

REVISION TEST 2018-19

Subject: English
Grade: X

Maximum Marks: 80
Time Allowed: 3 hours

Instructions:

- This paper has 4 pages
- This question paper consists of 3 sections.
 - Section A: Reading Comprehension 20 Marks
 - Section B: Writing Skills and Grammar 30 Marks
 - Section C: Literature and Long Reading Text 30 Marks
- Reading time of 15 minutes will be provided for this paper. The paper will commence after the reading time and continue for the duration mentioned above.
- All questions are compulsory. However, internal choice has been provided in some questions.
- The intended marks for questions or parts of questions are given in brackets [].
- All questions are to be attempted separately.

SECTION A - COMPREHENSION (20 MARKS)

1. **Read the following passage and answer the questions that follows** **[8]**

Sniffer dog Tucker uses his nose to help researchers find out why a killer whale population off the northwest coast of the United States is on the decline. He searches for whale faeces floating on the surface of the water, which are then collected for examination. He is one of the elite team of detection dogs used by scientists studying a number of species including right whales and killer whales.

Conservation canines are fast becoming indispensable tools for biologists according to Aimee Hurt, associate director and co-founder of Working Dogs for Conservation, based in Three Forks, Montana.

Over the last few years, so many new conservation dog projects have sprung up that Hurt can no longer keep track of them all. Her organization's dogs and their handlers are fully booked to assist field researchers into the next decade.

"Dogs have such a phenomenal sense of smell", explained Sam Wasser, director of the Center for Conservation biology at the University of Washington in Seattle. He has worked with scat-detection dogs since 1999. Scientists have been using Conservation Canines in their research since 1999. These dogs have enabled them to non-invasively access vast amount of genetic and physiological information which is used to tackle conservation problems around the world. Such information has proved vital for determining the causes and consequences of human disturbances on wildlife as well as the actions needed to mitigate such impacts.

The ideal detection dog is extremely energetic with an excessive play drive. These dogs will happily work all day long, motivated by the expectation of a ball game as a reward for sample detection. The obsessive, high energy personalities of detection dogs also make them difficult to maintain as pets. As a result, they frequently find themselves abandoned to animal shelters, facing euthanasia. The programme rescues these dogs and offers them a satisfying career in conservation research.

Complete the following sentences based on your reading of the passage.

(8)

- (a) According to the text there are a few _____ detection dogs like Tucker.
- (b) Tucker sniffs for whale _____
- (c) The dogs are special because they assist in genetic research without _____
- (d) The ideal detection dog _____
- (e) The dogs expect _____ as a reward of their hard work.
- (f) _____ of these dogs make it difficult to keep them as pets.
- (g) These dogs find careers in _____
- (h) The word 'euthanasia' means _____

2. Read the following passage carefully and answer the questions that follow

[12]

In my boyhood, the teacher never appeared in public without the cane in hand. I used to think that one's' Guru was born clutching a cane in his right hand while the left held a pinch of Snuff between the thumb and forefinger. He took a deep inhalation before proceeding to flick the cane on portion of myself that was available for the purpose. I really had no idea what I was expected to do or not to do to avoid it. I could never imagine that a simple error of calculation in addition, subtraction or multiplication (I never knew which) could drive anyone hysterical.

I notice nowadays a little girl at home always playing the school game in a corner of the verandah, but never without a flat wooden foot-rule in hand, which she flourishes menacingly at the pupils assembled in her phantasmagoric classroom. On investigation I found that the cane, being discredited, has yielded place to the foot ruler especially in the convent schools. The foot ruler has the advantage over the primitive birch of mauling without marking which could count as an achievement in torturing technique and it also possesses the innocent appearance of a non-violent pedagogic equipment.

The modern educator, naturally, first to adapt his ways to modern circumstances has put away obsolete weapons. The flat scale is employed only at the primary stage, just as a threat: at Higher levels of education, torments to young soul are devised in subtler forms progressively. Admissions, text books and examinations are the triple weapons in the hand of an educator today.

In June, every parent and child go through a purgatory of waiting at the doors of every college which in a grand musical chair manner keeps every applicant running frantically about. I recently met a hopeful father who had just written a cheque of 10000 rupees for two children in first year BE in a certain college. He is a businessman; fully aware of the debit and credit value of his action, and must have undertaken the financial sacrifice after due consideration. Those that cannot afford it have to queue up in the corridors of colleges, hunt and gather recommendations, plead, appeal, canvass and lose weight until they find(or do not find) their names in the list of admissions.

At the next stage the students will once again queue up, beg, beat about, and appeal for text books this time (especially if it happens to be ' Nationalised textbook' which may not be

available until the young man is ready to leave the college). Finally the examination, (in a civilized world the examination system should have no place.) It is culmination of all sadistic impulses.

Give the meaning of each of the following words as used in the passage. One word answers for (2) short phrase will be accepted. (Any two.)

- (a) hysterical
- (b) menacingly
- (c) devised.

Answer the following questions briefly in your own words. (10)

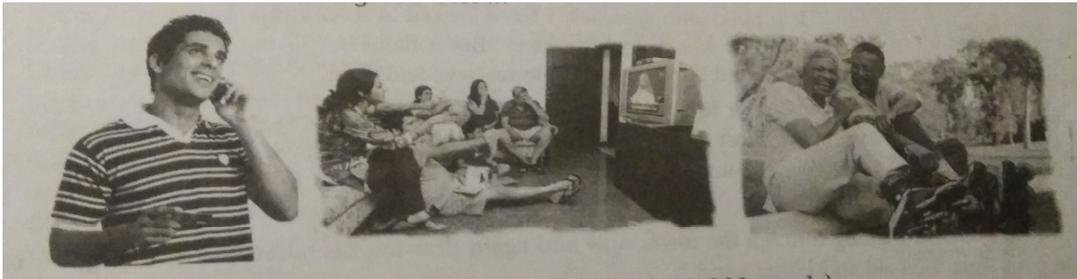
- (a) How was the narrator punished by his teacher in his boyhood? What could he never understand?
- (b) What weapon of punishment is in vogue in convent schools? What is its advantage?
- (c) What are the subtle weapons of torment at higher levels of education?
- (d) What games does the narrator compare the parents seeking admissions for their ward in colleges to?
- (e) What are 'sadistic impulses' in the context of examination system, according to the narrator?

SECTION B: WRITING AND GRAMMAR (30 Marks)

3. Rakesh witnessed an accident in the garden where a child got hurt badly. The other children playing around him panicked and didn't know what to do. Rakesh felt that there is a strong need for children to understand the significance of providing first aid. Write a letter to the Editor in 100-200 words about the importance to first aid. 8

OR

You are Sunil Verma. Based on your reading of Unit 3, 'Science' together with your own ideas,



write an article in about 100-120 words on the topic 'Science and Human Happiness'. You may consider the visual stimuli given above.

4. **Write a short story, in about 200-250 words, with the set of the cues given below. Give a suitable title to the story. 10**

It had been raining for the entire day. The city was slowly getting flooded. Raja was worried. His parents were still stuck at office. Suddenly there was a crash.....

5. **Complete the following passages by filling in the blanks. (4)**

The constitution of India came (a)..... force on January 26th, 1950. (b) that time it (c) not contain any specific provision dealing directly with the environment related issues, legislations (d) provisions in India. In 1976, (e) the leadership of

Prime Minister Mrs. Indira Gandhi, the very first provision (f) the protection of environment was incorporated (g) constitution through 42nd amendment. The objective of such legal provision (h) to improve and conserve the ecological and environmental assets of India.

6. The following passage has not been edited. There is an error in each line against which a blank is given. Write the incorrect word and the correction in your answer sheet against the correct blank number. The first has been done for you as an example.

		Incorrect	Correct
Amongst young peoples, motorcyclists and		peoples	people
scooterists are the great cause of danger	a.		
They often try to show of by driving	b.		
at break-neck speed; they risk there own	c.		
life as well as that of other.	d.		

7. **Look at the words and phrases below. Rearrange them to form meaningful sentences to make readable passage.** [4]

- (a) in / we / of / science / the age / live
 (b) and space / conquered / air /time / we have / help of / with the / scientific inventions
 (c) inventions / armed / which are / has / miracles / science / man with / no less than
 (d) deadly weapons / but / science has / of warfare / also given / man

SECTION C (LITERATURE) (30 MARKS)

8. (a) **Choose any one of the following extracts and answer the questions that follow.** [4]

Not marble, nor the gilded monuments
Of princes, shall outlive this powerful rhyme;

- i. Explain 'gilded monuments'
 ii. What is more powerful than 'marble' and 'gilded monuments'? Why?
 iii. Name a poetic device used in the above lines.
 iv. What will happen to 'marble' and 'gilded monuments'?
- (b) But when the evening of his life was drawing in, he left his old ways and suddenly took a new turn.
- i. Who is 'he' in the above lines?
 ii. What does the phrase 'evening of his life' refer to?
 iii. What do you understand by the phrase 'he left his old ways'?
 iv. Why did his life take a new turn?

9. Answer the following questions in 30-40 words each.(any 4) [8]

- (a) Why was Nicola's tone 'put out' even when the narrator was eager to help them?
 (b) Why is the frog's joy both sweet and bitter?

- (c) How did Miss Mebbin manage to get her cottage?
- (d) How did the sailors reach the land of mist and snow?
- (e) What did Ali do to ensure that he would get his letter even after his death?

10. Answer the following question in about 150 words. [8]

- (a) The Author, Dhumketu carefully builds up an atmosphere of loneliness and grief in the story "The letter". Bring out this element with instances from the text.

OR

- (b) How is hypocrisy of the two sisters brought out in the play, 'The Dear Departed'?

11. Answer the following question in 150-200 words. [10]

- (a) Helen had a great strength and courage which helped her come out of her dark and silent world." Justify.

OR

- (b) Write a character sketch of Anne Frank.

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सामान्य निर्देश-

- कृपया जाँच लें कि इस प्रश्न-पत्र में मुद्रित पृष्ठ 06 हैं ।
- कृपया जाँच कर लें कि इस प्रश्न-पत्र में 17 प्रश्न हैं ।
- कृपया प्रश्न का उत्तर लिखना शुरू करने से पहले, प्रश्न का क्रमांक अवश्य लिखिए ।
- इस प्रश्नपत्र को पढ़ने के लिए 15 मिनट का अतिरिक्त समय दिया गया है । इस अवधि के दौरान आप उत्तर-पुस्तिका पर कोई उत्तर नहीं लिखेंगे ।
- इस प्रश्नपत्र के चार खंड हैं- 'क', 'ख', 'ग' और 'घ' ।
- चारों खण्डों के प्रश्नों के उत्तर देना अनिवार्य है ।
- यथासंभव प्रत्येक खंड के उत्तर क्रमशः दीजिए ।

खंड- 'क'

1. निम्नलिखित गद्यांश को ध्यानपूर्वक पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए । (9)
- 'बेटी बचाओ, बेटी पढ़ाओ' नारे की जगह 'बेटी पढ़ाओ, बेटी बचाओ' नारा होता, तो अधिक लाभ हुआ होता । वास्तव में आज बेटी के जन्म की समस्या इसलिए पैदा हुई है क्योंकि समाज में संस्कारों की कमी है । लोभ, मोह और भय हमारे सिर पर चढ़कर बोल रहे हैं । जिन कारणों से बेटी को जन्म नहीं दिया जा रहा है, वे कारण हैं- दहेज का लोभ, बुढ़ापे में सेवा और बेटियों की सुरक्षा ।
- आप सोचिए कि सुसराल में दहेज की मीन-मेख कौन निकालता है ? पति या ससुर ? अनुभव बताते हैं कि अधिक कसूर सास का होता है । वह दिन-रात ताने-मेहने दे-देकर बहू का जीना हराम कर देती है । प्रश्न है कि इस निर्दयी सास को किसने जन्म दिया ? किसी की बेटी ही निर्मम सास बनी है, क्योंकि उसे ठीक से संस्कारित नहीं किया गया । अच्छी सास होने का बोध नहीं करवाया गया । अब बुढ़ापे में सेवा के भ्रम पर बात करते हैं । बूढ़ी सास और ससुर की सेवा में कौन है जो बात-बात पर मुँह फुलाता है, रूठने और मायके जाने के नाटक करता है ? क्या बेटा, बेटी या बहू ? सभी एक स्वर में उत्तर देंगे- बहू । मैं पूछता हूँ कि बेटी को सेवाभावी बहू बनने का संस्कार कौन दे रहा है ? कोई नहीं । इसलिए बेटी को पढ़ाने और संस्कारित करने की जरूरत है । यदि ऐसा हुआ तो हर सास-ससुर को भरोसा होगा कि बहू भी बेटी जैसे होगी । वह हमारी सेवा करेगी । अब तीसरी बात- समाज में सब गिद्ध निगाहें नारी को अकेला देखते ही उस पर झपट पड़ती हैं । पुरुष को इतना उदंड, कामुक और निर्लज्ज किसने बनाया ? लड़का माँ की गोद में होता है । उसे विनम्र और सभ्य बनाने का संस्कार अपने दूध के साथ उसी को देना होता है । उसी के संस्कार से पुत्र सभ्य और

शालीन बनते हैं | इसके लिए भी बेटियों को ही प्रशिक्षित और संस्कारित करने की जरूरत है | अतः नारा बदलें- 'बेटी पढ़ाओ, बेटी बचाओ !' बेटी सही संस्कारित होगी तो कन्या-भ्रूण की हत्या का विचार ही मन में नहीं लाया जा सकेगा |

- (क) दहेज की समस्या में प्रमुख भूमिका किसकी होती है ? उसका समाधान क्या है ? 2
(ख) बूढ़ों की सेवा में कौन जी चुराता है और क्यों ? 2
(ग) स्त्रियाँ समाज में क्यों असुरक्षित हैं ? उसका मूल कारण क्या है ? 2
(घ) बेटी को पढ़ाना उसे बचाने से अधिक महत्त्वपूर्ण क्यों है ? 2
(ङ) 'बेटी बचाओ, बेटी पढ़ाओ !' इस नारे के बारे में अपने विचार लिखिए | 1

2. निम्नलिखित काव्यांश को ध्यानपूर्वक पढ़कर पूछे गए प्रश्नों के उत्तर दीजिए | (6)

नाम अलग हैं देश-देश के, पर वसुंधरा एक है,
फल-फूलों के रूप अलग, पर भूमि उर्वरा एक है |
धरा बाँटकर हृदय न बाँटो, दूर रहो संहार से ||
कभी न सोचो तुम अनाथ, एकाकी या निष्प्राण रे !
बूँद-बूँद करती है मिलकर सागर का निर्माण रे !
लहर-लहर देती संदेश यह, दूर क्षितिज के पार से ||
धर्म वही है, जो करता है, मानव का उद्धार रे !
धर्म नहीं वह, जो कि डाल दे, दिल में एक दरार रे !
करो न दूषित आँगन मन का, नफ़रत की दीवार से ||
सीमाओं को लॉघ न कुचलो, स्वतंत्रता का शीष रे !
बमबारी की स्वरलिपि में मत लिखो शांति का गीत रे !
बँध न सकेगी लय गीतों की, ऐसे स्वर-विस्तार से ||
राजनीति में स्वार्थ न लाओ, भरो न विष संसार में,
पशुता भरकर संस्कृति में; मत भरो वासना प्यार में,
करो न कलुषित जन-जीवन तुम, रूप-प्रणय व्यापार से !!...

- (क) धर्म की क्या पहचान है ? स्पष्ट कीजिए | 2
(ख) लहरें मानव को कहाँ से और क्या संदेश देती हैं ? 2
(ग) पड़ोसी राष्ट्रों के साथ संबंध को लेकर कवि के क्या विचार हैं ? 2

खंड- 'ख'

3. शब्द पद कब बनता है ? उदाहरण देकर स्पष्ट कीजिए | 2

4. निर्देशानुसार वाक्य-रूपांतरण कीजिए | 3

- (क) डॉक्टर को आजकल अपने घर वालों से मिलने की भी फुर्सत नहीं है | (मिश्रित वाक्य में)
(ख) बरसात होते ही चारों ओर मेंढक टराने लगे | (संयुक्त वाक्य में)

(ग) जिन लोगों ने तोड़-फोड़ की थी, वे सब पकड़ लिए गए हैं। (सरल वाक्य में)

5. निर्देशानुसार उत्तर दीजिए। (4)
- (क) निम्नलिखित विग्रहों का समस्तपद बनाकर समास का नाम लिखिए। 2
- (i) कायर है जो पुरुष
(ii) रोग से मुक्त
- (ख) निम्नलिखित समस्तपदों का विग्रह करके समास का नाम लिखिए। 2
- (i) नवरत्न
(ii) चतुर्भुज
6. निम्नलिखित वाक्यों को शुद्ध रूप में लिखिए। 4
- (क) वह पागल हाथी हो गया है।
(ख) साहित्य और जीवन का घोर संबंध है।
(ग) दादा जी प्रातःकाल के समय टहलने जाते हैं।
(घ) कवींद्र ने अनेकों गीतों की धुन बनाई।
7. निम्नलिखित मुहावरों को वाक्यों में इस प्रकार प्रयोग कीजिए कि इनका अर्थ स्पष्ट हो जाए। 2
- (क) सिर पर कफ़न बाँधना
(ख) ज़हर के घूँट पीना

खंड- 'ग'

8. निम्नलिखित प्रश्नों के उत्तर दीजिए। (5)
- (क) तताँरा की तलवार के बारे में लोगों का क्या मत था ? 2
(ख) धर्मतल्ले के मोड़ पर आकर जुलूस क्यों टूट गया ? 2
(ग) 'लिटिल अंदमान' के विषय में निकोबरियों का क्या मत है ? 1
9. दो कबूतरों की वजह से लेखक को क्या परेशानी होने लगी ? उसकी पत्नी ने कबूतरों से परेशान होकर क्या किया ? 5

अथवा

'बड़े भाईसाहब' इस कहानी से आपको क्या प्रेरणा मिलती है ? उदाहरण के साथ स्पष्ट कीजिए।

10. निम्नलिखित प्रश्नों के उत्तर दीजिए। (5)
- (क) 'मेखलाकार पर्वत अपार' यहाँ पर 'मेखलाकार' का क्या अर्थ है ? कवि ने इस शब्द का प्रयोग क्यों किया है ? 2

(ख) 'सच्चे मन में राम बसते हैं' इस पंक्ति का आशय 'दोहे' पाठ के संदर्भानुसार स्पष्ट कीजिए । 2

(ग) मीरा कुसुंबी साड़ी क्यों पहनना चाहती हैं ? 1

11. 'मनुष्यता' इस कविता के माध्यम से कवि ने हमें क्या संदेश दिया है ? स्पष्ट कीजिए । 5

अथवा

संसार में सुखी व्यक्ति कौन है और दुःखी कौन है ? यहाँ सोना और जागना किसके प्रतीक हैं ? इसका प्रयोग यहाँ क्यों किया गया है ? स्पष्ट कीजिए ।

12. 'सपनों के-से दिन' पाठ के आधार पर बचपन की मस्ती का वर्णन कीजिए । 5

अथवा

वर्तमान समाज में हरिहर जैसे वृद्ध व्यक्तियों के लिए युवा पीढ़ी का क्या कर्तव्य है ? अपने शब्दों में स्पष्ट कीजिए ।

खंड- 'घ'

13. निम्नलिखित में से किसी एक विषय पर 80-100 शब्दों में अनुच्छेद लिखिए । 5

(क) साक्षरता : उन्नति का मार्ग

- शिक्षा का महत्त्व
- विकास का साधन
- सर्वशिक्षा अभियान

(ख) 'जहाँ चाह वहाँ राह'

- सूक्ति का तात्पर्य
- इच्छा शक्ति का महत्त्व
- परिणाम

(ग) भारत : शांति का उपासक

- 'वसुधैवकुटुंबकम्' की सनातन विचारधारा
- सत्य और अहिंसा से समस्याओं का समाधान
- विश्वकल्याण की भावना

14. दूरदर्शन पर दिखाए जाने वाले कार्यक्रमों की कमियाँ बताते हुए अपने पसंदीदा चैनल के प्रबंधक को एक पत्र लिखिए । साथ-ही-साथ जीवन-मूल्यों की प्रेरणा देने वाले कार्यक्रमों को दिखाए जाने के लिए आग्रह भी कीजिए । 5

अथवा

अपने नजदीकी किसी भी बैंक में अपना बचत खाता खुलवाने के लिए उसके प्रबंधक को एक पत्र लिखिए ।

15. अगले रविवार को आपके मोहल्ले में रक्तदान का एक शिविर आयोजित होने वाला है | इसके बारे में सर्वसाधारण को सूचित करने के लिए नगरसेवक की ओर से 25-30 शब्दों में एक सूचना लिखिए | 5

अथवा

‘अटल छात्रवृत्ति’ के लिए अपने विद्यालय में आयोजित होने वाली काव्य-प्रतियोगिता के बारे में सबको सूचित करने के लिए 25-30 शब्दों में एक सूचना लिखिए |

16. बढ़ती हुई महँगाई के मुद्दे पर दो महिलाओं के बीच हुए संवाद को लगभग 50 शब्दों में लिखिए | 5

अथवा

खाद्य-पदार्थों में होने वाली मिलावट के बारे में अपने मित्र के साथ होने वाले आपके संवाद को लगभग 50 शब्दों में लिखिए |

17. ‘गणेश बाल मित्र-मंडल’ की ओर से बनाए गए दीयों और मोमबत्तियों को बेचने के लिए 25-50 शब्दों का एक विज्ञापन तैयार कीजिए | 5

अथवा

गर्मी की छुट्टियों में आप अपनी कॉलोनी के बच्चों को निःशुल्क चित्रकला सिखाना चाहते हैं | अतः कॉलोनी के सामुदायिक केंद्र द्वारा प्रकाशित साप्ताहिक पत्रिका के लिए 25-50 शब्दों का एक विज्ञापन तैयार कीजिए |

REVISION TEST

2018-19

Grade: X
Subject: Mathematics

Maximum Marks: 80
Time Allowed: 3 Hours

General instructions:

- This paper has three pages.
- This paper has 30 questions divided into four sections A, B, C and D.
- Reading time of 15 minutes will be provided for this paper. The paper will commence after the reading time and continue for the duration mentioned above.
- Section A comprises of 6 questions of 1 mark each; Section B comprises of 6 questions of 2 marks each; Section C comprises of 10 questions of 3 marks each and Section D comprises of 8 questions of 4 marks each.
- All questions are compulsory. An internal choice has been provided in four questions of 3 marks each and three questions of 4 marks each
- Use of calculator is not permitted.

Section A

1. Write the polynomial whose zeroes are -5 and 4 . (1)
2. If the pair of linear equations $5x + ky = -7$, $x + 2y = 3$ is inconsistent, then find the value of k . (1)
3. For a set of observations, mean is 75 and median is 60 . Find the mode. (1)
4. What is the nature of roots of the quadratic equation $2x^2 - \sqrt{5}x + 1 = 0$? (1)
5. Find the value of $\sin 38^\circ - \cos 52^\circ$. (1)
6. Find the length of the tangent drawn from a point P to a circle with centre O and radius 7 cm. (1)
Given $OP = 25$ cm.

Section B

7. Find the HCF of 336 and 54 using Euclid's division lemma. (2)
8. Find roots of: $4x^2 - 4a^2x + (a^4 - b^4) = 0$. (2)
9. $ABCD$ is a trapezium such that $AB \parallel DC$. If $\triangle AED$ is similar to $\triangle BEC$, prove that $AD = BC$. (2)
10. If $\tan A = \frac{5}{12}$, then find the value of $(\sin A + \cos A)\sec A$. (2)
11. Prove that the tangents drawn at the ends of a diameter of a circle are parallel. (2)
12. If α and β are the zeroes of $5x^2 - 7x + 1 = 0$. Find the value of $\frac{1}{\alpha} + \frac{1}{\beta}$. (2)

Section C

13. Prove that $\sqrt{5}$ is irrational. (3)
14. Find value/s of k , for which the equation $4x^2 - 2(k+1)x + (k+1) = 0$ has real roots. (3)
15. If I had walked 1 km/hr faster, I would have taken 10 minutes less to walk 2 km. Find the rate at which I had walked. (3)

OR

- Find two integers whose sum is 12 and the sum of their squares is 74 .
16. P and Q are points on the sides CA and CB respectively of a $\triangle ABC$ right angled at C . Prove that $AQ^2 + BP^2 = AB^2 + PQ^2$ (3)

OR

- Prove: If areas of two similar triangles are equal, then they are congruent.
17. Evaluate: $\frac{5\cos^2 60 + 3\sec^2 30 - \tan^2 45}{\sin^2 30 + \cos^2 30}$ (3)

18. Prove that: $\frac{\sin A}{1 + \cos A} + \frac{1 + \cos A}{\sin A} = 2 \operatorname{cosec} A$ (3)

OR

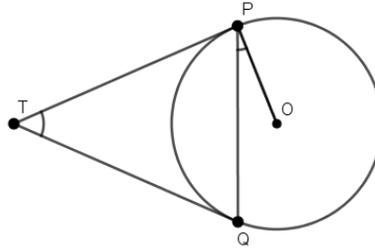
If $\sin A + \tan A = m$ and $\tan A - \sin A = n$, then show that $m^2 - n^2 = 4\sqrt{mn}$.

19. Two concentric circles are of radii 5 cm and 3 cm. Find the length of the chord of the larger circle which is tangent to the smaller circle. (3)

OR

Prove that the parallelogram circumscribing a circle is a rhombus.

20. Two tangents TP and TQ are drawn to a circle with centre O from an external point T. Prove that $\angle PTQ = 2 \angle OPQ$. (3)



21. Solve the following pair of linear equations by substitution method: (3)

$$0.2x + 0.3y = 1.3$$

$$0.4x + 0.5y = 2.3$$

22. Thirty women were examined in a hospital by a doctor and the number of heart beats per minute were recorded and summarised as follows. (3)

Find the mean number of heart beats per minute for the given group of women, choosing a suitable method.

Number of heart beats per minute	65-68	68-71	71-74	74-77	77-80	80-83	83-86
Number of women	2	4	3	8	7	4	2

Section D

23. Show that one and only one out of $n, n + 4, n + 8, n + 12$ and $n + 16$ is divisible by 5. (4)

OR

Use Euclid's division lemma to show that the cube of any positive integer is of the form $9m, 9m+1$ or $9m+8$.

24. If two zeroes of the polynomial $x^4 - 6x^3 - 26x^2 + 138x - 35$ are $(2 + \sqrt{3})$ and $(2 - \sqrt{3})$, then find the other two zeroes of the polynomial. (4)

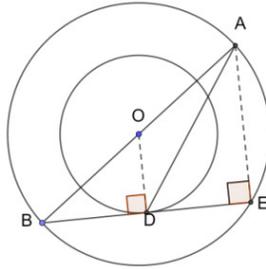
25. A boat covers 32 km upstream and 36 km downstream in 7 hours. Also, it covers 40 km upstream and 48 km downstream in 9 hours. Find the speed of the boat in still water and that of the stream. (4)

26. Sum of the areas of two squares is 468 m^2 . If the difference between their perimeters is 24 m, find the sides of the two squares. (4)

OR

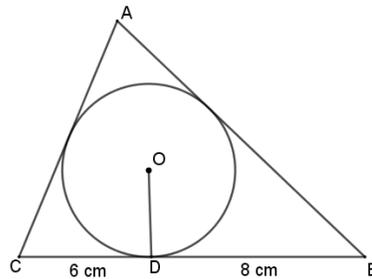
Find the values of k , if the points $A(k + 1, 2k)$, $B(3k, 2k + 3)$ and $C(5k - 1, 5k)$ are collinear.

27. The radii of two concentric circles are 13 cm and 8 cm. AB is a diameter of the bigger circle. BD is a tangent to the smaller circle, touching it at D. Find the length AD. (4)



28. Prove that: $\frac{1}{\operatorname{cosec}A - \cot A} - \frac{1}{\sin A} = \frac{1}{\sin A} - \frac{1}{\operatorname{cosec}A + \cot A}$ (4)

29. A triangle ABC is drawn to circumscribe a circle of radius 4 cm. If the lengths of BD and CD are 8 cm and 6 cm respectively. Find the sides AB and AC. (4)



OR

Prove that opposite sides of a quadrilateral circumscribing a circle subtend supplementary angles at the centre of the circle.

30. During a medical check-up of 35 students of a class, their weights were recorded as follows: (4)

Weight(in kg)	Number of Students
Less than 38	0
Less than 40	3
Less than 42	5
Less than 44	9
Less than 46	14
Less than 48	28
Less than 50	32
Less than 52	35

Draw a less than type ogive for the given data. Hence, obtain the median weight from the graph and verify the result by using the formula.

REVISION PAPER

2018-19

HELP-DESK

SUBJECT: SCIENCE

MARKS: 80

GRADE: X

TIME: 3 HOURS

General Instructions:

- The question paper comprises two Sections, A and B. You are to attempt both the sections.
- All questions are compulsory.
- All questions of Section A and Section B are to be attempted separately.
- There is an internal choice in three questions of three marks each, two questions of five marks each in Section A and in one question of two marks in Section B.
- Question numbers 1 and 2 in Section A are one mark questions. They are to be answered in one word or in one sentence.
- Question numbers 3 to 5 in Section A are two marks questions. These are to be answered in about 30 words each.
- Question numbers 6 to 15 in Section A are three marks questions. These are to be answered in about 50 words each.
- Question numbers 16 to 21 in Section A are five marks questions. These are to be answered in about 70 words each.
- Question numbers 22 to 27 in Section B are based on practical skills. Each question is a two marks question. These are to be answered in brief.

1. Write the energy conversion that takes place in a hydropower plant. [1]
2. What is the shape of the magnetic field lines around a straight current carrying conductor? [1]
3. A non-metal X exists in two different forms Y & Z. Y is the hardest substance, whereas Z is a good conductor of electricity. Identify Y & Z. [2]
4. Name a hormone secreted by pancreas and thyroid. [2]
5. Explain redox reaction. [2]
6. Show how would you join three resistors, each of resistance $9\ \Omega$ so that the equivalent resistance of the combination is (i) $13.5\ \Omega$ (ii) $6\ \Omega$? [3]

OR

- (a) Write Joule's law of heating. [2]
 - (b) Two lamps, one rated $100\ \text{W}; 220\ \text{V}$, and the other $60\ \text{W}; 220\ \text{V}$, are connected in parallel to electric mains supply. Find the current drawn by two bulbs from the line, if the supply voltage is $220\ \text{V}$. [1]
7. Name any three factors on which the magnitude of the magnetic field due to solenoid depends. [3]

OR

- Write the electron dot structure for sodium and chlorine atoms. How do these form a chemical bond? Name the type of bond so formed. Why does a compound so formed have a high melting point? [3]
8. Write three advantages of biogas. [3]
 9. What is the difference between displacement and double displacement reactions? Write equations for these reactions. [3]
 10. State two ways to prevent the rusting of iron. [3]
 11. Define alloys. Give two advantages of making alloys. [3]

12. (a) Which part acquires the information in the neuron? [1]
 (b) Through which part does the information travel? [1]
 (c) In what form does the information travel? [1]
13. Why is it necessary to separate oxygenated and deoxygenated blood in mammals and birds? [3]

OR

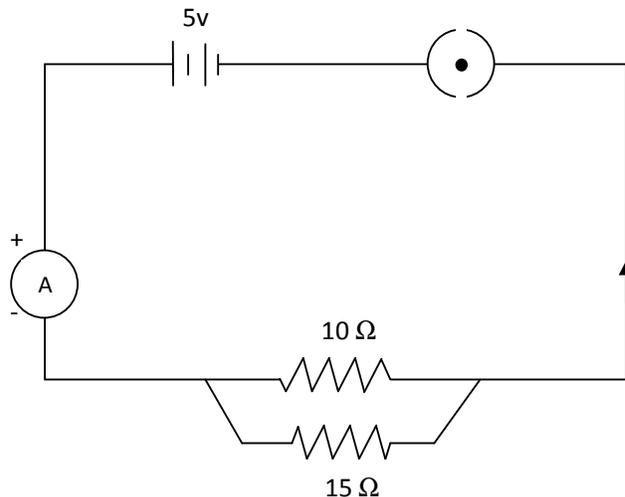
- Explain the mechanism of gaseous exchange between tissues and blood. [3]
14. How does a fuse wire protect electrical appliances? [3]
15. Name the chemical compounds formed on the surface of silver, copper, and iron metals when exposed for some time. [3]
16. (a) State Fleming's left hand rule. [1]
 (b) Write the principle of working of an electric motor. [1]
 (c) Explain the function of the following parts of an electric motor. [3]
 (i) Armature (ii) Brushes (iii) Split ring

OR

- (a) What is the role of brain in reflex action? [3]
 (b) What is the difference between sensory and motor nerves? [2]
17. (a) State the function of 'a fuse' in an electric circuit. How is it connected in the domestic circuit?[2]
 (b) An electric fuse of rating 3A is connected in a circuit in which an electric iron of power 1.5 kW is connected which operates at 220 V. what would happen? Explain. [3]
18. Name the three form in which energy from oceans is made available for use. What are OTEC power plants? How do they operate? [5]
19. List the advantages and the limitations of the solar cells. [5]

OR

Study the following circuit and answer the questions that follow.



- (a) State the type of combination of the two resistors in the circuit. [1]
 (b) How much current is flowing through (i) 10 Ω and (ii) 15 Ω resistor? [2]
 (c) What is the ammeter reading?[2]

20. Draw a well labelled diagram of Human Brain and label its parts. [5]

21. Differentiate between a bar magnet and a solenoid. [5]

SECTION- B

22. The values of current (I) flowing through a given resistor of resistance (R), for the corresponding values of potential difference (V) across the resistor are as given below:

V (volts)	0.5	1.0	1.5	2.0	2.5	3.0	4.0	5.0
I (ampere)	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1.0

Plot a graph between current (I) and potential difference (V) and determine the resistance (R) of the resistor. [2]

23. Two wires of the same metal have the same length, but cross-sections are in the ratio of 3:1. They are joined in series. The resistance of the thicker wire is 10 ohm. The total resistance of the combination will be: [2]

(a) 40 ohm (b) 40/3 ohm (c) 5/2 ohm (d) 100 ohm.

24. Why does colour of copper sulphate change, when an iron nail is dipped in it? [2]

25. What is a precipitate? [2]

26. Give any two properties of an acid. [2]

27. What do acids and bases have in common? [2]

OR

Write the steps involved in making a slide of an epidermal peel of a leaf? [2]

REVISION PAPER 2018-19

Subject: Social Science
Grade: X

Maximum Marks: 80
Time Allowed: 3 Hour

Instructions:

-
- The question paper has four sections: **A, B, C** and **D** with **28** questions in all.
- Reading time of 15 minutes will be provided for this paper. The paper will commence after the reading time and continue for the duration mentioned above.
- All questions are compulsory. Internal choice wherever provided is mentioned separately.
- Question numbers **1 to 7** are **one-mark** questions. These are to be answered in one word or in one sentence.
- Question numbers **8 to 18** are **three marks** questions. These are to be answered in about 80 words each.
- Question numbers **19 to 25** are **five marks** questions. These are to be answered in about 120 words each.
- Question number **26 and 27** are map based questions from History with 1 mark each. After completion, attach the map to your answer sheet.
- Question number **28** is map question of 3 marks from Geography. After completion, attach the map to your answer sheet.
- The intended marks for the questions are given in the brackets [].

Section: A (Very Short Answer Questions) [1 × 7 = 7 marks]

1. What was the major objective of the Vienna Congress of 1815? **OR**
Which is the most visible form of French control over Vietnam?
2. Who was the leader of the peasants in the Gudem Hills of Andhra Pradesh?
3. Define overlapping differences.
4. What is caste hierarchy?
5. What is river basin?
6. What is meant by GDP?
7. Give one special feature that distinguishes formal sector credit from informal sector credit.

Section: B (Short Answer Questions) [3 × 11 =33 marks]

8. Describe the process of unification of Germany. **OR**
Why did the French build roads and railway network in Vietnam?

9. Give three ill-effects of communalism in the society.
10. Define agriculture. Why has cultivation methods changed significantly over years?
11. Why was the growth of nationalism in the colonies linked to anti-colonial movement?
12. How is federal government better than a unitary government? Explain with examples of Belgium and Sri Lanka.
13. Explain the role of union list, state list and concurrent list with context to India.
14. What steps can be taken to control soil erosion in hilly areas?
15. State any three objectives of Rainwater harvesting.
16. Discuss three main impacts of globalisation on Indian agriculture.
17. Why do different people have different goals for development?
18. Give the meaning and functions of money.

Section: C (Long Answer Questions) [5 × 7 =35 marks]

19. Describe the process of unification of Italy. **OR**
What were the main reasons behind the US intervention in the Civil War of Vietnam?
20. Explain the differences that emerged between the congress and the Muslim league on Political issues.
21. How has Belgian government solved its ethnic problem?
22. Social division can take different forms in societies. Explain.
23. How can rainwater be harvested? Explain with any five points.
24. What is meant by sustainable economic development? State its main features.
25. Why is the tertiary sector becoming more important in India? Explain.

Section: D (004Dap) [5 × 1 =5 marks]

On the outline map of India, locate and label the following:

26. The place where the Indian National Congress held its session in September 1920
27. The place where the movement of the indigo planters took place
28. **Locate and label the following dams on the outline map of India:**
 - (a) Bhakra Nangal
 - (b) Tehri
 - (c) Hirakud