- 6. What are the various areas where AI can be used?
- 7. Give any three examples of AI Domain.
- 8. What are the advantages of Smart Homes?
- 9. What are the different career opportunities in AI?
- 10. What are different AI project stages?

### MCQ (Multiple Choice Questions)

1. Which of the following machine requires input from the humans but can interpret the outputs

themselves?

a) Actuators b) Sensor c) Agents d) AI system

2. With so many people using electricity on a daily basis—whether it is to charge their cell phones or to use their TV—a lot of cables (made of plastic) must be used. Plastic destroys our ecosystem, yet we continue to produce it. Indispensable as it may seem, it has an adverse effect on the environment. The manufacturing of plastic is not exactly ecofriendly. With a little help from modern technology Elif discovered a way to help curb our plastic problem. She used banana peels as the main ingredient to make bio-plastics.

Which of the Sustainable Development Goal does this scenario relate to?

- a) Life on land b) Responsible consumption, and production
- c) Affordable and clean energy d) Sustainable cities and communities
- 3. information about three games are given below. Identify the game and the respective domain
  - 1. The players of this game have to guess what the opponents will choose and make an appropriate shape to defeat them.
  - 2. This is a simple twenty questions game in which the player can ask 20 Yes/No questions to identify the animal.
  - 3. In this game, the computer asks the player to find the objects that match certain images within a time limit.
- a) 1. Emoji Scavenger Hunt -> Computer vision; 2. Rock, Paper, Scissor -> Natural Language Processing;
- 3. Mystery Animal -> Data Sciences
- b) 1. Mystery Animal -> Data Sciences; 2. Emoji Scavenger Hunt -> Natural Language Processing;
- 3. Rock, Paper, Scissor -> Computer vision
- c) 1. Rock, Paper, Scissor -> Data Sciences; 2. Emoji Scavenger Hunt -> Natural Language Processing;
- 3. Mystery Animal -> Computer vision

d) 1. Rock, Paper, Scissor -> Data Sciences; 2. Mystery Animal -> Natural Language Processing; 3. Emoji Scavenger Hunt -> Computer vision  $\checkmark$ 4. When you search for 'Doctor' on a search website, the results for Doctor images might mostly come up as 'male'. Whereas for 'Nurse' most results would be 'female'. What does this depict? a) Gender bias b) Data Privacy c) Poor training d) Lack of access 5. Rahul gets feedback on his project work from his class teacher. Which of these options demonstrates positive attitude in this situation? (a) Rahul ignores the feedback. (b) Rahul takes the feedback but does not use it. (c) Rahul tells others that the teacher is wrong. (d) Rahul learns from the feedback and makes his project work better. 6. How can we manage stress? a. Be aware that you are stressed b. Identify what is causing you stress d. All of the above c. Apply stress management methods. 7. Grooming is a term associated with (a) time management (b) problem solving (c) neat and clean appearance (d) self-management 8. Niraj had difficulty in speaking English. He, therefore, avoided talking to his classmates. He believed that he can learn English by joining English speaking classes and in few days he was able to speak English fluently. Which of the following quality is he demonstrating? a) Personal hygiene and grooming b) Self-control c) Self-confidence d) Team work 9. Statement 1: The drone technology help farmers spot intrusions, crop diseases, predict the amount of crop production, and saves time and avoids the difficulties of physical manual inspections. Statement 2: The statement given above is an example of Natural Language Processing. a) Both Statement1 and Statement2 are correct b) Both Statement1 and Statement2 are incorrect c) Statement 2 is correct and Statement 1 is incorrect. d) Statement 1 is correct and Statement 2 is incorrect 10. Statement 1: AI is getting integrated into our lives seamlessly. Statement 2: Often, we do not even realize that we are using AI. a) Statement 2 is correct and Statement 1 is incorrect. b) Statement 1 is correct and Statement 2 is incorrect c) Both Statement 1 and Statement 2 are correct d) Both Statement 1 and Statement 2 are incorrect

### **INFORMATION TECHNOLOGY**

1. Physical exercise is used as a stress management technique because					
a) It improves blood circulation			b) improves self-image		
c) make us feel better			of the above		
2. Stress management prever	nts				
a) psychological disorders	b) behavioural proble	ems	c) both of the above	d) none of the above	
3. Which of the following sty	yles is not offered by O	penOff	ïce.org?		
a. Page Style	b. Frame Style		c. Presentation Style	d. Video Style	
4. Which of the style include	header and footers, bo	order, m	argins.		
a. Character Style	b. Page Style		c. Frame style	d. Presentation Style	
5. By what method we can k	now what the receiver	underst	ood or got the message	;	
a) transmitting	b) feedback		c) message	d) listening	
6. List any 3 websites of the	Indian government wh	ich prov	vide IT enabled service	es to the people.	
7. Write some methods of co	mmunication.				
8. What do you mean by a Se	entences and write part	s of a s	entence.		
9. What do you mean by Sel	f-management?				
10. What is Stress?					
11. Write the effects of stress	s on our life.				
12. What is Stress manageme	ent?				
13. What are the benefits of	Stress management?				
14. Explain Image Cropping.					
15. List methods of inserting images in a text document.					
16. What do you understand by the term: Text Wrapping					
17. What do you mean by Self-motivation?					
18. Write the four steps for effective Time management.					
19. Explain Grouping objects.					
20. Write some Factors Influencing Communication Skills.					
21. What do you understand by the term IT and ITeS?					
22. What are the pros and cons of using ICT?					
23. What precautions are required to ensure that ICT use is safe?					
24. What are the various processes of education where IT is used?					
25. Which are the prominent areas where IT is used in science and engineering?					

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