



SALWAN PUBLIC SCHOOL

Sector-15 (II), Gurugram

Holiday Home Work

Subject Assignment - (2018-19)

CLASS – X

English

Note: The following questions should be done in the Literature Notebooks.
Only handwritten. NO Printouts.

Chapter 1

- Q1. What was that thing that the writer could not forget all her life despite losing her vision and hearing power?
- Q2. Why does the writer say that ‘there’s no king who has no slave among his ancestors, and no slave who has had no king among his ancestors’?

Chapter 2

- Q3. Why could Helen not make her dog, Belle, a good friend of hers as Martha was despite her best efforts?
- Q4. What differences did Helen notice in the communication of her mother with her aunt, whenever it took place, and with what results?

Chapter 3

- Q5. What was the importance of ‘American Notes’ to both the writer and her parents?
- Q6. ‘Dr Alexander Graham Bell served as a beacon light to the parents of the writer and the writer herself’. Justify the remark.

Chapter 4

- Q7. How did the introduction of the concept of the word ‘water’ awaken the writer’s soul?
- Q8. Why did the writer for the first time in her life long for a new day to arrive?

Chapter 5

- Q9. Who would you credit for the restoration of the writer’s love for Nature, the teacher or the writer herself? Justify.

Chapter 6

- Q10. “Physical handicap, however severe it may be, cannot hold an inquisitive learner for long from acquiring the highest amount of excellence in any discipline of life”. In the light of this remark, give the academic progress of Helen.

Chapter 7

- Q11. Out of all the subjects taught to Helen, which one did she find to be the most uninteresting? How did the teacher teach this subject?

Chapter 8

- Q12. There couldn’t have been a better gift than a canary for Helen. Comment

Chapter 9

Q13. Write in about 120 words character sketch of Mr. William Endicott as a friend.

Chapter 10

Q14. What was the contribution of the big book called 'Our World' to the education of the writer?

Questions based on Characters:

Q15. Write in about 120 words character sketch of Mr. Anagnos of Perkins Institution for the Blind.

Q16. Write in about 120 words character sketch of Miss Sarah Fuller, Principal of the Horace Mann School.

Project Based Learning (PBL)

Depict development of the following characters on the basis of the inputs given below and your understanding of the text. You may use Illustrations / Web Chart / Graphic Organiser / Flow Chart.

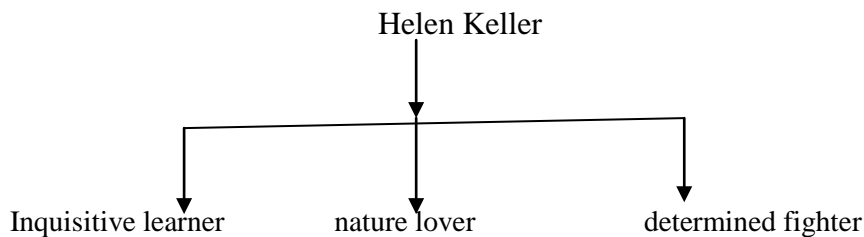
- Miss Anne Sullivan

As a friend, guide, philosopher.....

- Helen Keller

As an inquisitive learner, nature lover, determined fighter.....

For example:



हिन्दी

एक या दो पंक्तियों में उत्तर दीजिए-

- 1 कौंसिल द्वारा बुलाई गई सभा की क्या विशेषता थी?
- 2 सुभाष बाबू के जुलूस का भार किस पर था?
- 3 मीरा कृष्ण की लीलाओं का गुणगान कहाँ करना चाहती हैं?
- 4 कवि ने प्रकृति के किन उपमानों का प्रयोग श्रीकृष्ण के रूप सौंदर्य को प्रकट करने के लिए किया है?
- 5 कवि ने वन को तपेवन के समान क्यों बताया है?
- 6 कबीर के दोहों को साखी क्यों कहा जाता है?
- 8 कबीर के अनुसार 'जागा हुआ' कौन है?
- 9 कथावाचक बड़े भाई के सामने मौन क्यों रह जाता था?

लघूत्तरात्मक प्रश्न

- 1 अपने माता-पिता के उदाहरण द्वारा बड़े भाई साहब क्या स्पष्ट करने चाहते हैं?
- 2 बड़े भाई साहब का पतंग पकड़कर भागना क्या सिद्ध करता है?
- 3 ओपन लड़ाई किसे कहा गया है?
- 4 आज़ादी के संघर्ष में विद्यार्थियों की क्या भूमिका थी?
- 5 निंदक को कहाँ स्थान देना चाहिए?
- 6 कबीर किस-किसका घर जलाना चाहते थे और क्यों?
- 7 भाव-भक्ति को जागीर क्यों कहा गया है?
- 8 श्री कृष्ण ने अपने भक्तों की रक्षा किस प्रकार की थी? उदाहरण सहित लिखिए।

निबंधात्मक प्रश्न

- 1 बहुत से लोग घायल हुए ,बहुतों को लॉकअप में रखा गया, बहुत-सी स्त्रियाँ जेल गईं, फिर भी सि दिन को अपूर्व बताया गया है। आपके विचार में यह अपूर्व क्यों है? अपने शब्दों में लिखिए।
- 2 'जब से कानून भंग का काम शुरू हुआ है तब से आजतक इतनी बड़ी सभा ऐसे मैदान में नहीं की गई थी और यह सभा तो कहना चाहिए कि ओपन लड़ाई थी' यहाँ पर कौन से और किसके द्वारा लागू किए गए कानून को भंग करने की बात कही गई है? क्या कानून भंग करना उचित था? पाठ के संदर्भ में अपने विचार प्रकट कीजिए।
- 3 अपने आराध्य श्रीकृष्ण के दर्शन के लिए मीरा क्या-क्या उपाय करना चाहती है?
- 4 मीरा की भक्ति भावना पर प्रकाश डालिए।
- 5 ईश्वर भक्ति के लिए क्या अनिवार्य है? कवि ने बाह्य आडंबर किस प्रकार की भक्ति को कहा है?
- 6 समाज में रिश्तों की क्या अहमियत है? इस विषय पर अपने विचार प्रकट कीजिए।
- 7 हरिहर काका के गाँव में यदि मीडिया की पहुँच होती तो उनकी क्या स्थिति होती? अपने शब्दों में लिखिए।
- 8 बड़ा भाई छोटे भाई पर अपन दबदबा बनए रखने के लिए कौन-कौन-सी युक्तियाँ अपनाता है?

Sanskrit

प्रश्न 1 प्रकृति प्रत्यय संयोज्य विभज्य वा लिखत -

- 1 ज्ञानवृद्धः बालः अपि (पूज् + अनीयर) 2 गुरुः शब्दस्य अन्य अर्थः (आदर + अनीयर) भवति ।
3 अस्माभिः (ज्ञा + तव्यत्) यत् ज्ञानवृद्धः बालोऽपि पूजनीयः । 4 प्रातः (स्मरणीयः) आदिगुरुः शङ्कराचार्यः ।
5 क्व (स्थातव्यम्) न्याय्येपथि दृष्टादृष्ट लाभादये । 6 कर्मशीलः (योगी) कथ्यते ।
7 (धनवान्) नरः दानेन शोभते । 8 (बुद्धि + मतुप्) छात्राः ! संसारे अस्मिन् कः श्रेष्ठः ?
9 एतासु कथासु परहिताय सर्वस्वं (त्यज् + तव्यत्) इत्येव शिक्षितम् । 10 भीमः (बलवान्) आसीत् ।
11 (ज्ञानी) पुरुषः समदर्शी भवति । 12 मनुष्यः (सामाजिकः) प्राणी अस्ति ।
13 अस्माभिः जन्तुशालां गत्वा पशवः (द्रष्टव्यः) । 14 अभिमन्युः (साहस + इनि) बालकः आसीत् ।
15 अयं (दर्शन + ठक्) बालकः अस्ति । 16 समाजे (लोभ + इनि) जनः आदरं न लभते ।
17 (श्रीमान्) प्रधानाचार्या आज्ञां ददाति । 18 (सुखार्थिनः) कुतो विद्या ?
19 सरस्वती एका (साहित्य + ठक्) पत्रिका अस्ति । 20 सदैव पापकर्म (त्यज् + तव्यत्) ।

प्रश्न 2 सन्धिसन्धिच्छेदं वा कुरुत -

- 1 वधूत्सवः 2 हितोपदेश 3 पितृ + ऋणम् 4 परमेश्वरः 5 जन + एकता 6 देवेन्द्रः
7 प्र + उक्तम् 8 दक्षिणायन 9 वृद्धिमायाति 10 कः + अपि 11 नित्यं + एव 12 तथेति
13 महा + औदार्यम् 14 तण्डुलौदनम् 15 सा + एव 16 वैद्यः + उक्ति 17 गात्रेषु + अपि 18 देव + आलयः
19 बहुजन्मार्जितम् 20 न + अहम् 21 औदार्यादिसद्गुणाः 22 निधनैकनिष्ठम् 23 सत्त्वहितैषिता
24 नाभिवर्षति 25 देव + इन्द्रः 26 प्रश्न + उत्तरमाध्यमेन 27 तत्रैव 28 उपदेशस्य + एव 29 इह + एव
30 तस्याहम् 31 ह्येनम् 32 न + अन्तम् 33 आर्यावर्त + एकदेशे 34 प्र + उक्तम् 35 स्वागतम्
36 प्रमुञ्चोत्सवाः 37 एकैपक्षे 38 तेन + एव 39 एव + आहुः 40 कामक्रोध + उद्भवम् 41 सूर्योदयभूमिः
42 नूतनसंवत्सरोत्सवदिवस 43 सुप्त + उत्थितः 44 सूर्योत्तरायणे 45 वर्षर्तौ 46 ध्यानावस्थाम्

प्रश्न 3 क समयं दृष्ट्वा संस्कृत भाषायाम् लिखत -

- 1 रमा 3•00 वादने विद्यालयात् आगच्छति । 2 सा 3•15 वादने भोजनम् करोति ।
3 सा 4•30 वादने विश्रामं करोति । 4 सा 7•45 वादने दूरदर्शनं पश्यति ।
5 सः 4•45 वादने उतिष्ठति । 6 सा 6•15 वादने स्नानं करोति ।
7 सः 7•30 वादने प्रातराशम् करोति । 8 सा 8•00 वादने विद्यालयम् गच्छति ।
9 सः 2•45 वादने विद्यालयात् आगच्छति । 10 सा 5•15 वादने गृहस्य कार्यं करोति ।
11 सः 4•15 वादने भ्रमणाय गच्छति । 12 सा 9•30 वादने स्वपिति ।

ख घटिकांदृष्ट्वा कृषकस्यसोहनस्यदिनचर्याम् ज्ञायताम्

- 1 कृषकः सोहनः प्रातः 4•15 वादने उतिष्ठति । 2 सः 4•30 वादने पशुभ्यः घासम् यच्छति ।
3 सः 5•00 वादने गाम् दोग्धि । 4 सोहनः 7•15 वादने हलकार्यम् करोति ।
5 सः 7•45 वादने परिवारेण सह वार्तालापं करोति । 6 सः सायंकाले 4•00 वादने चायपानम् करोति ।
7 सः 6•45 वादने क्षेत्रम् गच्छति । 8 सः 12•30 वादने विश्रामं करोति ।
9 सः 7•30 वादने क्षेत्रात् आगच्छति । 10 सः 9•45 वादने शयनाय गच्छति ।

प्रश्न 4 गद्यांशं पठित्वा उत्तराणि लिखत -

तस्यवचनम् अश्रद्धेयंमत्वामदोद्धताःकपयःविहस्यअवदन् - 'भो! किमिदम् उच्यते ? नवयम् स्वर्गसमानोपभोगान् विहाय अटव्यांक्षार - तिक्त - कपाय - कटु - रूक्षफलानिभक्षयिष्यामः।' एतच्छ्रुत्वासाश्रुनयनोयूथपतिः सगदगदम् उक्तवान् 'रस्तास्वादलुब्धाःयूयम् अस्यसुग्वस्यकुपरिणामंनजानीथ । अहंतुवन्गच्छामि ।' अथअन्यस्मिन् अहनि समेपोयावत् महानसंप्रविशतितावत् सूपकारेण अर्धज्वलितकाष्ठेनताडितः। ऊर्णा प्रचुरः मेषः वस्तिनाजाज्वल्यमान शरीरः निकटस्थां अश्वशालां प्रविशति दाहवेदनया च भूमौ लुठति । तस्य क्षितौ प्रलुठतः तृणेषु वस्तिज्वालाः समुत्थिताः ।

एकपदेन उत्तरत -

- 1 मेषः सूपकारेण केन ताडितः? 2 दाहवेदनया कः भूमौ लुठति? 3 कया मेषः भूमौ लुठति?
4 केन जाज्वल्यमान शरीरः मेषः अश्वशालां प्रविशति? 5 'क्षितौ' अत्र काविभक्तिः?
6 'तस्य' इति पदं कस्मै प्रयुक्तं? 7 'महानसं' इति पदस्य पर्यायवाचि लिखत । 8 मदोद्धताः के आसन् ?
9 कः साश्रुनयनः सगदगदम् अवदत् ?

पूर्ण वाक्येन उत्तरत

1 मेषः कीदृशः आसीत् ? 2 मेषस्य क्षितौ प्रलुठतः काः समुत्थिताः? 3 कपयः कथं प्रहस्य अवदन् ?

प्रश्न 5 श्लोकं पठित्वा उत्तराणि लिखत -

भगवन्किमुपादेयम् ? गुरुवचनम् , हेयमपि च किम्? अकार्यम् ।

कः गुरुः? अधिगततत्त्वः शिष्यहितायोद्यतः सततम् ।।

एकपदेन उत्तरत -

1 शिक्षकानुसारे उपादेयम् किम् अस्ति?

2 किम् हेयम्?

3 शिष्यहिताय.....सततम् उद्यतः भवति - उचितपदेन पूरयत । 4 'अकार्यम्' 'गुरुवचनम्' च पदयोः समासविग्रहं कुरुत ।

5 'हेयम्' इति पदस्य विपरीतभावात्मकं शब्दं चित्वा लिखत । 6 'किम्' पदस्य रूपम् पुल्लिङ्गे लिखत ।

7 'अधिगततत्वः' कस्य पदस्य विशेषणम्? 8 'त्याज्यम्' इत्यस्य पदस्य श्लोके पर्यायः कः वर्तते ?

एकवाक्येन उत्तरत -

1 गुरुः कः भवति?

2 कः पथ्यतरः? धर्मः कः शुचिरिह? यस्य मानसं शुद्धम् ।

कः पण्डितः? विवेकी, किम् विषम्? अवधीरणागुरुषु ।।

एकपदेन उत्तरत -

1 पण्डितः कः?

2 धर्मः कः?

3 'गुरुषु' पदे का विभक्ति?

4 'विवेकी' पदे कः प्रत्ययः?

5 केषाम् तिरस्कारणम् संसारे विषम्? 6 गुरुषु अवधीरणा किम् कथितम्?

7 इह पदस्य अर्थः - परलोके , अस्मिन् लोके वा । 8 'कः' पदस्य रूपम् स्त्रीलिङ्गे लिखत ।

एकवाक्येन उत्तरत -

1 इह कः शुचिः?

2 पण्डितः कः?

प्रश्न 6 अधोलिखित श्लोकयोः अन्वयम् समुचित क्रमेण पूरयत -

1 कपीनां मेदसा दोषो वह्नि दाहसमुद्भवः । अश्वानां नाशमभ्येतितमः सूर्योदये यथा ।।

अन्वयः—अश्वानां वह्निदाहसमुद्भवः (1).....कपीनां मेदसानाशम् (2).....यथा (3).....तमः ।

2 कलहान्तानिहर्म्याणिकुवाक्यान्तंचसौहृदम् । कुराजान्ताणिराष्ट्राणिकुकर्मान्तंयशोनृणाम् ।

अन्वयः-हर्म्याणि कलहान्तानि(1)चकुवाक्यान्तं(2) कुराजान्ताणि(3) ... यशः (च) कुकर्मान्तं
(भवति)अधोलिखितश्लोकयोःअन्वयम् समुचितक्रमेणपूरयत -

द्विगु समास

- | | | | |
|-------------------|-------------------------|----------------------------|---------------------------|
| 1 पञ्चत्वम् | 2 त्रिलोकी | 3 पञ्चानां गवां समाहारः | 4 पञ्चनदम् |
| 5 चतुष्पथम् | 6 सप्तानाम् अहनाम् समा• | 7 शतस्य अब्दानां समा• | 8 चतसृणां रात्रिणाम् समा• |
| 9 सहस्राब्दी | 10 नवग्रहम् | 11 पञ्चानाम् धेनूनाम् समा• | 12 पञ्चानां खट्वानां समा• |
| 13 सप्तर्षयः | 14 पञ्चछात्रम् | 15 दशस्य आननानाम् समा• | 16 द्वयोः रात्रयोः समा• |
| 17 वीरपुरुषः | 18 कुपरिणामं | 19 कटुभिः क्वणितैः | 20 विविधाः कथाः |
| 21 दग्धहयशालाम् | 22 विविधाः ग्रन्थाः | 23 शोभनम् पथम् | 24 कुमार्ग |
| 25 साधुजनगर्हितम् | 26 प्रभूतम् धनम् | 27 विचित्रः स्वप्नः | 28 नवरत्नम् |

रचनात्मक लेखन

- 1 व्याकरण पुस्तक में पृष्ठ संख्या 98 - 100 पर दिये गये चित्रों पर दस-दस वाक्य लिखिए -
- 2 व्याकरण पुस्तक में पृष्ठ संख्या 54 - 57 पर दिये गये पत्र मञ्जूषा की सहायता से पूर्ण कीजिए -

French

Q1. Mettez en ordre le dialogue suivant et récrivez:

Rahul : Que fais-tu comme travail?

Rahul: Félicitations ! Où?

Rahul: Je continue mes études à l'université.

Swati: Salut Rahul !Tu sais, j'ai un nouveau boulot.

Swati: Chez Microsoft.

Swati: Je suis informaticienne. Et toi, que fais-tu?

Q2. Complétez le texte en utilisant les mots/les expressions donnés :

(Un jour/ intéressants/ ensemble/ près de/ beaucoup/ toujours/qui/ décident/ aime/les) Ritwik est un jeune garçon _____ habite avec sa mère dans une petite ville _____ Mumbai. Il _____ lire et va souvent à la bibliothèque où il lit des livres _____. Il rêve _____ des villes et des pays étrangers et il voudrait _____ visiter. Il aime _____ voyager. _____ il rencontre un ami qui lui dit qu'il fait un grand voyage et qu'il va visiter beaucoup de villes magnifiques. Les deux garçons _____ de partir en voyage _____.

Q3. Mettez les verbes aux temps convenables:

- i. Le train (va partir / partir / est parti) dans quelques minutes.
- ii. Lorsque nous (nous sommes promenés/nous étions promenés/ nous étions promené), nous nous sommes reposés.
- iii. Quand le professeur est entré dans la salle de classe, les élèves (ont fait/faisaient/font) leur travail.
- iv. (Sois/ Soies/ Soit) à l'heure pour la réunion.
- v. L'année prochaine j'(allerais / irais / irai) en France avec mes camarades de classe.
- vi. Si je gagnais à la loterie, j'(achèterai / achèterais/ acheterai) une maison.

Q4.. Complétez avec des prépositions:

(au milieu/sur/ dans / contre/ au bord de/ chez/ à gauche)

- i. La dame place la fourchette _____ la table.
- ii. Les Français ont joué un match de football _____ les Espagnols.
- iii. La bibliothécaire a rangé les livres _____ les rayons.
- iv. Paul a passé ses vacances _____ la mer.
- v. Pauline emmène ses enfants _____ le médecin. vi. Il y a une petite île _____ du lac.

Q5.. Remplacez les noms soulignés par le/ la/ lui/ les / leur/ y/ en /eux/ moi, etc. :

- i. Hier soir, j'ai vu les voisines de Catherine au marché.
- ii. Denis achète un bouquet de fruits pour ses grands-parents.

Q6.Mettez au négatif:

- i. Corinne a déjà visité l'Inde.
- ii. La vieille dame aime les plats sucrés et les boissons aérées.
- iii. Tout est facile.

Q7. Reliez en utilisant les pronoms relatifs composés :

- i. J'aime le fauteuil. Le chat dort dans le fauteuil.
- ii. La fille est très belle. Il a acheté des fleurs pour la fille.
- iii. J'aime bien le restaurant. Tu as garé ta voiture devant le restaurant

Q8 Trouvez la question:

- i. Il va au lycée à pied.
- ii. J'en ai quatre.
- iii. Les touristes parlent au guide

Q9. Dites Vrai ou Faux:

- i. Il faut couper les arbres pour protéger l'environnement.
- ii. Dans la classe, il faut parler à ses amis et faire du bruit.
- iii. Il ne faut pas consulter le médecin avant de prendre des médicaments.
- iv. Tous les enfants doivent recevoir une bonne éducation.

Q10. Choisissez la bonne réponse :

(Le Taj Mahal/ froid/ Tamoul /SNCF/ pompiers / OMS / marque/ coréen)

- i. _____ est une langue indienne.
- ii. Motorola, c'est une _____ de portables.
- iii. _____ est le monument le plus visité du monde.
- iv. On peut contacter les _____ en cas d'incendie.
- v. _____, c'est une organisation qui dirige la santé publique internationale.
- vi. N'oubliez pas votre manteau. Il fait _____.

Q11. All tenses need to be revised and 2 sentences to be made using each tense. Tenses are mentioned below. (Incorporate irregular verbs and pronominal verbs)

1. Le présent
2. Le présent progressif
3. L'impératif
4. Le passé composé
5. Le passé récent
6. L'imparfait.
7. Le plus que parfait.
8. Le futur
9. Le future simple.
10. Le futur proche.
11. Le conditionnel

Q12. All Culture and Civilisation Question/Answers to be done in the workbook.

Q13. Cinq (Any 5) Compréhension écrite to be done in the workbook.

Q14. Ecrivez une invitation/un message à votre ami lui invitant à votre anniversaire.

Q15. Ecrivez une lettre à votre ami spécifiant vos projets d'avenir concernant vos études.

Mathematics

Holiday Assignment-Statistics, Probability, An Introduction to Trigonometry

1. What is probability that a non-leap year selected at random will contain 53 Sundays.
2. A bag contains 40 balls out of which some are red, some are blue and remaining are black. If the probability of drawing a red ball is $\frac{11}{20}$ and that of black ball is $\frac{1}{5}$, then what is the no. of blue ball.
3. Find the probability that a no. selected at random from the number 3,4,5,6,.....25 is prime.
4. A card is drawn at random from a well-shuffled deck of playing cards. Find the probability of drawing (a) A face card (b)card which is neither a king nor a red card.
5. Two dice are thrown at the same time. Find the probability that the sum of two numbers appearing on the top of the dice is more than 9.
6. Cards with numbers 2 to 101 are placed in a box. A card selected at random from the box. Find the probability that the card which is selected has a number which is a (i) perfect square.(ii)perfect cube.
7. Two dice are thrown at the same time. Find the probability of getting (a) same number on the both dice (b)different number on both dices.
8. Two dice are thrown simultaneously. What is the probability that:
 - (a) 5 will not come up either of them?
 - (b) 5 will come up on at least one?
 - (c) 5 will come at both dice?
9. The king, queen and jack of clubs are removed from a deck of 52 playing cards and remaining cards are shuffled. A card is drawn from the remaining cards. Find the probability of getting a card of (a)heart (b)queen (c)clubs
10. Three unbiased coins are tossed together. find the probability of getting
 - (i) all heads
 - (ii) two heads
 - (iii) one heads
 - (iv) at least two heads
11. Cards marked with the number 2 to 51 are placed in a box and mixed thoroughly. One card is drawn from the box . Find the probability that the number on the card is:
 - (i) An even number
 - (ii) A number less than 14

- (iii) A number is perfect square
- (iv) A prime number less than 20

12. An integer is chosen between 0 and 100. What is the probability that it is

- (i) Divisible by 9
- (ii) not divisible by 9.

13. If a number x is chosen from the numbers 1, 2, 3 & a number y is selected from the numbers 1, 4, 9. Then, find $P(x < y)$.

14. If empirical relationship between mean, median and mode is expressed as $\text{mean} = k(3 \text{ median} - \text{mode})$, then find the value of k .

15. If the mean of the following distribution is 25, then find p .

Class	0-10	10-20	20-30	30-40	40-50
Frequency	5	18	15	P	6

16. Find the value of p if the median of the following frequency distribution is 50

Class	20-30	30-40	40-50	50-60	60-70	70-80	80-90
Frequency	25	15	P	6	24	12	8

17. Find the median of the following data

Marks	Less Than 10	Less Than 30	Less Than 50	Less Than 70	Less Than 90	Less Than 110	Less Than 130	Less than 150
Frequency	0	10	25	43	65	87	96	100

18. The mean of the following frequency distribution is 57.6 and the sum of the observations is 50. Find the missing frequencies f_1 and f_2 .

Class	0-20	20-40	40-60	60-80	80-100	100-120	Total
Frequency	7	f_1	12	f_2	8	5	50

19. The following distribution give the daily income of 65 workers of a factory

Daily income (in Rs)	100-120	120-140	140-160	160-180	180-200
No. of workers	14	16	10	16	9

Convert the above to a more than type cumulative frequency distribution and draw its ogive.

20. If the median of the following distribution is 46, find the missing frequencies p & q :

Class	10-20	20-30	30-40	40-50	50-60	60-70	70-80	Total
Frequency	12	30	p	65	q	25	18	230

21. The following table gives the daily income of 50 workers of a factory. Draw both types (“less than type” and “greater than type” ogives and hence determine the median of the data:

Daily income (in Rs)	100 -120	120 -140	140-160	160-180	180 - 200
Number of workers	12	14	8	6	10

22. Draw ‘less than ogive’ and ‘more than ogive’ for the following distribution and hence find its median.

Classes	20-30	30-40	40-50	50-60	60-70	70-80	80-90
frequency	10	8	12	24	6	25	15

23. Find the mean, mode and median for the following frequency distribution

Class	25-29	30-34	35-39	40-44	45-49	50-54	55-59
Frequency	14	22	16	6	5	3	4

24. Compute the median of the following data.

Marks	More than or equal to 150	More than or equal to 140	More than or equal to 130	More than or equal to 120	More than or equal to 110	More than or equal to 100	More than or equal to 90	More than or equal to 80
Number of Students	0	12	27	60	105	124	141	150

25. Find Mode of the following frequency distribution:

Marks	More than or equal to 150	More than or equal to 140	More than or equal to 130	More than or equal to 120	More than or equal to 110	More than or equal to 100	More than or equal to 90	More than or equal to 80
Number of Students	0	12	27	60	105	124	141	150

26. Find the value of $\frac{(\cos 30^\circ + \sin 60^\circ)}{(1 + \cos 60^\circ + \sin 30^\circ)}$

27. If $\tan \theta = \frac{3}{4}$ then find the value of $\cos^2 \theta - \sin^2 \theta$

28. If $\cot \theta + \frac{1}{\cot \theta} = 2$ then find the value of $\cot^2 \theta + \frac{1}{\cot^2 \theta}$

29. If $\sin \theta = \frac{a}{b}$, then find the value of $\sec \theta + \tan \theta$

30. Simplify $(\sec \theta + \tan \theta)(1 - \sin \theta)$

31. If $A + B = 90^\circ$, then prove that $\sqrt{\frac{\tan A \tan B + \tan A \cot B}{\sin A \sec B} - \frac{\sin^2 B}{\cos^2 A}} = \tan A$

32. Prove that $\sqrt{\frac{\sec A - 1}{\sec A + 1}} + \sqrt{\frac{\sec A + 1}{\sec A - 1}} = 2 \operatorname{cosec} A$

33. Evaluate $\frac{11 \sin 70^\circ}{7 \cos 20^\circ} - \frac{4 \cos 53^\circ \operatorname{cosec} 37^\circ}{7 \tan 15^\circ \tan 35^\circ \tan 55^\circ \tan 75^\circ}$

34. In a right angled triangle ABC, right angled at B, if $\tan A = 1$, then verify that $2 \sin A \cos A = 1$.

35. If θ is an acute angle and $\sin \theta = \cos \theta$, find the value of $3 \tan^2 \theta + 2 \sin^2 \theta - 1$.

36. If $\frac{x}{a} \cos \theta + \frac{y}{b} \sin \theta = 1$ and $\frac{x}{a} \sin \theta - \frac{y}{b} \cos \theta = 1$, prove that $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 2$.

37. If $\frac{\cos \alpha}{\cos \beta} = m$, and $\frac{\cos \alpha}{\sin \beta} = n$, show that $(m^2 + n^2) \cos^2 \beta = n^2$

38. Prove that $(\tan A - \tan B)^2 + (1 + \tan A \tan B)^2 = \sec^2 A \sec^2 B$

39. If $(\cos \theta - \sin \theta) = \sqrt{2} \sin \theta$, then show that $\cos \theta + \sin \theta = \sqrt{2} \cos \theta$.

40. Prove that $(\sin \theta + \sec \theta)^2 + (\cos \theta + \operatorname{cosec} \theta)^2 = (1 + \sec \theta \operatorname{cosec} \theta)^2$

41. Prove that $\frac{\sin \theta}{(1 - \cos \theta)} + \frac{\tan \theta}{(1 + \cos \theta)} = \sec \theta \operatorname{cosec} \theta + \cot \theta$.

42. Prove that $(\sin \theta - \operatorname{cosec} \theta)(\cos \theta - \sec \theta) = \frac{1}{\tan \theta + \cot \theta}$.

43. If $\cot\theta = \frac{15}{8}$, evaluate $\frac{(2 + 2\sin\theta)(1 - \sin\theta)}{(1 + \cos\theta)(2 - 2\sin\theta)}$.

44. Prove that $\frac{(\sec\theta + \tan\theta - 1)}{(\tan\theta - \sec\theta + 1)} = \frac{\cos\theta}{(1 - \sin\theta)}$.

45. If $x = r \sin A \cos C$, $y = r \sin A \sin C$, $z = r \cos A$, Prove that $r^2 = x^2 + y^2 + z^2$.

46. Prove that $\frac{1}{\sec\theta - \tan\theta} - \frac{1}{\cos\theta} = \frac{1}{\cos\theta} - \frac{1}{\sec\theta + \tan\theta}$.

47. If $x = a \sin\theta$, $y = b \tan\theta$, prove that $\frac{a^2}{x^2} - \frac{b^2}{y^2} = 1$.

48. If $a \cos\theta + b \sin\theta = c$, then prove that $a \sin\theta - b \cos\theta = \mp \sqrt{a^2 + b^2 - c^2}$.

49. If A, B, C are interior angles of triangle ABC, show that $\operatorname{cosec}^2\left(\frac{B+C}{2}\right) - \tan^2 \frac{A}{2} = 1$.

50. If $\tan A = n \tan B$, $\sin A = m \sin B$, prove that $\cos^2 A = \frac{(m^2 - 1)}{(n^2 - 1)}$.

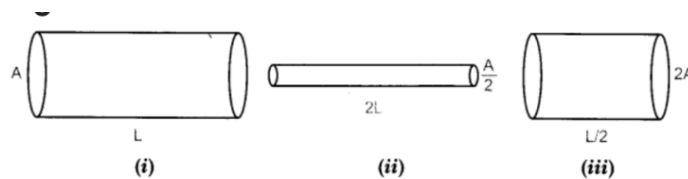
Science

General Instructions:

- All questions are compulsory.
- Students to do the questions in their respective CA/HA registers.
- To submit the registers by 5th July 2018

PHYSICS

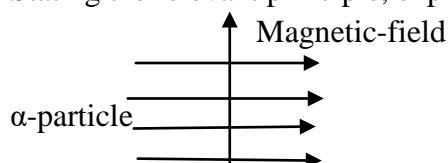
- The figure shows below three cylindrical copper conductors along with their face areas and lengths. Explain in which conductor the resistance will be highest and why?



- A hot plate of an electric oven connected to a 220 V line has two resistance coils A and B, each of 24 ohm resistance, which can be used in series and in parallel. Find currents in both cases? (**series-4.5, parallel-18.3**)
- Two wires A and B are of equal length and have equal resistance. If the resistivity of A is more than that of B. Which wire is thicker and why?
- Calculate the electricity bill amount for a month of 30 days, if following devices are used as specified:
 - 4 bulbs each of 60 W for 6 hours each day.
 - A TV of 100 W for 1 hour each day.
 - 3 tubelights each of 40 W for 8 hours each day.

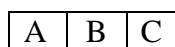
The cost per unit of electricity consumed is Rs. 2.50 . (Rs. **18.75**)

- An electric iron of 1KW is operated at 220 V. Find which of following fuses that respectively rated at 1 A, 3A and 5 A can be used in it.
 - A wire is cut into three equal parts and then connected in parallel. How its resistance and resistivity will get affected?
- A Particle enters a uniform magnetic field at right angles to it as shown in figure. Stating the relevant principle, explain in which direction will this particle move.



- Explain working of DC Motor with the help a well labelled diagram.

8. The given magnet is divided into three parts A, B and C

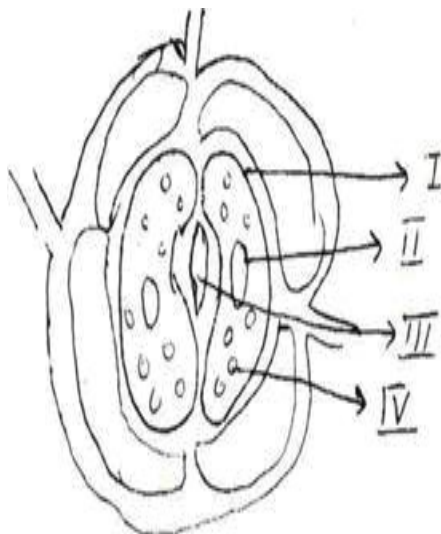


- (i) Name the parts where the strength of magnetic field is (a) maximum (b) minimum.
- (ii) How will the density of magnetic field lines differ at these parts?
9. What does the direction of thumb indicate in the right-hand thumb rule? In what way this rule is different from Fleming's left hand rule?
10. With the help of a labelled circuit diagram illustrate the pattern of field lines of the magnetic field around a current carrying straight long conducting wire. How is the right hand thumb rule useful to find direction of magnetic field associated with it?

BIOLOGY

1. How are alveoli designed to maximise the exchange of gases?
2. How are fats digested in the body? Where does this process take place?
3. What is meant by breathing? What happens to the rate of breathing during vigorous exercise?
4. Draw a neat labelled diagram of human heart and define cardiac cycle.
5. Describe in brief functions of kidneys, ureters, urinary bladder and urethra.
6. Explain the process of breakdown of glucose in a cell a) in presence of oxygen b) in the absence of oxygen
7. a) "The breathing cycle is rhythmic where as exchange of gases is a continuous process". Justify this statement.
b) What happens if conducting tubes of circulatory system develops a leak? State in brief, how this could be avoided.
8. a) Draw a diagram to show nutrition in amoeba and label the parts used for this purpose. Mention any other purpose served by this part other than nutrition.
b) Name the glands associated with digestion of starch in human digestive tract and mention its role.
c) How is required PH maintained in the stomach and small intestine?
9. Define translocation in plants. Why is it essential for plants? Where in plants the following are synthesised .i) sugar ii) Hormone

10. In the diagram given below, label the parts marked as I,II ,III and IV and mention the function of the given structure.



CHEMISTRY

1. What is redox reaction? Write down a chemical reaction representing it.
2. In electrolysis of water:
 - (a) Name the gas collected at cathode and anode.
 - (b) Why is volume of one gas collected at one electrode is double of another?
 - (c) Why are few drops of dil. H_2SO_4 added to water?
3. In the reaction $\text{CuO (s)} + \text{H}_2\text{(g)} \rightarrow \text{Cu(s)} + \text{H}_2\text{O (g)}$
 - (a) Name the oxidized substance.
 - (b) Name the reduced substance.
 - (c) Name the oxidizing agent.
4. Give reasons:
 - (a) White silver chloride turns grey in sunlight.
 - (b) Brown coloured copper powder on heating in air turns into black coloured substance.
5. Compound 'X' decomposes to form compound 'Y' and CO_2 gas. Compound Y is used in manufacturing of cement.
 - (a) Name the compounds 'X' and 'Y'.
 - (b) Write the chemical equation for this reaction.
6. A metal salt MX when exposed to light splits upto to form metal M and gas X_2 . Metal M is used to make ornaments whereas gas X_2 is used in making bleaching powder. The salt MX is used in black & white photography.
 - (a) Identify the metal M and gas X_2 .

- (b) Identify MX.
- (c) Write down the chemical reaction when salt MX is exposed to sunlight.
7. A metal strip X is dipped in blue coloured salt solution YSO_4 . After some time a layer of metal 'Y' is formed on metal strip X. Metal X is used in galvanization whereas metal Y is used for making electric wires.
- (a) What could be metal 'X' and 'Y'?
- (b) Name the metal salt YSO_4 .
- (c) What type of chemical reaction takes place between X and YSO_4 ? Write the balanced chemical equation.
8. White wash was being done at Mukesh's house. Mukesh saw that the painter added quick lime to drum having water. Mukesh touched outer surface of drum, it is unbelievably hot.
- (a) Write the chemical equation for above reaction.
- (b) What type of reaction is it?
- (c) What is utility of this reaction?
9. What types of reactions are represented by following:
- (a) $CaCO_3 \rightarrow CaO + CO_2$
- (b) $2Ca + O_2 \rightarrow 2CaO$
- (c) $Pb + CuCl_2 \rightarrow PbCl_2 + Cu$
- (d) $2FeSO_4 \rightarrow Fe_2O_3 + SO_2 + SO_3$
- (e) $Na_2SO_4 + BaCl_2 \rightarrow BaCl_2 + 2NaCl$
10. Write down the balanced chemical equation for the following:
- (a) Silver chloride is decomposed in presence of sunlight to give silver and chlorine gas.
- (b) Calcium oxide reacts with water to give lime water.
- (c) Sodium hydroxide reacts with hydrochloric acid to give sodium chloride and water.
- (d) Dil hydrochloric acid is added to copper oxide to give green coloured copper chloride and water.
- (e) Solution of barium chloride and sodium sulphate in water reacts to give insoluble barium sulphate and solution of sodium chloride.

Social Science

Geography (Disaster Management) Preparedness and Practical Understanding Skill

Month	May
Topic	<u>Social Science Disaster Management (As Prescribed by CBSE)</u>
Content Coverage	<p>Theme-</p> <p>PROJECT 1 :- role of government/non govt. functionaries in your locality on their role in disaster management.</p> <p>PROJECT 2 :- Generating awareness on disaster management.</p> <p>PROJECT 3 :- Preparation of models of disaster resilient structures.</p> <p>PROJECT 4 :- Pocket guide on first aid.</p> <p>PROJECT 5 :- institutional case study on disaster response.</p> <p>PROJECT 6 :- Communication facilities for disaster management.</p> <p>PROJECT 7 :- Preparation of disaster Contingency Plan .</p> <p>Students will choose one Project out of these Teacher will give guidelines about each project to the students .</p>
Nature of task	Individual Activity
Learning Objectives	<ul style="list-style-type: none"> • To create awareness among the students about Disaster Management. • To engage in activities which will help minimizing the damage caused by Disaster. • To impart knowledge about Disaster Preparations, relief & recovery
Task / Tools / Techniques	Students will prepare a folder
Execution of task / Procedure	<ol style="list-style-type: none"> 1) The project will be made in a a4 size paper sheet neatly kept in a folder 2) Outer cover of the folder of the project should depict the theme of the project 3) Name of the student , class and section should be written on the right hand side bottom portion of the front page 4) Each page should be serially numbered 5) First page inner side should contain index along with sub topics with serial number of pages 6) Students should mention the acknowledgement of the teachers , parents , neighbours and any professional from whom the help is sought for the project 7) Students must mention the source of information i.e.internet , newspaper, magazine, youtube, books etc. With dates.
Criteria / Rubrics for assessment	<p>The students will be assessed on the basis of</p> <p>Content accuracy and originality –(1 Mark), Presentation and creativity-(1 Mark), Process of Project completion-Initiative, Cooperativeness, Participation and punctuality-(1 Mark), Viva or written test for content assimilation-2marks</p>