SUMMATIVE ASSESSMENT – 1 (2019 – 20)
Class 9   Subject- English Language and Literature
General Instruction :   Time : 3 Hrs.   M.M. : 80

- This paper consists of three sections Section A - Reading 20 marks
  Section B - Writing and Grammar 30 marks Section C Literature 30 marks
- All questions are compulsory.

Section A - Reading

1. Read the passage carefully and answer the following questions carefully: **(8)**

Sleep disorders have become a common occurrence in India. Forty year old Marketing 'Executive Aviral, early one morning returned to Delhi from New York. He was trying to recover from jet lag and was dead tired. To cure himself of this sleep problem, he forced himself to remain awake one whole day, as he thought he might be able to sleep at night. But this did not happen. "I hardly managed any sleep that night," Aviral recalled. Next day, he felt very uneasy at the office and had difficulty in concentrating on work. On his way back home, he stopped at one of the busy signals on Delhi roads, but due to excessive tiredness, fell asleep. He woke up suddenly, after the motorist behind him honked. Aviral realised that he couldn't drive any longer and decided to park his car in a quiet place. He took a nap of 2 hours in his car and only then could manage to drive back home safely.

Sleep disorder experts have pointed out that lack of sleep is the reason for many ailments. Dr Kumar Menon and his colleagues presented a paper on sleep disorders in Mumbai, in which they stressed that early detection of the problems is necessary and physician need to seriously view it as a disorders. They need to evaluate their patients on the basis of sleep history too.

Adequate sleep is important to one's lifestyle just like diet and exercise. According to Canadian expert on sleep disorders. Dr Jeffrey Lipsitz, on an average a healthy adult requires just over 8 hours of sleep at night. However, the amount varies between individuals.

Swarup Chatterjee, a 28 year old, IIM graduate and Assistant Manager at a BPO in Hyderabad is deprived of good sleep. Swarup is completely stressed Out due to overburden of work in his professional and personal life and often feels tired. He also knows it is bad for his health.

In a study conducted by sleep disorder experts, it was found that one-third of adults have been experiencing sleep disorders. |They get less than 7 hours of sleep every night.

Another study shows that 29% of Indians went to sleep only after midnight. The survey further mentioned that Indians were among the world's earliest risers. We should understand that 'early to rise' is good, provided that 'early to bed' principle is also followed.

1. On the basis of your reading of the passage, answer the following questions briefly:

                                                                                              (1x8=8)

   a. What has become a common problem in our country?

   b. What happened when Aviral could not sleep in the night?

   c. What is the view of Dr Jeffrey Lipsitz on sleep disorder?

   d. Lack of sleep is the reason for many_____.

   e. What was the result of a study conducted by sleep disorder experts?

   f. Just like_____ and_____, adequate sleep is important to one's lifestyle.

   g. What should Indians understand being early risers?

   h. Which word in the passage means 'sleep'?

2. Read the following passage carefully :   **(12)**

1. Do children really need such long summer breaks, was a question posed by some experts recently. Apparently, such a long break disrupts their development and comes in way of their learning'process. 'Let's get them back to their books, ' is perhaps the expert view|One would have thought the children are doing too much during their vacations and not too little, given the plethora of classes, camps and Workshops involving swimming, art, personality development, music, computers and the like. Even the trips taken in the name of holidays seem laden with exotic destinations and customised experience packed into a short period of time. We can do Europe in 10 days and Australia

in a week and come back armed with digital memories and overflowing suitcases. Holidays are in

and one thing alone - you went back to your native place, logging in with the emotional headquarters of your extended family and spent two months with a gaggle of uncles, aunts and first and second cousins. The happiest memories of the childhood of a whole generation seemed to be centred around this annual ritual of homecoming.

3. Summer was not really a break, but a joint. It was the bridge used to reaffirm one's connectedness with one's larger community. One did not travel, one returned. It was not an attempt to experience the new and the extraordinary but one that emphatically underlined the power of the old and the ordinary. With the change of time, what we seek from our summer breaks too has changed in a fundamental way.

4. Today, we are attached much more to our work and summer helps us temporarily detach from this new source of identity. We refuel our individual selves now; and do so with much more material than we did in the past. But for those who grew up in different times, summer was the best time of their lives.

1. Based on your reading of the passage, answer the following questions in about 30-40 words: (ant four)   (2 x   4=8)

    a. What do experts think about summer breaks?

    b. How do students spend their summer breaks?

    c. What were the writer's happiest moments of childhood?

    d. How are present day summer breaks different from those of the former days.

    e. How are travel and tour not a break from daily stress?

2. Choose the correct option for each :   X   (1x   4=4)

    i. Which word in the passage means 'made to suit one's needs'?

      (a) Attached (b)   plethora   (c)   Customized   (d)   gaggle

    ii. The word 'development' has-

      (a) -ment as a suffix   (b) -ment as a preix
    (c) De-as a prefix   (d) de-as a suffix

    iii. The opposite of emphatically is-

      (a) Carelessly (b)   casually (c) Irregularly (d)   foolishly

    iv. The phrase ' a far cry from' In para 2 means-

      (a) very distant from   (b) very different from

      (c) more busy than   (d) more harmful than

    v. Word in the passes that means 'starting again strongly' is......................

      (a) Emphatically   (b) reaffirm (c) attempt   (d)   detach

Section-B (Writing and Grammar) (30)

3. You are Ranjit / Rajni. You feel concerned about the impact of television advertising on children. Write an article on this issue for your school magazine in not more than 120 words.   **(8)**

OR

Write a paragraph on 'Save Environment' in about 120 words.

4. One day you dreamt that you became invisible. Write a short story based on your dream taking help from the points given below :   **(10)**
Hints : Shopping without using any money - watch movies - travel the whole world without ticket - visit famous places without entry ticket- disclose the planning and secret of terrorists to police - help them to nab the most dreaded terrorist of the world-rewarded a cash prize of a crore.

5. Fill in the blanks by choosing the most appropriate words/ phrases from the given options
  : (any four)   X   **(1 X 4=4)**

I wanted to go out (a)_____ I was absolutely fed up of sitting in the same place and working. I realized that my deadline (b)_____ fast approaching but a break was badly needed. I just (c)_____ continue without a break. My deadline for that day's incredible, awe inspiring column (d)_the Tribune was three hours away.
Meanwhile I had already tossed three ideas into (e)_____ recycle bin and was staring at the blank screen again.

A. (a) so (b) and (c) but (d) because   B. (a) was (b) will be (c) is (d) has

C. (a) wouldn't (b) couldn't (c) won't (d) can't   D. (a) at (b) on (c) in (d) for

E (a) a (b) an (c) the (d) or

6. Change the following sentences to passive voice.   4

     a. I am not cutting a tree

     b. She sings a song.

     c. They will not have planted a tree.

     d. She taught me English.

7. Fill in the blanks using given determiners: 4

     a. It is .... (a / the) one – rupee note.

     b. .... (the few / few) persons can keep a secret.

     c. Honest men speak ....(a / the) truth.

     d. .... (these / that) doctor charges high fees.

Section-C(Literature)

8. Read the following extract and answer the following questions given below: (1   ×4=4)
He won't do what you tell him. So, come , let's build strong homes.
Let's joint the doors firmly, Practice to firm the body. Make the heart steadfast.
Do this, and the wind will be friends with us.

     a. How does the wind behave?

     b. What does the poet suggest to be friend the wind?

     c. When will the wind be friends with us?

     d. Find out the similar word from the extract- **firm**

9. Answer any 5 of the following questions in 30-40 words : - (2   ×5=10)

     a. How is a shehnai different from pungi?

     b. What made Kezia's father punish her? Was he right to do so? .

     c. Why did Abdul Kalam want to leave Rameswaram?

     d. What did Iswaran do after Mahendra- left for office?

     e. What does the poet to do when it rains ?

     f. What was unusual about the book that Margie and Tommy find?

10. Answer any one of the following questions in about 100-150 words : **(8)**

How did Kezia feel in presence of her father?

OR

The intruder is boastful. He threatens Gerrard, "I'll make you crawl" Was he able to carry out his threat? What happened to him?

11. Answer any one of the following questions in about 100-150 words : **(8)**

Give details about Einstein's birth and education.

OR

Decisions should be made with a cool and rational mind. Discuss with reference to the story "In the Kingdom of Fools.

Time – 3 hours   Sub – Hindi   Class – 9th   MM. – 80

खंड – 1

1. सभी प्रश्न हल करना अनिवार्य है।

   गद्यांश को पढकर नीचे लिखे प्रश्नों के उतर दीजिए—

   विधाता की इस सुंदर सृष्टि के संचालक नर—नारी है। इन्हीं के सहयोग से सृष्टि की प्रक्रिया आगे बढ़ती है। आज का मानव संतान तो चाहता है लेकिन लड़की नहीं लड़का, क्योंकि उसका मानना है कि नाम करेगा रोशन जग में राज दुलारा। लड़की का पालन—पोषण करना पढ़ाना और उसकी शादी में दहेज देना ये सब बातें धन की बर्बादी नहीं तो क्या है? इन्हीं आधारों पर उसकी सोच बदल गई है। आज पुत्र को ही कुल—परम्परा बढ़ाने वाला व वृद्धावस्था का सहारा मानकर लोग कन्या जन्म नहीं चाहते है। आज के यांत्रिक युग में भ्रूण हत्या के द्वार कन्या जन्म को पहले ही रोक दिया जाता है और यह कार्य शिक्षित नर—नारी भी करते है विज्ञान ने ऐसे यंत्र बना लिए है जो कन्या संहार के कारण बन गये है समाज में लिंग भेद प्रतिदिन बढ़ता जा रहा है यह एक चिंता का विषय है।

   a. गद्यांश का उचित शीर्षक लिखिए।   1

   b. प्रतिदिन पद का समास—विग्रह कर समास का नाम लिखिए।   1

   c. संतान प्राप्ति को लेकर कुछ लोगों की क्या धारणा है?   2

   d. लिंग—भेद बढ़ने का कारण क्या है?   2

   e. कुछ लोग कन्या—जन्म को लेकर क्या सोचते है?   2

2. पद्यांश को पढ़कर नीचे लिखे प्रश्नों के उतर दीजिए—

   सत् गुरू ऐसा कीजिए, जैसा लोटा डोर।

   गला बंधावै आपका, पानी पिवै ओर।।

   सत् गुरू ऐसा कीजिए जैसे सूप सुभाय।

   सार—सार को गाही ले, थोथा देय उड़ाय।।

   राम नाम की लूट है, लूट सके तो लूट।

   अंत समय पछताएगा, जब प्राण जाएगा छूट।।

   कबीरा खड़ा बाजार में, सब की मांगे खैर।

   न किसी से दोस्ती, न किसी से वैर।।

   a. सच्चे गुरू को किसके समान बताया गया है?   2

   b. थोथा देय उड़ाय से क्या आशय है?   1

   c. सूप शब्द का अर्थ लिखिए।   1

   d. कविता में किस कवि का नाम है।   1

   e. अंत समय में पछताने का क्या कारण है?   2

खंड – 2

3. निम्नलिखित शब्दों में मूल शब्द व उपसर्ग छांटिए –   2

   a. सुप्रसिद्ध   b. निर्जीव   c. अलंकरण   d. हेडमास्टर

4. प्रत्यय की परिभाषा लिखते हुए निम्नलिखित शब्दो में प्रत्यय जोड़कर नया शब्द बनाइयें –   2

   a. लोहा + आर   b. धर्म + इक   c. अप + मान + इत   d. लघु + तम

5. समास किसे कहते है? निम्न शब्दों का समास—विग्रह कीजिए –

   a. यथाशक्ति   b. आमरण

6. वाक्य किसे कहते है, अर्थ के आधार पर वाक्यों के नाम लिखिए।   4

7. अलंकार किसे कहते है, ये कितने प्रकार के होते है। अनुप्रास अलंकार की उदाहरण सहित परिभाषा लिखिए।   4

खंड – 3

8. गद्यांश को पढ़कर नीचे लिखे प्रश्नों के उतर दीजिए –

   लेकिन गधे का एक छोटा भाई और भी है जो उससे कम ही गधा है और वह है बैल। जिस अर्थ में हम गधे का प्रयोग करते हैं, कुछ उसी से मिलते—जुलते अर्थ में हम गधे का प्रयोग करते हैं, कुछ लोग बैल को शायद बेवकूफों में सर्वश्रेष्ठ कहेंगे, मगर हमारा विचार ऐसा नहीं है। बैल कभी—कभी मारता भी है। कभी—कभी अड़ियल बैल भी देखने में आता है, और भी कई रीतियों से अपना असंतोष प्रकट करता है: अतएव उसक स्थान गधे से नीचा है।

a. बैल को गधे का छोटा भाई क्यों कहा गया है? 2

b. 'बाछिया का ताऊ' मुहावरे का अर्थ लिखिए। 1

c. बैल बेवकूफों में श्रेष्ठ कैसे है समझाइयें। 1

9. निम्नलिखित किन्हीं दो प्रश्नों के उतर दीजिए – (80–120 शब्द) 8

a. आप बालिका मैना के चरित्र की कौन – कौनसी विशेषताए अपनाना चाहेंगे?

b. आप के अनुसार वेश–भूषा के प्रति लोगों की सोच में आज क्या परिवर्तन आ रहा है?

c. अपनी यात्रा के दौरान लेखक को किन कठिनाईयों का सामना करना पड़ा?

10. पद्यांश को पढ़कर नीचे लिखे प्रश्नों के उतर दीजिए –

मानुष हो तो वही रसखानि बसौं ब्रज गोकुल गाँव के ग्वारन।

जो पसु हो तो कहा बस मेरो चरौ नित नंद की धेनु मझारन।।

पाहन हो तो वही गिरी को जो कियो हरिछत्र पुरंदर धारन।

जो खग हो तो बसेरो करौं, मिलि कालिंदी कूल कदंब की जरन।।

a. कृष्ण का सामीप्य पाने के लिए कवि क्या कामना करता है? 2

b. कवि पक्षी बनकर कहाँ वास करना चाहता है? 1

c. सवैये पद का मूल भाव क्या है? 2

11. निम्नलिखित किन्हीं दो प्रश्नों के उतर दीजिए – 8

a. कबीर ने सच्चे प्रेमी की क्या कसौटी बताई है।

b. कवयित्री ललद्यद का 'घर जाने की चाह' से क्या तात्पर्य है?

c. कोयल की कूक सुनकर कवि की क्या प्रतिक्रिया हुई?

12. किन्हीं एक प्रश्न के उतर दीजिए – 4

a. लेखिका ने अपनी नानी को कभी देखा भी नहीं फिर भी वे उनके व्यक्तित्व से क्यों प्रभावित थी?

b. लेखिका मृदुला गर्ग की माँ के व्यक्तित्व की विशेषताएं लिखिए।

13. निम्न में से किसी एक विषय पर निबंध लिखिए – (250 से 300 शब्द) 10

a. आतंकवाद और समूचा विश्व – प्रस्तावना, भारत मे आतंकवाद, आतंकवाद और विश्व, रोकने के उपाय, उपसंहार

अथवा

बेटी बचाओं – बेटी पढ़ाओं – प्रस्तावना, बेटी की भूमिका, वर्तमान स्थिति, बेटी और शिक्षा , उपसंहार

अथवा

स्वच्छ भारत मिशन –

14. बीमारी के कारण परीक्षा न दे सकने पर प्रधानाचार्य को चिकित्सा अवकाश के लिए एक प्रार्थना–पत्र लिखिए। 5

अथवा

अपने प्रधानाचार्य को छात्रवृति के लिए एक आवेदन पत्र लिखिए।

15. किसी एक विषय पर 'संवाद लेखन' लिखिए

बहुत दिनों के बाद अचानक मिले दो मित्रों के मध्य हुए संवाद को लिखिए।(उदा.– राम और श्याम) 50 शब्द 5

अथवा

चिकित्सक और रोगी के मध्य का संवाद लिखिए। (उदा.– रोगी और डॉक्टर)

SUMMATIVE ASSESMENT – 1 (2019-20)

Mathematics
Class IX (SA-I)

Time: 3 to 3½ hours   M.M.: 80

General Instructions

i)   All questions are compulsory.

ii)   The questions paper consists of 34 questions divided into four sections A, B, C and D. Section A comprises of 10 questions of 1 mark each, Section B comprises of 8 questions of 2 marks each section C comprises of 10 questions of 3 marks each and section D comprises of 6 questions of 4 marks each.

iii)   Question numbers 1 to 10 in section A are multiple choice questions where you are to select one correct option out of the given four.

iv)   There is no overall choice. However, internal choice has been provided in 1 question of two marks, 3 questions of three marks each and 2 questions of four marks each. You have to attempt only one of the alternatives in all such questions.

v)   Use of calculators is not permitted.

Section-A

Question numbers 1 to 10 carry 1 mark each.

1.   Decimal expansion of a rational number cannot be

   (a)   non-terminating   (B)   non-terminating and recurring

   (C)   terminating   (D)   non-terminating and non-recurring

2.   One of the factors of $(9x^2-1) - (1+3x)^2$ is

   (A) $3+x$ (B) $3-x$ (C) $3x-1$ (D) $3x+1$

3.   Which of the following needs a proof?

   (A)   Theorem   (B)   Axiom   (C)   Definition   (D)   Postulate

4.   An exterior angle of a triangle is 110° and the two interior opposite angles are equal. Each of these angles is

   (A)   70°   (B)   55°   (C)   35°   (D)   110°

5.   In $\triangle PQR$, if $\angle R > \angle Q$, then

   (A)   QR>PR   (B)   PQ>PR   (C)   PQ<PR   (D)   QR<PR

6.   Two sides of a triangle are of lengths 7 cm and 3.5 cm. The length of the third side of the triangle cannot be

   (A)   3.6 cm   (B)   4.1 cm   (C)   3.4 cm   (D)   3.8 cm.

2

7. A rational number between 2 and 3 is

   (A) 2.010010001...   (B) $\sqrt{6}$ (C) 5/2   (D) $4 - \sqrt{2}$

8. The coefficient of x^2 in $(2x^2-5)(4+3x^2)$ is

   (A) 2   (B) 3   (C) 8   (D) -7

9. In triangles ABC and DEF, $\angle A = \angle D$, $\angle B = \angle E$ and AB=EF, then are the two triangles congruent? If yes, by which congruency criterion?

   (A) Yes, by AAS   (B) No   (C) Yes, by ASA   (D) Yes, by RHS

10. Two lines are respectively perpendicular to two parallel lines. Then these lines to each other are

   (A) Perpendicular   (B) Parallel

   (C) Intersecting   (D) incllined at some acute angle

SECTION - B

Question numbers 11 to 18 carry 2 marks each.

11. x is an irrational number. What can you say about the number x^2? Support your answer with examples.

12. Let OA, OB, OC and OD be the rays in the anticlock wise direction starting from OA, such that $\angle AOB = \angle COD = 100°$, $\angle BOC = 82°$ and $\angle AOD = 78°$. Is it true that AOC and BOD are straight lines? Justify your answer.

   OR

   In $\triangle PQR$, $\angle P=70°$, $\angle R=30°$. Which side of this triangle is the longest? Give reasons for your answer.

13. In Fig. 2, it is given that $\angle 1=\angle 4$ and $\angle 3=\angle 2$. By which Euclid's axiom, it can be shown that if $\angle 2 = \angle 4$ then $\angle 1 = \angle 3$.
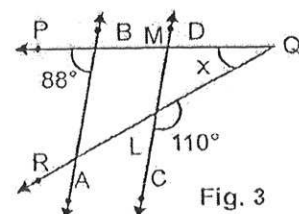

Fig. 2
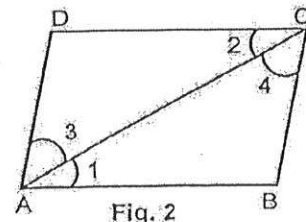
14. Is $\left(\dfrac{8}{15}\right)^3 - \left(\dfrac{1}{3}\right)^3 - \left(\dfrac{1}{5}\right)^3 = \dfrac{8}{75}$?

   How will you justify your answer, without actually calculating the cubes?

15. Evaluate $\left(\dfrac{-1}{27}\right)^{\frac{-2}{3}}$.

16. In Fig. 3, if AB||CD then find the measure of x.

Fig. 3

17. In an isosceles triangle, prove that the altitude from the vertex bisects the base.

18. Write down the co-ordinates of the points A, B, C and D as shown in Fig. 4.
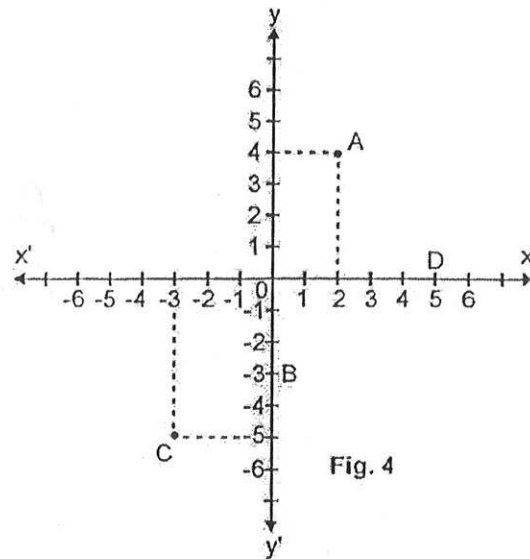

Fig. 4

SECTION C

Question numbers 19 to 28 carry 3 marks each.

19. Simplify the following by rationalising the denominators

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

OR

If $\dfrac{\sqrt{5}+\sqrt{3}}{\sqrt{5}-\sqrt{3}} = a-\sqrt{15}b$, find the values of a and b.

20. If $a=9-4\sqrt{5}$, find the value of $a-\dfrac{1}{a}$.

OR

If $x = 3+2\sqrt{2}$, find the value of $x^2 + \dfrac{1}{x^2}$

21. Represent $\sqrt{3.5}$ on the number line.

22. If $(x-3)$ and $x-\dfrac{1}{3}$ are both factors of ax^2+5x+b, show that $a=b$.

23. Find the value of $x^3+y^3+15xy-125$ when $x+y=5$.

OR
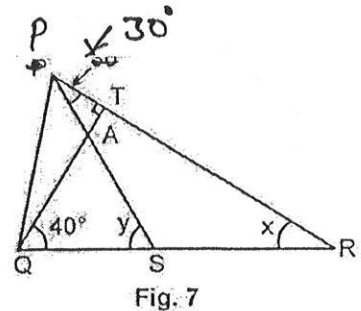
If $a+b+c=6$, find the value of $(2-a)^3+(2-b)^3+(2-c)^3-3(2-a)(2-b)(2-c)$

4

24. In Fig. 5. ABC is an equilateral triangle with coordinates of B and C as B(-3, 0) and C (3, 0) Find the coordinates of the vertex A.
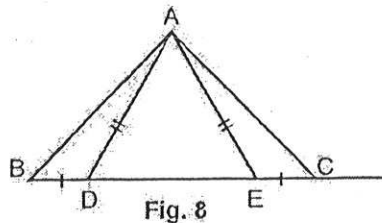

Fig. 5
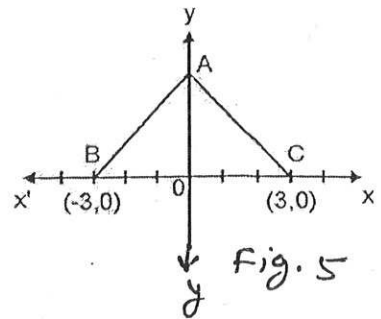
Q: 25 ABCD is rhombus and P, Q, R, S are the midpoint of the sides AB, BC, CD and DA respectively. Show that the quadrilateral PQRS is a rectangle.

26. In Fig. 7, QT ⊥ PR, ∠TQR=40° and ∠SPR=30°. Find the values of x and y.

Fig. 7

27. In Fig. 8, D and E are points on the base BC of a △ABC such that BD=CE and AD=AE. Prove that △ABE ≅ △ACD.

Fig. 8

28. Find the area of a triangle, two sides of which are 18 cm and 10 cm and the perimeter is 42 cm.

SECTION D

Question numbers 29 to 34 carry 4 marks each.

29. Let p and q be 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 2p+q=6, find the value of a.
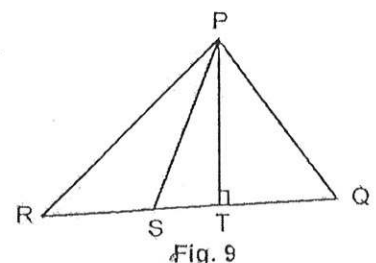
OR

Without actual division prove that $x^4-5x^3+8x^2-10x+12$ is divisible by x^2-5x+6.

Q 30 Factorise :- $x^3 - 23x^2 - 142x - 120$

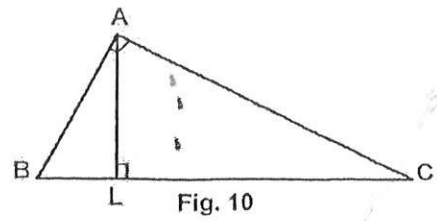31. Factorize $x^{12}-y^{12}$.

32. In Fig. 9, PS is bisector of ∠QPR; PT ⊥ RQ and ∠Q>∠R. Show that

$$\angle TPS = \frac{1}{2}(\angle Q - \angle R).$$

Fig. 9

5
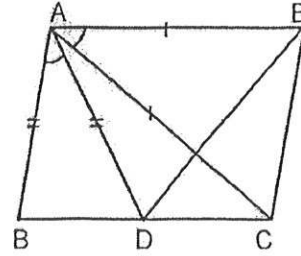
OR

In △ABC, right angled at A, (Fig. 10),
AL is drawn perpendicular to BC.
Prove that ∠BAL = ∠ACB.

Fig. 10

33. In Fig. 11, AB=AD, AC=AE and
∠BAD = ∠CAE. Prove that
BC = DE.

Q: 34 In figure 6.28 find the values of x and y and then show that AB II CD.
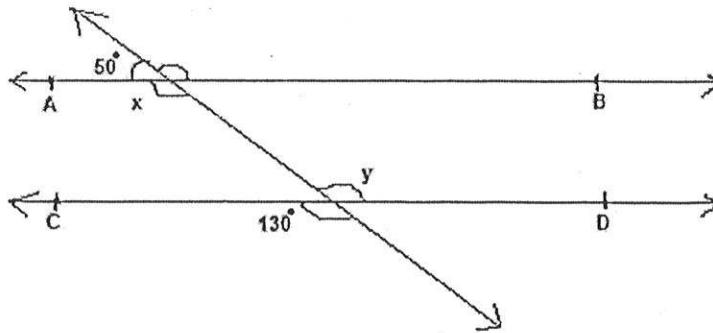

Fig. 6.28

SUMMATIVE ASSESMENT -1 (2019-20)

CLASS-IX   SUBJECT- Science   MM: 80   TIME: 3 Hours

A : MCQ-

Q: 1 Out of the following, an example of matter which can be termed as fluid is:

(a) carbon   (b) sulphur   (c) oxygen   (d) phosphorus

Q: 2 The latent heat of fusion of ice is:

(a) $33.4 \times 10^5 \frac{J}{kg}$ (b)$22.5 \times 10^5 \frac{J}{kg}$ (c)$33.4 \times 10^4 \frac{J}{kg}$ (d)$2.25 \times 10^4 \frac{J}{kg}$

Q: 3 The elements which normally exist in the liquid state are:

(a) bromine and iodine   (b) mercury and chlorine

(c) iodine and mercury   (d) bromine and mercury

Q: 4 Pusa Lerma is an improved variety of –

(a) Rice (b) Wheat   (c) Maize   (d) Soyabean

Q: 5 Intercellular connections in plant cells are called-

(a) Middle lamella   (b) Microfibrils   (c) Matrix   (d) Plasmodesmata

Q: 6 A water tanker filled up to two-thirds of its tank with water is running with a uniform speed. When the brakes are suddenly applied, the water in its tank would:

(a) Move backward   (b) move forward (c) rise upwards (d) remain unaffected

Q: 7 Which of the following effect cannot be produced by an unbalanced force acting on a body?

(a) change in speed of the body   (b) change in shape of the body

(c) change in direction of motion of the body   (D) change in state of rest of the body

B: Chemistry

Q: 1 State two characteristics of matter demonstrated by:

(a) Diffusion

(b) Brownian motion

Q: 2 Give two reasons to justify that:

(a) Water is a liquid at room temperature.

(b) An iron almirah is a solid.

Q: 3 What is the chemical name of dry ice?

Q: 4 Define the following terms:

   (a) Melting   (b) Boiling

Q: 5 Name three mixtures found in nature.

Q: 6 State three reasons why you think air is a mixture and water is a compound.

Q: 7 You are given a mixture of water, groundnut oil and common salt. How will you separate groundnut oil and common salt from it?

Q:8 (a) Why does a gas exert pressure?

   (b) Why does a gas fill a vessel completely?>

   (c) Why are gases so easily compressible whereas it is almost impossible to compress a solid or a liquid?

Q: 9 (a) What is evaporation? State the various factors which affect evaporation.

   (b) Why does evaporation cool a liquid?

Q: 10 With the help of a labelled diagram , describe the method of separating ammonium chloride from a mixture of ammonium chloride and common salt. Mention the difference in the properties of ammonium chloride and sodium chloride which has made this separation possible.

C: Physics

Q: 1 Explain why, it is easier to stop a tennis ball than a cricket ball moving with the same speed.

Q: 2 Name the scientist who gave the laws of motion.

Q: 3 Calculate the momentum of the following:

   (a) an elephant of mass 2000 kg moving at 5 m/s.

   (b) a bullet of mass 0.02 kg moving at 400 m/s.

Q: 4 Name the physical quantity whose unit is 'newton'.

Q: 5 The velocity of the body of a mass 10 kg increases from 4 m/s to 8 m/s when a force acts on it for 2 s.

   (a) What is the momentum before the force acts?

   (b) What is the momentum after the force acts?

   (c) What is the gain in the momentum per second?

   (d) What is the value of the force?

Q: 6 (a) Define the term 'force'.

    (b) State the various effects of force.

Q: 7 (a) State and explain Newton's second law of motion.

    (b) A 1000 kg vehicle moving with a speed of 20 m/s is brought to rest in a distance of 50 meters:

    (i) Find the acceleration.

    (ii) Calculate the unbalanced force acting on the vehicle.

D: Biology

Q: 1 What is organic farming? What are its advantages?

Q: 2 Name the components of cattle feed.

Q: 3 Name three pattern of cropping.

Q: 4 Who discovered cells and how?

Q: 5 What happens to an animal cell when it is placed in a very dilute external medium? Why?

Q:6 What factors may be responsible for losses of grains during storage?

Q: 7 What is exocytosis?

Q: 8 What is the difference between plasma membrane and cell wall? Give the functions of each one.

A. **Answer the following questions.**

1. What is shifting cultivators?   2
2. What were the sumptuary laws in France?   2
3. How did the spread of electricity help farmers in Palampur?   2
4. Describe the work of a farmer with 1 hectare of land.   2
5. What do you understand by people as a resource ?   2
6. Why are women employed in low paid work?   2
7. What is the role of health in human capital formation?   2
8. Name the group of Islands lying in the Arabian sea.   2
9. Which Island group of India lies to its south-east?   2
10. What are tectonic plates?   2
11. What is the bhabar?   2
12. Which is the largest river basin in India?   2
13. State some economic benefits of rivers and lakes.   2
14. Explain Mahatma Gandhi condemned the Pentangular tournament.   3
15. In which field do you think India can build the maximum employment opportunity? 3
16. Why 82° 30 E has been selected as the Standard Meridian of India?   3
17. Distinguish between Bhangar and Khadar.   4
18. Explain about Nomadic and pastoralist communities .   4
19. What are the similarities between colonial management of the forest in Bihar and in Java? 4
20. Why did M. K. Gandhi dream of clothing the nation in khadi appeal only to some sections of Indians?   5
21. What does the sports curriculum of a nineteenth century girls school tell us about the behaviour considered proper for girls at that time?   5
22. How have advance in technology , especially television technology , affected the development of contemporary cricket?   5
23. What are the non farm production activities tasking place in your region? Make a short list. 5
24. Write a short note on The Indian Desert.   8

B. **Choose the right option from the given below A, B ,C & D.**   5

i. The highest peak in the Eastern Ghats is –

(a) Anai Mudi (b) Mahendragiri (c) Khasi (d) Kanchanjanga   ( )

ii. Which one of the following lakes is a salt water lake?

(a) Sambhar (b) Wular   (c)   Gobind Sagar (d) Dal   ( )

iii. Which one amongust the following rivers flows through a rift valley?

(a) Mahanandi (b) Krishna   (c) Tapi   (d) Tungabhadra   ( )

iv. The Tropic of Cancer does not pass through-

(a) Rajasthan (b) Orissa (c) Tripura (D) Chhatishgarh   ( )

v. My friend hails from a country which does not share land boundry with India.

(a) Bhutan (b) Bangladesh (c) Nepal (d) Tajakistan   ( )