

# Kendriya Vidyalaya AFS Rajokri

## Session-2021-22

### शरदकालीन अवकाश/ Autumn Break परियोजना

शरद कालीन अवकाश कार्य

कक्षा छठी

सभी विद्यार्थी वसंत पुस्तिका में दिए गए पाठ एवं भाषा की बात प्रश्नों का गहनता से अध्ययन करें।

- 1 वह चिड़िया जो
2. बचपन
3. नादान दोस्त
- 4 चांद से थोड़ी सी गप्पे
- 5 अक्षरों का महत्व
- 6 पार नज़र के
- 7 साथी हाथ बढ़ाना
- 8 ऐसे -ऐसे
- 9 टिकट एल्बम
- 10 झांसी की रानी एवं बाल राम कथा के पाठ
- 1 अवधपुरी में राम
- 2 जंगल और जनकपुर
- 3 दो वरदान।
- 4 राम का वन गमन
- 5 चित्रकूट में भरत
- 6 दंडक वन में 10 वर्ष
- 7 सोने का हिरण

इन सभी पाठों के प्रश्न उत्तर परीक्षा की तैयारी को ध्यान में रखते हुए याद करें एवं ।

दो पत्र लिखिए

- 1 प्राचार्य को 3 दिन के अवकाश के लिए पत्र लिखें ।
- 2 अपने मित्र को जन्मदिन पर बधाई देते हुए पत्र लिखें ।

दो अनुच्छेद लिखें

- 1 मेरा प्रिय खेल
- 2 मेरा प्रिय त्योहार ।

सत्र -2021-22

कक्षा- 6

विषय- संस्कृत

1. पाठ एक से आठ तक के पाठों के आधार पर पाठ के अभ्यास, पाठ का भावार्थ पढ़कर अर्द्धवार्षिक परीक्षा की तैयारी करें ।
2. गूगल क्लासरूम पर शेयर किये दो पेपर के उत्तर पाठ्यपुस्तक या सहायक पुस्तक की मदद से लिखकर अपलोड करें ।
3. पुष्प (नपुंसकलिंग शब्द) के शब्दरूप के आधार पर पुस्तक शब्द के शब्दरूप भी लिखो । (पृष्ठ- 90)
4. पाठ क्र. 8 सूक्तिस्तबकः के सभी श्लोकों को याद करो और अवकाश उपरांत अपनी कक्षा में सस्वर वाचन करें।
5. पाठ्यक्रम के अनुसार अर्द्धवार्षिक परीक्षा की तैयारी करे ।

# शरदकालीन अवकाश/ Autumn Break परियोजना कार्य

सत्र -2021-22

कक्षा- 7

विषय- संस्कृत

1. पाठ एक से आठ तक के पाठों के आधार पर पाठ के अभ्यास, पाठ का भावार्थ पढकर अर्द्धवार्षिक परीक्षा की तैयारी करें ।
2. गूगल क्लासरूम पर शेयर किये दो पेपर के उत्तर पाठ्यपुस्तक या सहायक पुस्तक की मदद से लिखकर अपलोड करें ।
3. नदी (स्त्रीलिंग शब्द) के शब्दरूप के आधार पर लक्ष्मी शब्द के शब्दरूप भी लिखो | पृष्ठ- 95
4. पाठ क्र. 6 के सभी श्लोकों को याद करके अवकाश उपरांत अपनी कक्षा में सस्वर वाचन करें।।
5. पाठ्यक्रम के अनुसार अर्द्धवार्षिक परीक्षा की तैयारी करे ।

# शरदकालीन अवकाश/ Autumn Break

परियोजना कार्य

सत्र -2021-22

कक्षा- 8

विषय- संस्कृत

1. पाठ एक से आठ तक के पाठों के आधार पर पाठ के अभ्यास, पाठ का भावार्थ पढकर अर्द्धवार्षिक परीक्षा की तैयारी करें ।
2. गूगल क्लासरूम पर शेयर किये दो पेपर के उत्तर पाठ्यपुस्तक या सहायक पुस्तक की मदद से लिखकर अपलोड करें ।
3. अस्मद् शब्द के शब्दरूप लिखकर के उसके आधार पर कोई पांच वाक्य संस्कृत में बनाएं। पृष्ठ- 123
4. पाठ-4 सदैव पुरतो निधेहि चरणम् पाठ को अच्छी तरह से याद करके अवकाश उपरांत अपनी कक्षा में सस्वर वाचन करें।
5. पाठ्यक्रम के अनुसार अर्द्धवार्षिक परीक्षा की तैयारी करे ।

# शरदकालीन अवकाश/ Autumn Break

परियोजना कार्य

सत्र -2021-22

कक्षा- 8

विषय- Hindi

1. पाठ्यक्रम के अनुसार अर्द्धवार्षिक परीक्षा की तैयारी करे ।
2. पाठ एक (ध्वनि) से पाठ दस (कामचोर) तक के सभी पाठों का पठन तथा अभ्यास कार्य में दिये गये प्रश्नों का अभ्यास एवं भाषा की बात का अध्ययन परीक्षा के अनुरूप करें ।

3. व्याकरण के प्रश्नों के लिए वसंत भाग तीन में दी गई भाषा की बात के अनुसार अन्य उदाहरण भी सहायक पुस्तकों से लिखकर अभ्यास करें ।
4. पुस्तक में दी गई कविताओं को याद करें ।
5. गूगल क्लासरूम पर शेयर किये दो पेपर के उत्तर पाठ्यपुस्तक या सहायक पुस्तक की मदद से लिखकर अपलोड करें ।

# शरदकालीन अवकाश/ Autumn Break

परियोजना कार्य

सत्र -2021-22

कक्षा- 7

विषय- Hindi

1. पाठ्यक्रम के अनुसार अर्द्धवार्षिक परीक्षा की तैयारी करे ।
2. पाठ एक (हम पंछी उन्मुक्त गगन के) से पाठ ग्यारह (रहीम के दोहे) तक के सभी पाठों का पठन तथा अभ्यास कार्य में दिये गये प्रश्नों का अभ्यास एवं भाषा की बात का अध्ययन परीक्षा के अनुरूप करें ।
3. व्याकरण के प्रश्नों के लिए वसंत भाग दो में दी गई भाषा की बात के अनुसार अन्य उदाहरण भी सहायक पुस्तकों से लिखकर अभ्यास करें ।
4. पुस्तक में दी गई कविताओं को याद करें ।
5. गूगल क्लासरूम पर शेयर किये दो पेपर के उत्तर पाठ्यपुस्तक या सहायक पुस्तक की मदद से लिखकर अपलोड करें ।

(Gajender Singh)

शरदावकाश गृह कार्य -

विषय- हिंदी

कक्षा- सातवीं

1-निम्नलिखित विषयों पर अनुच्छेद लिखिए।

- 1- अपने जीवन से जुड़ी कोई साहसिक घटना
- 2- जीवन में आजादी का महत्व
- 3- मेरा प्रिय त्योहार दशहरा
- 4- ब्लड बैंक में रक्त से क्या लाभ है?

2-आना,ई, वाला और ता प्रत्यय से पांच शब्द बनाइए।

3-परीक्षा के लिए समस्त पाठ्यक्रम को पढ़िए और याद कीजिए।

शरदावकाश गृह कार्य -

विषय- हिंदी

कक्षा- नवमी

1-सभी छात्रArt integrated learning परियोजना कार्य पूरा करें। (परियोजना कार्य जमा करने की दिनांक 8/10/2021है। यह परियोजना कार्य 1 महीने पहले दिया जा चुका है।

2 निम्नलिखित प्रश्नों के उत्तर एक पंक्ति में लिखिए।

क-तिगरी का विशाल मैदान कैसा दिखाई देता था?

ख-सुमित के यजमान कहां थे?

ग-गंडे किस चीज के होते थे?

घ-नम्से से कौन थे?

च- तिब्बत में खतरनाक जगह कौन सी है?

छ-तिब्बत में कानून की क्या स्थिति है?

ज-कवि किसको और कहां ढूंढता फिरता है?

झ-मानसरोवर से कवि का क्या आशय है?

ट-सहज दुलीचा का क्या अर्थ है?

ठ-कविवित्री की कहां जाने की इच्छा है?

3-Term-1 हिंदी के 2 सैंपल पेपर हल कीजिए।

शरदावकाश गृह कार्य -

विषय- हिंदी

कक्षा- दसवीं

1-सभी छात्र Art integrated learning परियोजना कार्य पूरा करें। (परियोजना कार्य जमा करने की दिनांक 8/10/2021 है। यह परियोजना कार्य 1 महीने पहले दिया जा चुका है।

2-Term-1 के नवीनतम पाठ्यक्रम के अनुसार 4 सैंपल पेपर हल कीजिए। ( Geeta Tripathi)

Holiday Homework ( Autumn break)

Class VII (Social Science)

Two set model question paper solve

Class VIII (Social Science)

Two set model question paper solve

( R K Ram)

Class VI(SCIENCE)

1. Make an art integrated project on the topic –  
Adaptations in plants and animals living in the climate of Sikkim.  
(Make a file or PPT with art/ drawing/ hand work/ pictures/mapsetc)
2. Write down air quality Index (AQI) of your city for one week and  
Write a paragraph about the quality of air you are living in.
3. Practice of MCQs through live sheets/ Work sheets  
( Ch- 1- 8)

Class IX(Science)

1. Make an art integrated project on the topic- Flora and Fauna in Sikkim
2. Practice of 5 CBSE sample papers.
3. CCT tests (5) on DIKSHA portal.

Class X(Science)

1. Make an art integrated project on the topic-  
Biodiversity in Sikkim.
2. Practice of 5 CBSE sample papers.
3. CCT tests (5) on DIKSHA portal

(SADHNA SHARMA)



## **AUTUMN HOLIDAYS HOMEWORK**

### **CLASS VI A**

- 1.Revise Chapters 1 to 8 and solve Examples in your Maths Notebook.
- 2.Make a chart of Indian Mathematicians using cutting and pasting method.
- 3.Make a Mathematics Model.

### **CLASS VII A,B**

- 1.Revise Chapters 1 to 8 and solve example in your Maths notebook.
- 2.Compare marks of last year(PT-1,PT-2,PT-3,PT-4,Half Yearly,Annual)using bar graph.
3. Make a Mathematics model.

### **CLASS VIII B**

- 1.Revise Chapters 1 to 8 and solve examples in your Maths notebook.
- 2.Draw circle graph or pie chart for the expenditure on you and your siblings by your Parents.
- 3.Make a Mathematics model.

### **CLASS IX B**

- 1.Revise chapters 1 to 8 and solve Examples in your Maths notebook.
- 2.Make a Mathematics Model.

Kavita Dua

Class IX Social Science

Four set model question paper solve.

R K Ram

**HOLIDAY HOMEWORK**

**AUTUMN BREAK (09/10/2021- 20/10/2021)**

## **MATHEMATICS**

### **CLASS VI**

1. Revise all the chapters 1-8 for Mid Term Examination.
2. Complete the questions on homework app assigned on Google classroom.
3. Practice quizzes on kahoot.

### **CLASS VIII**

1. Revise all the chapters 1-9 for Mid Term Examination.

2. Complete the questions on homework app assigned on Google classroom.
3. Practice quizzes on kahoot.

### **CLASS IX**

1. Revise all the chapters for Term End Examination.
2. Complete the questions on homework app assigned on Google classroom.
3. Practice quizzes assigned on Diksha portal.

### **CLASS IX**

1. Revise all the chapters for Pre Term End Examination.
2. Complete the questions on homework app assigned on Google classroom.
3. Practice 5 sample papers assigned on Google classroom

(Priyanka Sharma)

## **Autumn Break Holiday home work**

**Session – 2021-22**

**Class - 8<sup>th</sup>**

**Subject – Science**

Make a separate notebook for summer break holidays homework

1. learn keywords and exercise questions of the following chapters.
  - a. Crop production and Management.
  - b. Metals and non-metals.
  - c. Microorganisms friend and foe.
  - d. Synthetic fibres and plastics.
  - e. Coal and petroleum
  - f. Combustion and flame
  - g. Conservation of plants and animals
  - h. Cell structure and functions
  - i. Reproduction in animals
3. Collect new agricultural machine pictures and paste in notebook with their names and uses.
4. Collect the labels from the bottles of jams and jellies. Write down the list of contents printed on the labels.
5. Draw following diagrams

Different types of micro organisms

Structure of flame

Budding in hydra

Cell structure

Life cycle of frog and silkworm

Human sperm .. female and male reproductive organs

Binary fission in amoeba

4. Find out the locations of the deposits of iron, aluminium and Zinc in India. Mark these in an outline map of India in which form are the deposits found.

## **Summer break holiday homework**

### **Class 8 A & B(Science)**

Make a separate notebook for summer break holidays homework

1. learn keywords and exercise questions of the following chapters.

a. Crop production and Management.

b. Metals and non-metals.

c. Microorganisms friend and foe.

d. Synthetic fibres and plastics.

e. Coal and petroleum

f. Combustion and flame

g. Conservation of plants and animals

h. Cell structure and functions

i. Reproduction in animals

3. Collect new agricultural machine pictures and paste in notebook with their names and uses.

4. Collect the labels from the bottles of jams and jellies. Write down the list of contents printed on the labels.

5. Draw following diagrams

Different types of micro organisms

Structure of flame

Budding in hydra

Cell structure

Life cycle of frog and silkworm

Human sperm .. female and male reproductive organs

Binary fission in amoeba

5. Find out the locations of the deposits of iron, aluminium and Zinc in India. Mark these in an outline map of India in which form are the deposits found.

(Suraksha)

## **Summer break holiday homework**

## Class 8 A & B

Make a separate notebook for summer break holidays homework

1. learn keywords and exercise questions of the following chapters.

a. Crop production and Management.

b. Metals and non-metals.

c. Microorganisms friend and foe.

d. Synthetic fibres and plastics.

e. Coal and petroleum

f. Combustion and flame

g. Conservation of plants and animals

h. Cell structure and functions

i. Reproduction in animals

3. Collect new agricultural machine pictures and paste in notebook with their names and uses.

4. Collect the labels from the bottles of jams and jellies. Write down the list of contents printed on the labels.

5. Draw following diagrams

Different types of micro organisms

Structure of flame

Budding in hydra

Cell structure

Life cycle of frog and silkworm

Human sperm .. female and male reproductive organs

Binary fission in amoeba

5. Find out the locations of the deposits of iron, aluminium and Zinc in India. Mark these in an outline map of India in which form are the deposits found. **(Abhshek Singh)**

AUTUMN BREAK HOMEWORK, 2020-21  
CLASS: VIII ( ENGLISH)

- I. Practice 2 unseen passages.
- II. Write the paragraphs on the following topics:
  1. Books- Our Best Companions  
Hints:- •Human relations can be deceptive and unreliable • Books- our best Companions • Our friends and guides • Educative as well as informative
  2. Description of any IPL match.
  3. Learning during Corona (online teaching- learning: benefits and lacunae)
- III. Write any two Editing passages, two Omission and two gap filling passages
- IV. Write the summary of The Fight and its message.
- V. Read the chapter 'This is Jody's Fawn' and write its summary and message.  
Practice tense and write any five passages on Reported Speech.

Compiled by-  
Seema Sharma

AUTUMN BREAK HOMEWORK, 2021-22

CLASS: IX( ENGLISH)

1. Solve any 2 complete sample papers.
2. Revise the complete Syllabus for Term -1.
3. Write the theme and message of each chapter.
4. Write any 5 passages on Reported Speech.
5. Write any 10 Editing and Omission passages.
6. Write any two stories with appropriate titles.
7. Write any two descriptive paragraphs.

Compiled by-  
Seema Sharma  
(TGT-Eng)

## AUTUMN BREAK ASSIGNMENT (2021-22)

### CLASS – VI SOCIAL SCIENCE

#### Geography

- On the outline map of the world mark all the seven continents and five oceans.
- Locate all the states and Union Territories of India with its capital on India political map.
- With the help of a sketch give direction to your friend to find and reach your home.

#### History

- **Gather information about the most powerful mahajanapada 'MAGADHA'**  
Write about the kingdom, powerful rulers, their administration and all other important facts that you can find out about this earliest kingdom.
- Locate Magadha (with its capital) and all other mahajanapadas on map of India.
- Picture can also be pasted

#### Civics

- Write notes on Monarchy system and Democratic government (one page each)
- Differentiate between monarchy and democratic form of government.
- Which system you prefer?
- What was Apartheid? How were the natives in Africa discriminated against?

Learn complete Term -1 syllabus for upcoming MID TERM EXAMS.

CLASS: X ( ENGLISH)

- I. Solve 2 sample papers in a fair notebook.
- II. Revise the complete Syllabus for Term-1.
- III. Do write the message of each and every chapter from both the books.
- IV. Write the poetic devices used in the poem and the chapter as well along with the examples.
- V. Write Ten Editing and Omission passages ( with complete questions)
- VI. Practice reported speech (write any 10 passages)
- VII. Write any two situational letters in proper format.
- VIII. Write any 20 sentences using subject- verb- concord.

Compiled by-  
Seema Sharma  
(TGT-Eng)

## COMPUTER SCIENCE/INFORMATION TECHNOLOGY

CLASS XII, XI AND X

S. No.	Class	Subject	Topic
1	XII	Computer Science	I. Solve 10 Term-1 Sample Papers accordingly CBSE & KVS split up syllabus in the specified notebook
			II. Read study materials
			III. Read PPT
			IV. Make Videos as per topic assigned of tem-1 syllabus
			V. Complete Practical and project file for the term-I
2	XI	Computer Science	I. Solve 05 sample paper from <a href="http://www.pythonworld.in">www.pythonworld.in</a> in your notebook
			II. Read study materials
			III. Read PPT
			IV. Make notes of Chapter-1 to 03 ( Solved & Unsolved problems)
			V. Complete Quiz as per topic allotted
3	X	Information Technology	I. Solve 10 Term-1 Sample Papers accordingly CBSE & KVS split up syllabus in the specified notebook
			II. Read study materials
			III. Read PPT
			IV. Make Quiz as per topic assigned of tem-1 syllabus
			V. Complete Practical and project file for the term-I

D. S. Thakur

Principal

PGT (Comp. Sci.)

AUTUMN BREAK HOLIDAY HOMEWORK

CLASS 11

- Answer all questions given in back exercise of chapter Motion In Plane in fair note book
- Make a formula register as advised in class. It should have all formulas from first four chapters.
- Answer first ten questions from chapter 1 to 4 from Exemplar Problems book in fair note book
- Learn and practice all mcqs from CBSE compendium shared with you all on goggle classroom .
- PREPARE WELL FOR OFFLINE TERM 1 EXAM WHICH ARE GOING TO START FROM 21<sup>ST</sup> OCTOBER.

HAPPY HOLIDAYS!

### CLASS 12

- Revise first seven chapters thoroughly.
- Practice all examples from NCERT.
- Make a formula register as advised in class. It should have all formulas from first seven chapters.  
Learn all formulas.
- Practice sample paper given by cbse. It has been uploaded on google classroom.
- Practice from student support material, compendium given by cbse, material of Hyderabad region, Raipur region....These all are uploaded on google classroom.
- PREPARE WELL FOR OFFLINE TERM 1 EXAM WHICH ARE GOING TO START FROM 21<sup>ST</sup> OCTOBER.

HAPPY HOLIDAYS!

(Sonia Baweja)



शरद कालीन अवकाश कार्य

कक्षा 11वीं

आप सभी विद्यार्थियों को

1 नमक का दरोगा

2 मियां नसीरुद्दीन

3 कबीर

4 मीरा एवं

5 भारतीय गायिकाओं में बेजोड़ लता मंगेशकर पाठो के प्रश्न उत्तर याद करने हैं एवं अभिव्यक्ति और माध्यम पुस्तक से जनसंचार माध्यम के प्रश्न उत्तर लिखेंगे आप सभी को कक्षा ग्यारहवीं की अध्ययन सामग्री भेज दी गई है उसे ध्यान से पढ़ें और परीक्षा की तैयारी करें।

शरद कालीन अवकाश कार्य

कक्षा 12वीं

आप सभी विद्यार्थी आरोह पाठ्यपुस्तक के पाठ भक्तिन, बाजार दर्शन ,कविता के बहाने ,कैमरे में बंद अपाहिज, सिल्वर वेडिंग, जूझ ,काले मेघा पानी दे, सहर्ष स्वीकारा है, पहलवान की ढोलक एवं अभिव्यक्ति और माध्यम के बहुविकल्पी प्रश्न अभ्यास, विभिन्न माध्यमों के लिए लेखन पाठ के बहुविकल्पी प्रश्न उत्तर इन सभी पाठों को आप परीक्षा को ध्यान में रखते हुए अवश्य पढ़ें एवं आपको 5 हिंदी के सैंपल पेपर भी करने हैं आपको अध्ययन सामग्री भेज दी गई है उसे भी अवश्य पढ़ें।

## **Autumn Break Holiday home work**

**Session – 2021-22**

**Class - 11<sup>th</sup>**

**Subject – chemistry**

Make a separate notebook for summer break holidays homework

- 1) Practice MCQ for the chapters 1) some basic concepts of chemistry. 2) structure of atom. 3)classification of elements and periodicity in properties 4) chemical bonding and molecular structure.
- 2) Write the electronic configurations for elements from hydrogen to neon in terms of MOT
- 3) Make a tabular form for shape/ geometry / ions with central ions having one or more lone pair of electrons from the book mention molecular type and hybridisation also.
- 4) Write intext and exercise questions and answers for the chapters three and four.

## **Autumn Break Holiday home work**

**Session – 2021-22**

**Class - 12<sup>th</sup>**

**Subject – chemistry**

Make a separate notebook for summer break holidays homework

- 1) Practice MCQ for the chapters included in first term.
- 2) Write intext and exercise question and answers for the chapters Alcohols phenols and Ethes, halo alkanes and arenes .. biomolecules
- 3) Solve exercise questions from p-block elements.

Kendriya Vidyalaya AFS Rajokri, New Delhi

Holidays Home Work (Autumn Break)

Subject: Economics

Class- XI

1. Complete all the work done and upload in google classroom
2. Revise the complete syllabus for PT1 exam.
3. Prepare Project on the assigned topic for Term 1

Class – XII

- 1 Revise the complete syllabus for Pre Term 1 exam.
2. Complete all the work done and upload in google classroom.
3. Prepare Project on the assigned topic for Term 1
4. Practice at least 5 sample Papers.

Ritu Tanwar

PGT (Economics)

Holiday Home work(Autumn Break)  
Physical Education

Class 6-10

- 1) Do Yogasan ,Pranayam and exercise daily . Encourage parents also to exercise with you.
- 2) Eat healthy diet.

Class 11

- 1) Complete question Answers of ch1-3 in note book
- 2) Revise ch-1-3 for PT1
- 3) Do Yogasan ,Pranayam and exercise daily . Encourage parents also to exercise with you.
- 4) Eat healthy diet.

## Class 12

- 1) Complete question Answers of chapters up to 10 in note book
- 2) Revise for Half yearly Exams
- 3) Do Yogasan ,Pranayam and exercise daily . Encourage parents also to exercise with you.
- 4) Eat healthy diet.

(Richa Arya)

## Class VI(SCIENCE)

1. Make an art integrated project on the topic –  
Adaptations in plants and animals living in the climate of Sikkim.  
(Make a file or PPT with art/ drawing/ hand work/ pictures/mapsetc)
2. Write down air quality Index (AQI) of your city for one week and  
Write a paragraph about the quality of air you are living in.
3. Practice of MCQs through live sheets/ Work sheets  
( Ch- 1- 10)

### Class VI

Sl.no	MONTH	CHAPTERS
1.	April	Ch 1-Food: Where Does It Come From Ch 2-Components Of Food
2.	May-June	Ch 3- Fibre To Fabric
3.	July	Ch 4- Sorting Materials Into Groups. Ch 5- Separation Of Substances Ch 6- Changes Around Us
4.	August	Ch 7- Getting To Know Plants Ch 8- Body Movements
5.	September	Ch 9- The Living Organisms And Their Surroundings Ch 10- Motion And Measurement Of Distance

Practice these chapter for mid term exam

(Falendra)

## Class IX A +B Artificial Intelligence

1. Python Programming Do Practical based in practical File( page No. 161 and 179)

Unit 4: Introduction to Python ( make a at least 25 programme.)

Unit 1: Communication Skills-I
Unit 2: Self-Management Skills-I
Unit 3: ICT Skills-I
Unit 4: Entrepreneurial Skills-I
Unit 5: Green Skills-I

Possibilities
AI Ethics
Excite
Relate
Purpose
Data Acquisition
Data Exploration
Modelling

Do Self Assessment Question and Answer above mention unit and topic

**Computer Class VI to VIII**

Class VI	<b>PROGRAMMING WHAT AND HOW</b> <hr/> <b>PYTHON TURTLE</b> <hr/>	Exercise and make a python Turtle and take a print out
Class VII	<b>CODE - DECODE</b> <hr/> <b>PYTHON</b> <hr/> <b>PYTHON PROGRAMMING</b>	Exercise and make a Programme and take a print out also. Download python (make a programme at least 15)
Class VIII	<b>INTRODUCTION TO DATABASE CONCEPTS</b> <hr/> <b>RECAP OF PYTHON OF CLASS VII</b> <hr/> <b>LOGICAL OPERATORS IN PYTHON</b> <hr/> <b>PYTHON</b>	Exercise and make a Programme and take a print out also and downloads libra office and python install your pc and make a programme at least 15.
		Falendra



Future skills and sustainability



GRADE 7, Time: 30 min

Max. marks: 20

Answer the questions within the allocated time.

1. Satellite is also known as:

- a) Lander
- b) Orbiter
- c) Rover
- d) CEV

2. Example of satellite science instrument directly used for studying planetary surface and environment is:

- a) High gain communication antenna.
- b) High resolution camera
- c) Orientation finder
- d) Solar panel



3. The Sriharikota spaceport at the Satish Dhawan Space Center (SDSC-SHAR) is used by which organization?

- a) Indian satellite research organisation
- b) Indian space research organisation
- c) Ireland space research organisation
- d) Indian solar reliable orbiter

4. “Strong international cooperation is needed to ensure that countries have the means to recover from pandemic, build back better, and attain the SDGs.”

Which of the following SDGs best represents this aim?



5. Torque is a measure of \_\_\_\_\_ that can cause an object to rotate about its axis.

- a) Force
- b) Gravity
- c) Weight
- d) Speed

6. To get high speed at driven gear, driver gear must have:
- Same number of teeth as driven
  - More number of teeth than driven
  - Less number of teeth than driven
  - Speed don't depend upon number of teeth
7. A Satellite has the following science instruments. High resolution camera, Imaging spectrometer, Magnetometer. Which of the following areas is the satellite not used for?
- Geographical features
  - Mapping the magnetic field of the planet.
  - Analyse chemical composition of surface features.
  - Map the Ocean floor.
8. The ability to perform a certain activity well is a/an
- Aptitude
  - Skill
  - Hobby
  - Interest
9. Which of the following groups represents sources of sustainable energy?
- Solar, Hydropower, Petroleum, Biomass energy
  - Geothermal, Wind, Tidal, Coal
  - Fossil fuels, Biomass energy, Wood, Nuclear
  - Wind, Hydropower, Geothermal, Solar
10. What is the use of gearbox in a car?
- To control the speed
  - To change the direction of a car
  - To generate electricity
  - Both (a) and (b)
11. The Sustainable Development Goals (SDGs) were adopted by The United Nations in \_\_\_\_\_
- (a) 2015                      (b) 2016                      (c) 2017                      (d) 2018
12. What is meant by gear ratio?
- The ratio of driver gear speed and gear speed of driven gear
  - The ratio of number of teeth on driven gear to the number of teeth on driver gear.
  - Both i and ii
  - None of the above

- 13.If we require high speed at driven gear, which gear should have more teeth?
- Driver gear
  - Driven gear
  - Both
  - None
- 14.A typical satellite link requires a/an \_\_\_\_\_ signal to communicate from an Earth station to a satellite.
- Uplink
  - Downlink
  - Upload
  - Download
- 15.CEV with reference to space exploration stands for
- Commercial Equipment Vehicle
  - Crew Exploration Vehicle
  - Communication Establishment Vehicle
  - Commercial Exploration Vehicle
- 16.Choose the correct reason/s for the given statement.  
“*Astronauts experience G-Force due to high velocity fall.*”  
A CEV has a conical shape so that ---(***Choose the statements below that support the above statement with reference to CEV design.***)
- It controls the G-Force experienced by the astronauts.
  - Provides crew member’s seating arrangement.
  - Helps control blood circulation at time of entry into Earth’s atmosphere.
  - The bottom surface can withstand greater temperatures during re-entry.
- Both A and D are correct
  - Both B and C are correct
  - Both A and C are correct
  - Both B and D are correct
- 17.Which of the following pollutants are not considered when measuring air quality?
- CO, O<sub>3</sub>, PM<sub>2.5</sub>
  - NH<sub>3</sub>, PM<sub>10</sub>, Pb
  - NO<sub>2</sub>, SO<sub>2</sub>, O<sub>3</sub>
  - PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>
- 18.SWOT stands for
- Strengths, Wellbeing, Opportunities, Threat
  - Sudden Weaknesses, Outstanding Threats
  - Social Ways of Overcoming Threats
  - Strengths, Weakness, Opportunities, Threats

19. What does the term “Sustainability” mean?
- a) The implementation of eco-friendly technologies to create new industry solutions.
  - b) Meeting our own needs without compromising the ability of future generations to meet theirs.
  - c) The use of alternative energies to power future vehicles to meet our needs.
  - d) To develop renewable sources of energies for future generations.

20. Which of the following was the first artificial satellite?
- a) Lander Beagle
  - b) Sojourner
  - c) Apollo 11
  - d) Sputnik

21. Looking at the following sentences can you identify which is a Strength?
- a) Loyal customer base
  - b) New market opened up
  - c) Poor staff training
  - d) New competition

22. The build-up of .....which causes the “greenhouse effect” in the atmosphere is leading to current global warming.
- a) Chlorine
  - b) Sulphur dioxide
  - c) Carbon dioxide
  - d) Fluorine

23. Identify the type of Gear in the given image.
- a) Spur gear
  - b) Bawel gear
  - c) Spiral gear
  - d) Pivot gear

24. To measure surface temperature \_\_\_\_\_ is used in satellites.
- a) Heat sensors
  - b) Heat receptors
  - c) Thermometer
  - d) Optical sensor

25. Identify the Sustainable developmental goal in the given image
- a) Good health and Wellbeing
  - b) It is goal no. 3
  - c) Healthy heart and long life

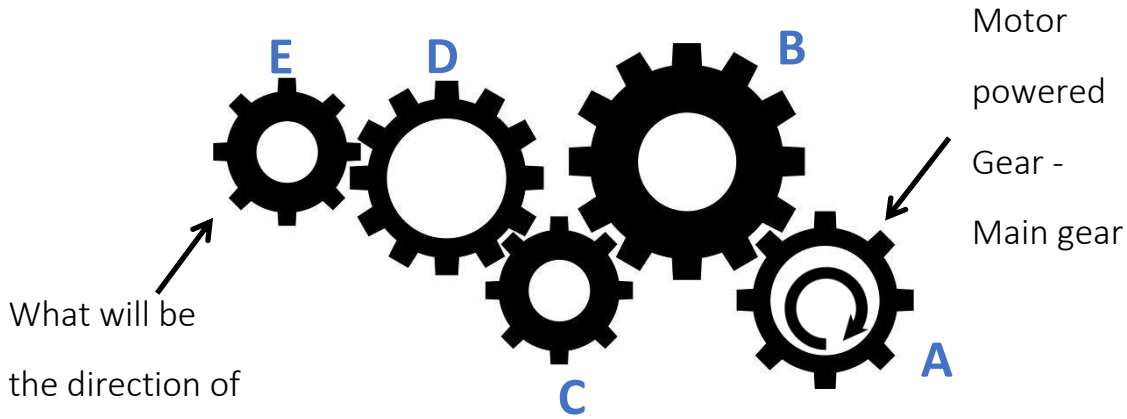




d) Both a and b

26. John made his own engine for his project. He used multiple gears in the engine design. Now, he is stuck at one point and cannot find the direction of the last gear (E). Help him to find the direction of rotation.

Engine gear train:

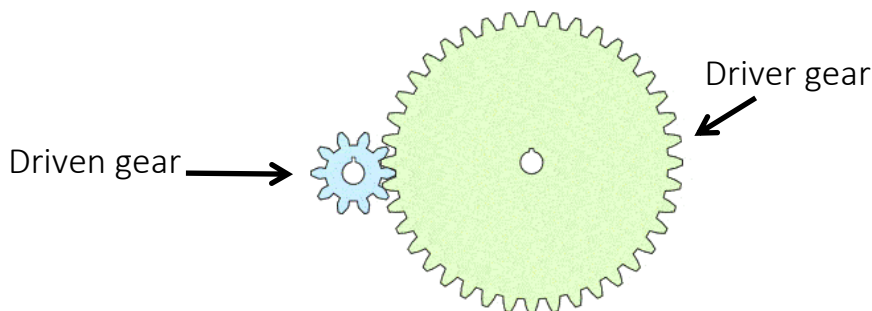


- a) Same as main gear A
- b) Opposite direction compared to gear D
- c) Same direction as gear D
- d) Opposite direction compared to gear A

27. Cross the odd one which is not a simple machine.



28. Choose the speed and torque in the given gear train.



The speed of the driven gear is (1) \_\_\_\_\_ (high/low) and the torque of the driven gear is (2) \_\_\_\_\_ (high/low).

- a) (1) = High, (2) = High

- b) (1) = Low, (2) = Low
- c) (1) = High, (2) = Low
- d) (1) = Low, (2) = High

29. Observe the image and tick which human skills are not showing.

- a) Kindness
- b) Effort
- c) Integrity
- d) Peace



Delhi Police distributed food packets to migrant labourers and the homeless during the pandemic. (Photo: Raj K Raj/HT)

30. The statement falls under which SDG?

Statement: 'By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination.'

- a)  6 CLEAN WATER AND SANITATION
- b)  11 SUSTAINABLE CITIES AND COMMUNITIES
- c)  12 RESPONSIBLE CONSUMPTION AND PRODUCTION
- d)  3 GOOD HEALTH AND WELL-BEING

31. Which SDGs are best supported by the news item given below?



India's 1st functional smog tower inaugurated at Delhi's Anand Vihar

short by Atul Mishra / 08:53 am on 08 Sep 2021,Wednesday

Union Minister of Environment Bhupender Yadav on Tuesday virtually inaugurated India's first functional and Delhi's second smog tower at Anand Vihar. Standing at a height of around 24 metres, the smog tower can filter around 1,000 cubic metres of air per second. This comes after a smog tower was inaugurated at Delhi's Connaught Place (CP) on August 23.

- a)  13 CLIMATE ACTION  11 SUSTAINABLE CITIES AND COMMUNITIES  9 INDUSTRY, INNOVATION AND INFRASTRUCTURE  3 GOOD HEALTH AND WELL-BEING
- b)  1 NO POVERTY  13 CLIMATE ACTION  11 SUSTAINABLE CITIES AND COMMUNITIES  12 RESPONSIBLE CONSUMPTION AND PRODUCTION
- c)  10 REDUCED INEQUALITIES  16 PEACE, JUSTICE AND STRONG INSTITUTIONS  3 GOOD HEALTH AND WELL-BEING  9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

d)

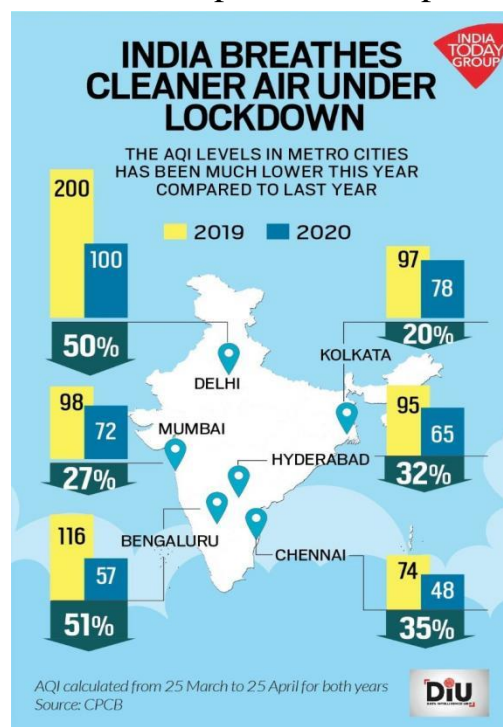
32. Observe the AQI data of different states given below and identify the trend in the value of PM 2.5 and PM 10.

STATE	AQI	PM2.5	PM10	Temp	Humid	STATE	AQI	PM2.5	PM10	Temp	Humid
<b>A</b>						<b>J</b>					
Andhra Pradesh	98	43	92	35	24	Jharkhand	148	65	155	36	21
Arunachal Pradesh	215	90	248	29	24	<b>K</b>					
Assam	218	91	243	33	27	Karnataka	84	42	63	31	26
<b>B</b>						Kerala	68	30	68	32	60
Bihar	209	99	163	34	28	<b>M</b>					
<b>C</b>						Madhya Pradesh	78	28	80	30	26
Chandigarh	84	32	59	31	32	Maharashtra	121	42	133	33	33
Chhattisgarh	37	14	34	35	21	Manipur	80	26	82	32	15
<b>D</b>						Meghalaya	29	6	29	28	27
Dadra and Nagar Haveli	138	23	159	34	14	Mizoram	108	35	112	30	22
Delhi	101	45	99	32	34	<b>N</b>					
<b>E</b>						Nagaland	21	7	21	32	18
Gujarat	149	63	152	34	30	<b>O</b>					
						Odisha	48	26	41	36	21

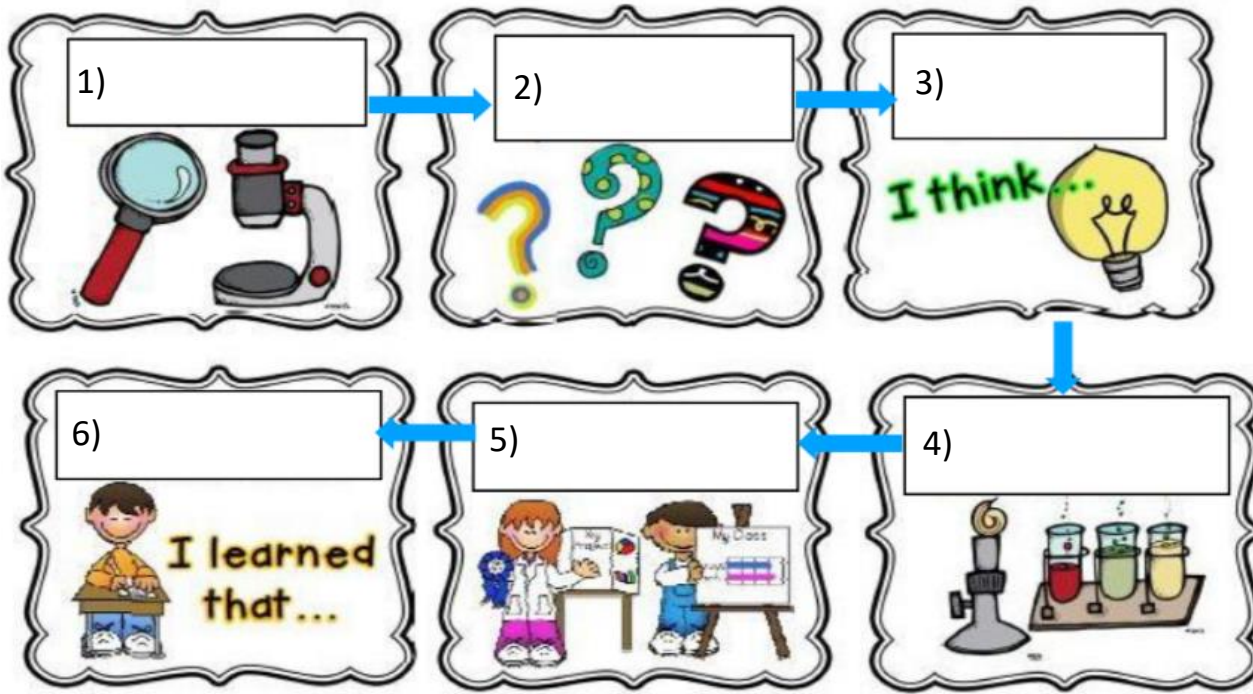
- a) PM 2.5 values are higher than PM 10 across the states.
- b) PM 10 values are higher than PM 2.5 across the states.
- c) PM 2.5 and PM 10 values are nearly similar with less difference between both.
- d) There are no identifiable trends between both PM 10 and PM 2.5 values.

33. Data shows that air pollution reduced during the lockdown period and improved people’s health. We can see that Delhi and Bengaluru showed maximum improvement in air quality. Study the data shown and choose the statement that do not support this observation.

- a) Reduction in traffic due to work from home option.
- b) Burning of *parali* (crop stems/straw)
- c) Reduction in construction of buildings due to non-availability of labour force.
- d) Reduction in construction of infrastructure projects due to economic slowdown.



34. Complete the steps of the scientific approach to problem solving by selecting the appropriate combination.



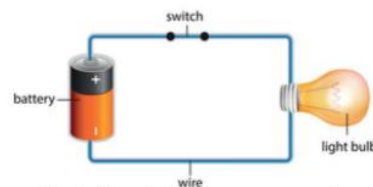
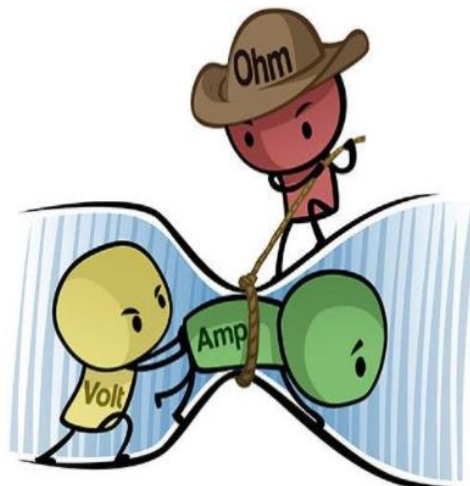
a) 1=ask a question, 2=make an observation, 3=give a hypothesis, 4=share result, 5=conduct experiment, 6=draw a conclusion

b) 1=make an observation, 2=ask a question, 3=give a hypothesis, 4=conduct experiment, 5=draw a conclusion, 6= share result

c) 1=ask a question, 2=conduct experiment, 3=give a hypothesis, 4=make an observation, 5=share result, 6=draw a conclusion

d) 1=make an observation, 2=ask a question, 3=give a hypothesis, 4=conduct experiment, 5=share result, 6=draw a conclusion

35. Study the picture and the statements below. Complete the analogy to choose the right answer.



**Q. Find the correct analogy for the following.**  
 Heart = ?  
 Blood cells = ?  
 Cholesterol = ?

I. Heart : Voltage as Blood cells : ?

## II. Heart : Voltage as Cholesterol : ?

- a) I = Resistance, II = Current
- b) I = Voltage, II = Resistance
- c) I = Current, II = Voltage
- d) I = Current, II = Resistance

36. Tick the statement which does not satisfy the current, voltage and resistance relationship.

- a) When we increase the voltage, current flow will increase.
- b) When we increase the resistance, the amount of current will reduce.
- c) When we increase the voltage, we need high resistance to protect the device.
- d) When we increase the current flow, the resistance will increase.

37. A 10 - year old boy developed a coding game based on mathematics calculation.

He found that his game is not getting popular on Google play store and App store. His game is not so popular. He also found that there are multiple similar games are there on the Google play store and App store. Now he want to update his game. Which strategy is not applicable to his goal?



- a) He should study the other games in the market.
- b) He should compare his games and identify the weakness and threats in his games.
- c) He should try to build a similar game which is available in the market.
- d) He should think about strengths and add the features which might not available in other games.

38. Let's assume you are appointed as a scientist at ISRO (Indian Space Research Organisation). You got a project in which you have to observe the planet MARS remotely. You have to get the data from the distance. You should be able to get the data on geographical features of the planet and environment data of the planet. Which space device would you prefer?

- a) Rover
- b) Rocket ship
- c) Satellite
- d) Lander

39. Which of the following device is not required to gather the following kind of data:

- Measure the gravity of other planet.
- Which provide environmental data.
- Could click the wider angle photo.

Which science instrument would not be helpful?

- a) Context camera      b) Heat sensor    c) Gravity probe    d) High gain antenna.

40. The CEV is used \_\_\_\_\_.

- a) to land astronauts on other planets.  
b) to place the satellite into the orbit.  
c) to deploy rover on the other planet.  
d) to ferry astronauts to and from space missions.



41. The 'Pragyan' from Chandrayan - 2 mission was the \_\_\_\_\_.

- a) Satellite      b) Lander      c) Rover      d) Launch rocket

42. Identify the owner country for the space agency shown below.



**I. China**



**II Europe**



**III Russia**

- a) A = IV;    B = III;    C = II;    D = I  
b) A = III;    B = IV;    C = II;    D = I  
c) A = III;    B = I;    C = II;    D = IV    **Japan**  
d) A = I;    B = III;    C = IV;    D = II

43. Which of the following is not a source of PM 10 air pollutant?

- a) Construction sites  
b) Unpaved roads  
c) Combustion of fuel containing sulphur  
d) Smokestacks

44. Complete the sentence given below:

# SWOT Analysis: The weaknesses of a product are identified in context of its (1)\_\_\_\_\_ and the strengths of other products in the market. (2)\_\_\_\_\_ are listed on the basis of the weaknesses identified. Analyzing (3)\_\_\_\_\_ of other products helps us to identify opportunities to widen our customer base and increase sales.

- Find the correct word order for the blanks (1), (2), and (3).





Threats                      II. Weaknesses                      III. Strengths

Use the word threats/weaknesses/strengths and fill the blanks 1, 2, and 3. Choose one of the options below:

- a) (1) = I,                      (2)=III,                      (3)=II
- b) (1)=III,                      (2)=II,                      (3)=I
- c) (1)=I,                      (2)=III,                      (3)=II
- d) (1)=III,                      (2)=I,                      (3)=II

45. You want to light up a 3V bulb. You have available materials. Find out the missing material.



- a) 
- b) 
- c) 
- d) 

46. Match the statements to the correct heading in the SWOT analysis.



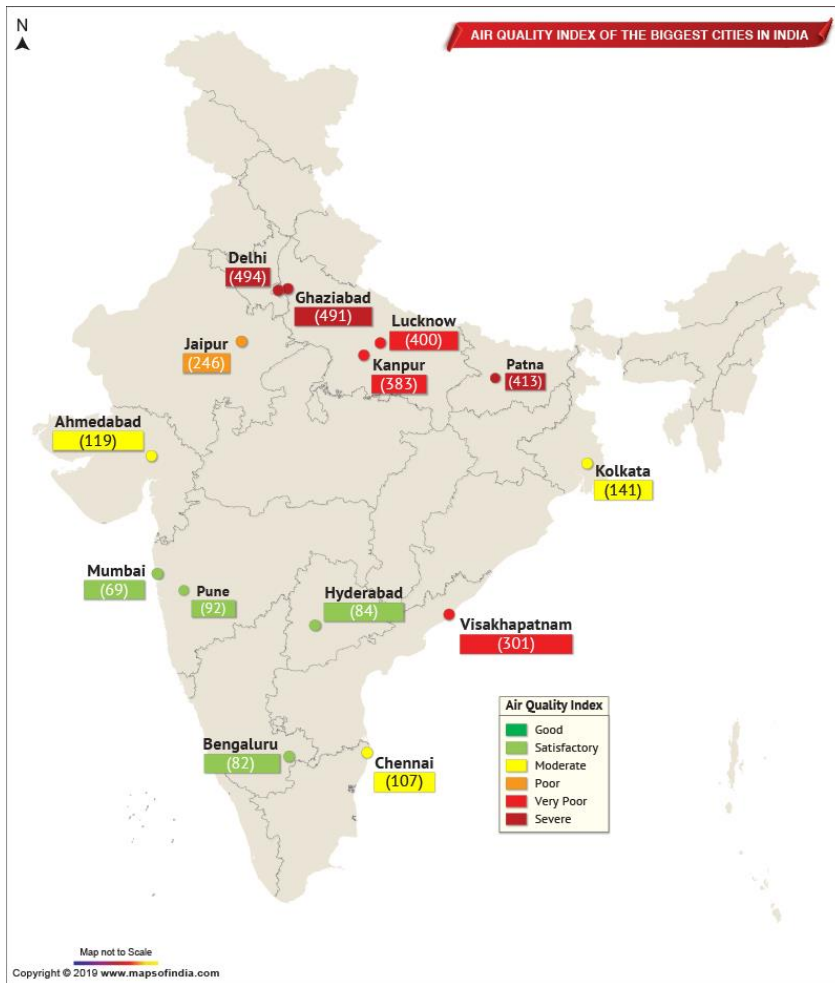
# Tesla, a car manufacturing company's marketing manager gave the following statements to his team:

- 1) One of the companies in the market has launched an electric version of one of Tesla's models.
- 2) Tesla has to update the performance in its cars to reduce the fuel consumption.
- 3) Our battery operated SUV model got high popularity and sales during the pandemic.
- 4) The marketing analysis says our base model's rate is high.

- a) 1= iv, 2=iii, 3=i, 4=ii
- b) 1=ii, 2=iv, 3=i, 4=iii
- c) 1=iii, 2=iv, 3=ii, 4=i
- d) 1=iv, 2=ii, 3=i, 4=iii



47. Study the data given. Choose the statement that represents correct interpretation of the information given in the map for AQI levels.



Choose the correct symbols to fill in the blanks:

Delhi \_\_\_ Kolkata \_\_\_ Lucknow \_\_\_ Patna \_\_\_ Pune.

- a) >, <, =, <
- b) >, >, <, <
- c) >, =, <, >
- d) >, <, <, >

48. Match the sustainability pillars with the appropriate image.

I.



A. Economic

II.



B. Social

III.



C. Environmental

- a) I=C, II=A, III=B
- b) I=A, II=C, III=B
- c) I=B, II=C, III=A
- d) I=B, II=A, III=C

49. Match the sustainability pillars with the given Organisation.



1.

A.

2.

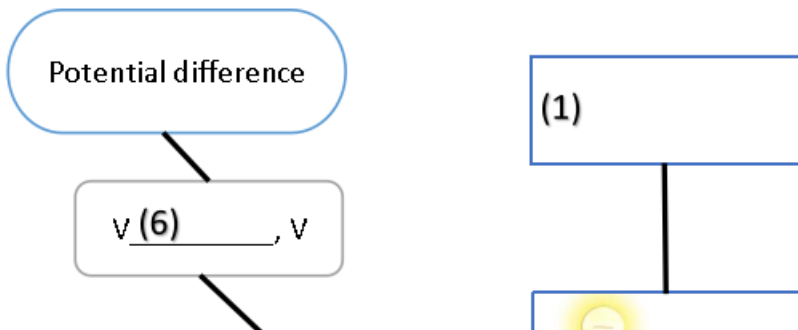
B.

1.

C.

- a) 1 = C; 2 = B; 3 = A
- b) 1 = C; 2 = A; 3 = C
- c) 1 = B; 2 = C; 3 = A
- d) 1 = B; 2 = A; 3 = C

50. Complete the partially empty G.O (Graphic Organizer) with reference to basics of electronics.



- a) 1=bulb, 2=conductor, 3=wire, 4=close, 5=switch, 6=voltage, 7=current  
 b) 1=bulb, 2=wire, 3=conductor, 4=switch, 5=close, 6=voltage, 7=current  
 c) 1=switch, 2=wire, 3=conductor, 4=bulb, 5=close, 6=voltage, 7=current  
 d) 1=switch, 2=wire, 3=conductor, 4=switch, 5=close, 6=current, 7=voltage

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**# Sample Quiz format link:**

[https://forms.office.com/Pages/ShareFormPage.aspx?id=yyqzuFjxP0GQva1EeaKKzdX\\_q6nv3alImWiyXYC7io5UOVcyUjQwU1I0NktRSk83RThUMjlfUFQ1Wi4u&sharetoken=BxMzFvcEzNW4DXYEWjAf](https://forms.office.com/Pages/ShareFormPage.aspx?id=yyqzuFjxP0GQva1EeaKKzdX_q6nv3alImWiyXYC7io5UOVcyUjQwU1I0NktRSk83RThUMjlfUFQ1Wi4u&sharetoken=BxMzFvcEzNW4DXYEWjAf)

NAME	ROLL NUMBER	SECTION
INVIGILATOR SIGN	EVALUATOR'S SIGN	MARKS OBTAINED

**KENDRIYA VIDYALAYA No.1, NARIMEDU, MADURAI.**

**PRACTICE TEST – I (TERM- I)**

**CLASS -XII**

**BIOLOGY**

**SUBJECT -**

**General instructions:**

1. The Question Paper contains three sections.
2. Section A has 24 questions. Attempt any 20 questions.
3. Section B has 24 questions. Attempt any 20 questions.
4. Section C has 12 questions. Attempt any 10 questions.
5. All questions carry equal marks.
6. There is no negative marking.

**SECTION - A**

Section – A consists of 24 questions. Attempt any 20 questions from this section.  
The first attempted 20 questions would be evaluated.

1	An organic substance that can withstand environmental extremes and cannot be degraded by any enzyme is (a) cuticle (b) sporopollenin (c) lignin (d) cellulose.
2	Geitonogamy involves (a) fertilisation of a flower by the pollen from another flower of the same plant (b) fertilisation of a flower by the pollen from the same flower (c) fertilisation of a flower by the pollen from a flower of another plant in the same population (d) fertilisation of a flower by the pollen from a lower of another plant belonging to a distant population.
3	In an angiosperm, how many microspore mother cells are required to produce 100 pollen grains? (a) 75 (b) 100 (c) 25 (d) 50
4	What is the correct sequence of sperm formation? (a) Spermatogonia, spermatozoa, spermatocytes, spermatids (b) Spermatogonia, spermatocytes, spermatids, spermatozoa (c) Spermatids, spermatocytes, spermatogonia, Spermatozoa (d) Spermatogonia, spermatocytes, spermatozoa, spermatids
5	Select the incorrect statement.

	<p>(a) LH and FSH decrease gradually during the follicular phase.</p> <p>(b) LH triggers secretion of androgens from the Leydig cells.</p> <p>(c) FSH stimulates the Sertoli cells which help in Spermiogenesis.</p> <p>(d) LH triggers ovulation in ovary.</p>
6	<p>Meiotic division of the secondary oocyte is completed</p> <p>(a) prior to ovulation                      (b) at the time of copulation</p> <p>(c) after zygote formation                  (d) at the time of fusion of a sperm with an ovum.</p>
7	<p>A female undergoing IVF treatment has blocked fallopian tubes. The technique by which the embryo with more than 8 blastomeres will be transferred into the female for further development is</p> <p>A. ZIFT              B. GIFT                      C. IUT                      D. AI</p>
8	<p>The function of copper ions in copper releasing IUDs is</p> <p>(a) they inhibit gametogenesis</p> <p>(b) they make uterus unsuitable for implantation</p> <p>(c) they inhibit ovulation</p> <p>(d) they suppress sperm motility and fertilising capacity of sperms.</p>
9	<p>Which of the following cannot be detected in a developing fetus by amniocentesis?</p> <p>(a) Down's syndrome   (b) Jaundice   (c) Klinefelter's syndrome   (d) Sex of the fetus</p>
10	<p>Which of the following pairs is wrongly matched?</p> <p>a) Starch synthesis in Pea plant: Multiple alleles</p> <p>b) ABO Blood groups: Co-dominance</p> <p>c) Flower colour in snapdragon: Incomplete Dominance</p> <p>d) T. H. Morgan : Linkage</p>
11	<p>Which of the following possess Homogametic male?</p> <p>a) Plants   b) Birds   c) Insects   d) Man</p>
12	<p>F2 generation in a Mendelian cross showed that both genotypic and phenotypic ratio are same as 1 : 2 : 1. It represents a case of</p> <p>(a) co-dominance                      (b) dihybrid cross</p> <p>(c) monohybrid cross with complete dominance</p> <p>(d) monohybrid cross with incomplete dominance.</p>

13	<p>Due to the cross between <math>TTRr \times ttrr</math> the resultant progenies show what percent of tall, red flowered plants?</p> <p>a) 50%      (b) 75%      (c) 25%      (d) 100%</p>
14	<p>When a single gene influences more than one trait it is called</p> <p>(a) codominance    (b) pleiotropy    (c) polygenic    (d) none of these.</p>
15	<p>The classical example of point mutations</p> <p>a) Hemophilia      b) Sickle cell anemia      c) Phenylketonuria    d) Cystic fibrosis</p>
16	<p>The significant aspect of reverse transcription is</p> <p>(a) the flow information from DNA to RNA  (b) the flow information from RNA to DNA  (c) the flow information from RNA to proteins  (d) both a and c</p>
17	<p>A molecule that can act as a genetic material must fulfill the traits given below, except</p> <p>(a) it should be able to express itself in the form of Mendelian characters'  (b) it should be able to generate its replica  (c) it should be unstable structurally and chemically  (d) it should provide the scope for slow changes that are required for evolution.</p>
18	<p>AGGTATCGCAT is a sequence from the coding strand of a gene. What will be the corresponding of the transcribed mRNA?</p> <p>(a) AGGUAUCGCAU    (b) UGGTUTCGCAT  (c) ACCUAUGCGAU    (d) UCCAUAGCGUA</p>
19	<p>Which of the following rRNAs acts as structural RNA as well as ribozyme in bacteria?</p> <p>(a) 5S rRNA    (b) 18S Rrna    (c) 23S rRNA    (d) 5.8S rRNA</p>
20	<p>Physical association of genes of a chromosome is called</p> <p>A)aneuploidy    B) linkage    C)polyploidy    D)duplication</p>
21	<p>Which of the following is required as inducer(s) for the expression of Lac operon?</p> <p>(a) Lactose    (b) Lactose and galactose    (c) Glucose    (d) Galactose</p>
22	<p>Seed formation without fertilisation in flowering plants involves the process of</p> <p>(a) somatic hybridisation    (b) apomixes    (c) sporulation    (d) budding.</p>
23	<p>The part of Fallopian tube closest to the ovary is</p> <p>(a) isthmus      (b) infundibulum      (c ) cervix      (d) ampulla.</p>
24	<p>Withdrawal of which of the following hormones is the immediate cause of menstruation?</p> <p>(a) Progesterone    (b) Estrogen    (c) FSH    (d) FSH-RH</p>

### SECTION - B

**Section - B consists of 24 questions (Sl. No.25 to 48). Attempt any 20 questions from this section. The first attempted 20 questions would be evaluated.**

	<p>Question No. 25 to 28 consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:</p> <p>A. Both A and R are true and R is the correct explanation of A B. Both A and R are true and R is not the correct explanation of A C. A is true but R is false D. A is False but R is true</p>
25	<p>Assertion: In human beings ovum is released from ovary at ootid stage Reason: The secondary oocyte divides into unequal daughter cells, a large ootid and a small polar body</p>
26	<p>Assertion: Use of condom is a safeguard against AIDS and sexual diseases besides checking pregnancy. Reason: Certain contraceptives are planted under the skin of the upper arm to prevent pregnancy</p>
27	<p>Assertion: It is not possible for human parents heterozygous for skin colour to have children darker or lighter than themselves. Reason: Human skin colour is controlled by a single pair of alleles.</p>
28	<p>Assertion: The genetic code is degenerate. Reason: Most amino acids are coded by more than one codon.</p>
29	<p>Choose the correct order of stages of development of a dicotyledonous embryo.</p> <p>a) Zygote → embryo → globular embryo → heart shaped embryo b) Zygote → globular embryo → mature embryo c) Embryo → proembryo → mature embryo → globular embryo d) Zygote → proembryo → globular embryo → mature embryo</p>
30	<p>Match the following RNA polymerase with their transcribed products :</p> <p>1. RNA polymerase I    (i) tRNA 2. RNA polymerase II    (ii) rRNA 3. RNA polymerase III    (iii) hnRNA</p> <p>Select the correct option from the following :</p> <p>(a) 1-i, 2-iii, 3-ii (b) 1-i, 2-ii, 3-iii (c) 1-ii, 2-iii, 3-i (d) 1-iii, 2-ii, 3-i</p>
31.	<p>Match the following genes of the Lac operon with their respective products.</p>

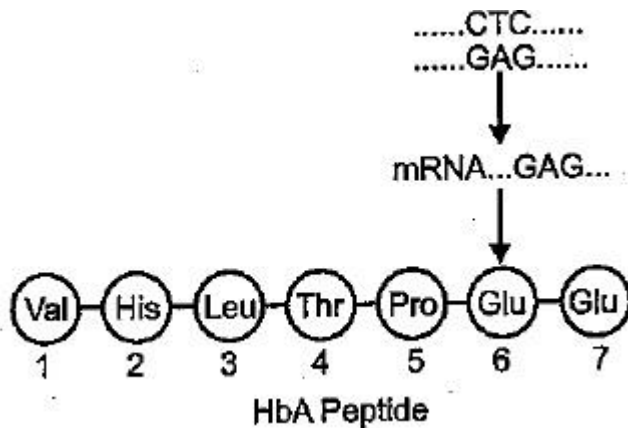


- (A) i gene (i) b-galactosidase  
 (B) z gene (ii) Permease  
 (C) a gene (iii) Repressor  
 (D) y gene (iv) Transacetylase

Select the correct option.

- (A) (B) (C) (D)  
 a) (iii) (iv) (i) (ii)  
 b) (i) (iii) (ii) (iv)  
 c) (iii) (i) (ii) (iv)  
 d) (iii) (i) (iv) (ii)

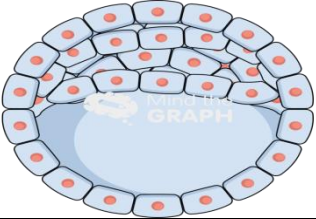

A relevant portion of  $\beta$  chain of haemoglobin of a normal human is as follows

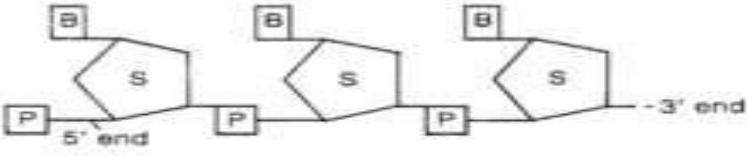


32. The codon for the sixth amino acid is GAG. The sixth codon GAG changes to GAA as a result of mutation X and into GUG as a result of mutation Y.

Which of the following is the incorrect statement?

- A. Mutation X causes no change in shape of red blood cells  
 B. Mutation Y causes change in shape of red blood cells  
 C. both mutations X and Y causes change in shape of red blood cells  
 D. Mutation Y does not cause change in shape of red blood cells

33	<p>Identify the human developmental stage shown as well as the related right place of its occurrence in a normal pregnant woman and select the right option for the two, together.</p> 								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 35%;">Developmental stage</th> <th>Site of occurrence</th> </tr> </table>		Developmental stage	Site of occurrence						
Developmental stage	Site of occurrence								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%; padding: 5px;">(a) Late morula –</td> <td style="padding: 5px;">Middle part of Fallopian tube</td> </tr> <tr> <td style="padding: 5px;">(b) Blastula -</td> <td style="padding: 5px;">End part of Fallopian tube</td> </tr> <tr> <td style="padding: 5px;">(c) Blastocyst –</td> <td style="padding: 5px;">Uterine wall</td> </tr> <tr> <td style="padding: 5px;">(d) 8-celled morula –</td> <td style="padding: 5px;">Starting point of Fallopian tube</td> </tr> </table>		(a) Late morula –	Middle part of Fallopian tube	(b) Blastula -	End part of Fallopian tube	(c) Blastocyst –	Uterine wall	(d) 8-celled morula –	Starting point of Fallopian tube
(a) Late morula –	Middle part of Fallopian tube								
(b) Blastula -	End part of Fallopian tube								
(c) Blastocyst –	Uterine wall								
(d) 8-celled morula –	Starting point of Fallopian tube								
34	<p>If a haemophilic woman marries a normal man,</p> <p>(a) all their children will be normal.          (b) all their sons will be haemophilic.          (c) all their daughters will be haemophilic.          (d) 50% sons and 50% daughters will be haemophilic.</p>								
35	<p>which of the following statement is not true</p> <p>a. Tapetum helps in the dehiscence of anther          b. Exine of pollen grains are made of sporopollinin          c. Pollen grains of many species causes allergy          d. Pollen grains are stored in liquid nitrogen.</p>								
36	<p>Identify the given plant that come to the surface of water to collect pollen grains</p>  <p>a) Vallisneria,    b) Water lily,    c) Lotus,    d) Hydrilla</p>								
37	<p>Gynaecomastia is a common feature seen in:</p> <p>a) Down's syndrome                      b) Turner's syndrome          c) Cystic fibrosis                          d) Klinefelter's syndrome</p>								
38	<p>Expand MTP</p> <p>A) Mechanical Transfer of Pollen    B) Medical Termination Parturition          C) Medical Termination of Pregnancy    D) Maternally Transmitted Pathogen</p>								

39	<p>Who experimentally proved semi conservative model of DNA replication</p> <p>A. Meselson &amp; Stahl    B. Frederic Griffith    C. Watson &amp; Crick    D. Chargaff</p>
40	<p>Which was the last human chromosome to be completely sequenced?</p> <p>(a) Chromosome 1   (b) Chromosome 11   (c) Chromosome 21   (d) Chromosome X</p>
41	<p>If the base sequence of a codon in mRNA is 5' – AUG – 3' the sequence of tRNA pairing with it must be</p> <p>(a) 5' – UAC – 3'    (b) 5' – CAU – 3'    (c) 5'-AUG – 3'    (d) 5' – GUA – 3'</p>
42	<p></p> <p>Fig. 257 Polynucleotide chain. General structure. P = phosphate, S = ribose or deoxyribose sugar, B = one of four bases.</p> <p>In DNA strand, the nucleotides are linked together by</p> <p>(a) Glycosidic bonds                      (b) phosphodiester bonds (c) peptide bonds                            (d) hydrogen bonds.</p>
43	<p>The three codons which result in the termination of polypeptide chain synthesis are</p> <p>(a) UAA, UAG, GUA                      (b) UAA, UAG, UGA (c) UAA, UGA, UUA                      (d) UGU, UAG, UGA</p>
44	<p>Mature Graafian follicle is generally present in the ovary of a healthy human female around</p> <p>(a) 5-8 day of menstrual cycle    (b) 11-17 day of menstrual cycle (c) 18-23 day of menstrual cycle    (d) 24-28 day of menstrual cycle.</p>
45	<p>Which among the following has 23 chromosomes?</p> <p>(a) Spermatogonia    (b) Zygote    (c) Secondary oocyte    (d) Oogonia</p>
46	<p>Spot the odd one out from the following structures with reference to the male reproductive system.</p> <p>(a) Rate testis    (b) Epididymis    (c) Vasa efferentia    (d) Isthmus</p>
47	<p>Both chasmogamous and cleistogamous flowers are present in</p> <p>(a) Helianthus   (b) Commelina   (c) Rosa   (d) Gossypium</p>

48	<p>If an endosperm cell of an angiosperm contains 24 chromosomes, the number of chromosomes in each cell of the root will be</p> <p>(a) 8    (b) 4    (c) 16    (d) 24</p>
	<p style="text-align: center;"><b><u>SECTION – C</u></b></p> <p><b>Section-C consists of one case followed by 6 questions linked to this case (Q.No.49 to 54). Besides this, 6 more questions are given. Attempt any 10 questions in this section. The first attempted 10 questions would be evaluated. The first attempted 10 questions would be evaluated.</b></p>
CASE	<p>The process of comparison of DNA from different sources to establish the identity is called DNA fingerprinting. DNA fingerprinting involves identifying differences in some specific regions in DNA sequence called as repetitive DNA. The DNA is isolated from the available sample. Each type of sample has a specific protocol for isolation. DNA fingerprinting is widely used in forensics; It forms the basis of paternity testing.</p>
49.	<p>One of the most frequently used techniques in DNA fingerprinting is</p> <p>(a) VNTR    (b) SSCP    (c) SCAR    (d) AFLP.</p>
50	<p>What is that forms the basis of DNA finger-printing?</p> <p>(a) The relative proportions of purines and pyrimidine's in DNA.</p> <p>(b) The relative difference in the DNA occurrence in blood, skin and saliva.</p> <p>(c) The relative amount of DNA in the ridges and grooves of the fingerprints.</p> <p>(d) Satellite DNA occurring as highly repeated short DNA segments.</p>
51	<p>DNA fingerprinting refer to</p> <p>(a) molecular analysis of profiles of DNA samples</p> <p>(b) analysis of DNA samples using imprinting devices</p> <p>(c) techniques used for molecular analysis of different specimens of DNA</p> <p>(d) techniques used for identification of fingerprints of individuals.</p>
52	<p><i>Satellite DNA is important because it</i></p>

	<p>(a) does not code for proteins and is same in all members of the population</p> <p>(b) codes for enzymes needed for DNA replication</p> <p>(c) codes for proteins needed in cell cycle</p> <p>(d) Shows high degree of polymorphism in population and also the same degree of polymorphism in an individual, which is heritable from parents to children.</p>
53	<p>How is Repetitive DNA is separated from bulk genomic DNA</p> <p>a) sedimentation                      b) centrifugation</p> <p>c) by agitation                      d) density gradient centrifugation</p>
54	<p>The major peak formed during density gradient centrifugation indicates</p> <p>a) VNTR    b) Satellite DNA    c) bulk DNA    d) Probe DNA</p>
55	<p>A gene is said to be dominant if</p> <p>(a) it expresses its effect only in homozygous state</p> <p>(b) it expresses its effect only in heterozygous condition</p> <p>(c) it expresses its effect both in homozygous and heterozygous condition</p> <p>(d) it never expresses its effect in any condition.</p>
56	<p>A colour blind girl is rare because she will be born only when</p> <p>(a) her mother and maternal grandfather were colour blind</p> <p>(b) her father and maternal grandfather were colour blind</p> <p>(c) her mother is colour blind and father has normal vision</p> <p>(d) Parents have normal vision but grandparents were colour blind.</p>
57	<p>Which one of the following does not follow the central dogma of molecular biology?</p> <p>(a) Pea    (b) Mucor    (c) Chlamydomonas    (d) HIV</p>
58	<p>Which one of the following is wrongly matched?</p> <p>(a) Transcription - Writing information from DNA to tRNA.</p> <p>(b) Translation - Using information in mRNA to make protein.</p> <p>(c) Repressor protein - Binds to operator to stop enzyme synthesis.</p> <p>(d) Operon - Structural genes, operator and promoter.</p>
59	<p>Name the inborn error of metabolism that is inherited as an Autosomal recessive trait, The disease is characterized by the absence of phenylalanine hydroxylase in affected individual</p> <p>a) Thalassemia    b) Phenyl ketonuria    c) Sickle cell anemia    d) Colour blindness</p>
60	<p>Which of the following methodology is used to identify all the genes that are expressed</p>

as RNA in Human Genome Project (HGP)?

- a) Sequence Annotation      b) Expressed Sequence Tags  
c) Karyotyping                d) Ammonification.

## KENDRIYA VIDYALAYA KAUSANI

FIRST PERIODIC TEST (2021-22)

SUB- BIOLOGY

CLASS- XI

TIME-90Minutes

Max. Marks- 40

### General instructions:

- (i) There are a total of 40 questions and 3 sections in the question paper.
- (ii) All questions are of multiple-choice types. Each question carries 1 mark
- (iii) Section A contains 28 questions (Q1 to Q28).
- (iv) Section B contains 4 questions. All questions are of assertion and reason types (Q29 to Q32)
- (v) Section C contains two questions of case study (Q33 to Q40)
- (vi) All questions are compulsory.

## SECTION A

1. Genus represents:
  - A. An individual plant or animal
  - B. A collection of plants or animals
  - C. Group of closely related species of plants or animals
  - D. None of these
2. Vegetative reproduction in algae is by?
  - A. budding
  - B. cutting
  - C. layering
  - D. fragmentation
3. The food is stored in red algae as Floridian starch which is very similar to
  - A. protein and starch
  - B. fat and amylopectin
  - C. amylopectin and glycogen
  - D. glycogen and fat

4. A colonial alga is
- A. volvox
  - B. Chlamydomonas
  - C. Ulothrix
  - D. spirogyra
5. Autotrophic thallophytes are called as:
- A. Fungi
  - B. lichens
  - C. Algae

- D. Microbes
6. Which of the plant group need both land and water to complete their life cycle:
- A. Bryophyta
  - B. Thallophyta.
  - C. Angiosperms.
  - D. Gymnosperms
7. Metabolism is defining property because:
- A. No non-living objects exhibits metabolism
  - B. Some non-living objects show metabolism
  - C. It takes place in sort period of time in body
  - D. It is only involve only anabolic reaction
8. The scientific term for convenient categories is called?
- A. Taxa
  - B. Classification
  - C. Nomenclature
  - D. Taxonomy
9. ICBN stands for:
- A. International code of botanical nomenclature
  - B. International congress of biological names
  - C. Indian code of botanical nomenclature
  - D. Indian congress of biological names
10. The basic smallest unit of classification is :
- A. Genus
  - B. Species
  - C. Order
  - D. All of the above
11. Bacteria are the sole members of kingdom:
- A. Fungi
  - B. Plantae
  - C. Animalia
  - D. Monera
12. One of the major components of cell wall of most fungi is:
- A. Cellulose.
  - B. Hemicellulose.
  - C. Chitin.
  - D. Peptidoglycan.
13. Which of the following statements is wrong?
- A. Eubacteria are also called false bacteria
  - B. Phycomycetes are also called algal fungi
  - C. Cyanobacteria are also called blue green algae
  - D. Golden algae are also called blue called desmids
14. Methanogens belongs to?



- A. Eubacteria
  - B. Archeobacteria
  - C. Dinoflagellates
  - D. Slime moulds
15. The size of pleuropneumonia like organism ?(PPLO) is :
- A. 0.02  $\mu\text{m}$
  - B. 1-2 $\mu\text{m}$
  - C. 10-20  $\mu\text{m}$
  - D. 0.1 $\mu\text{m}$
16. Heterocyst is a structure which is associated with:
- A. Reproduction
  - B. Respiration
  - C. Nitrogen fixation
  - D. Locomotion
17. In algae zoospores are produced due to?
- A. Vegetative reproduction
  - B. Asexual reproduction.
  - C. Sexual reproduction
  - D. All of the above
18. These are flowering plants:
- A. Algae
  - B. Bryophytes
  - C. Pteridophytes
  - D. Angiosperms
19. Euglena belongs to kingdom?
- A. Monera
  - B. Protista
  - C. Plantae
  - D. Animalia
20. In which group of fungi sexual reproduction is not found:
- A. Zygomycetes
  - B. Ascomycetes
  - C. Basidiomycetes
  - D. Fungi imperfecti
21. The branched conidiophores are found in :
- A. Agaricus
  - B. Yeast
  - C. Penicillium
  - D. Rhizopus
22. Red algae have green chlorophyll „a“ that is like the one present in :
- A. Green algae
  - B. Cyanobacteria

- C. Mosses
  - D. Higher plants
23. Kelp is a kind of:
- A. An aquatic plant
  - B. A moss
  - C. An algae
  - D. A fungus
24. during gametic meiosis?
- A. Zygote is diploid
  - B. Zygote is haploid
  - C. Zygote divides meiotically
  - D. Gametes divide meiotically
25. Diatoms have left behind large amount of cell wall deposits in their habitat, this accumulation over billions of years is referred to as ?
- A. Crystal earth
  - B. Suspended soil
  - C. Colloidal material
  - D. Diatomaceous earth
26. These are the “chief producers” in the oceans:
- A. Gonyaulax
  - B. Euglenoid
  - C. Diatoms
  - D. Slime moulds
27. The group bryophyte includes
- A. Liverworts and ferns
  - B. Liverworts and club moss
  - C. Moss and ferns
  - D. Liverworts and moss
28. Archeobacteria are considered to be ancient bacteria because they are
- A. Autotrophs
  - B. Heterotrophs
  - C. Able to survive in extreme conditions
  - D. Unicellular

SECTION: B

The following questions consist of two statements, one labelled as Assertion (A) and the other labelled the reason (R). Examine these two statements carefully and select the most appropriate answer codes

29. Assertion: After fertilization, zygote develop into embryo in algae Reason: sexual reproduction in algae occurs through conjugation
- A. Both (A) and (R) are true and (R) is the correct explanation of (A)
  - B. Both (A) and (R) are true and (R) is not the correct explanation of (A)
  - C. (A) is true and (R) is false

D. Both (A) and (R) are false

30. Assertion: Key is the taxonomical aid used for identification of plants and animals based on the similarities and dissimilarities

Reason: floras, manuals monographs and catalogues are the recording descriptions which help in correct identification.

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

B. Both (A) and (R) are true and (R) is not the correct explanation of (A)

C. (A) is true and (R) is false

D. Both (A) and (R) are false

31. Assertion: bryophytes are claimed to be terrestrial amphibians

Reason: they require an external layer of water on the soil surface for their existence

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

B. Both (A) and (R) are true and (R) is not the correct explanation of (A)

C. (A) is true and (R) is false

D. Both (A) and (R) are false

32. Assertion: each group of algae show predominance of one pigment Reason: the algae are classified on this basis

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

B. Both (A) and (R) are true and (R) is not the correct explanation of (A)

C. (A) is true and (R) is false

D. Both (A) and (R) are false

### SECTION: 3

Read the paragraphs and answer the questions (Q.33 to Q.40) given below: Paragraph:1

There are about 2000 species of brown algae, which range from microscopic filaments to large species. Nearly all are marine except three genera. The plant body is differentiated into holdfast, frond and stipe. Though they are non-vascular plants they have food-conducting tissues very similar to higher plants that allow the food to be carried from frond to the holdfast. the cell wall is cellulosic which also has an outer colloidal covering of align consisting of a mixture of polysaccharides, collectively called phycocolloids.

33. Holdfast is:
- Attached the algae to the substratum
  - Large leaf like structure
  - A stalk like structure
  - None of the above
34. Fronds are:
- Photosynthetic organ
  - Food conducting tissues
  - An outer covering
  - None of these
35. Brown algae store food as complex carbohydrates in the form of :
- fucoxanthin
  - Mannitol
  - Align
  - Cellulose
36. The brown algae owe their color to the golden brown pigment called :
- Fucoxanthin
  - Phycoerythrin
  - Chlorophyll
  - None of these

Paragraph: 2

Bacteria are the most abundant microorganism on earth. They are unicellular and prokaryotic organisms which are classified into two classes : archaeobacteria and eubacteria . Most of them have a rigid cell wall. They can survive in extreme conditions such as absence of oxygen, high salt concentration, acidic pH, very high temperature and show the most extensive metabolic diversity i.e. follow various modes of nutrition. some are autotrophic (could be photoautotrophs or chemoautotrophs). A large majority of them are heterotrophs and act as decomposers and mineralizers.

37. Eubacteria referred to as?
- True bacteria
  - Oldest bacteria
  - Both a and b
  - None of these
38. thermoacidophiles are found in ?
- Gut of ruminant animals
  - In hot Sulphur springs at high temperature
  - Extreme salty areas
  - None of these

39. Archaeobacteria are able to survive in extreme conditions.
- A. due to the presence of a unique cell wall that differs from other bacteria.
  - B. because they are supposed to be the ancient bacteria.
  - C. because they are supposed to be the true bacteria.
  - D. None of these.
40. Cell wall of bacteria contains a material called?
- A. Murein
  - B. Protein
  - C. Polysaccharides
  - D None of these

HOLIDAY HOMEWORK ENGLISH XI , XII

1. Revise syllabus for PRE END TERM 1, AND PT 1
2. Complete work in notebooks
3. Practice 20 MCQS from each chapter
4. Practice writing skills

HOLIDAY HOMEWORK FOR AUTUMN BREAK

CLASS 12<sup>th</sup> (ACCOUNTANCY)

1. Project work to be done on ratio analysis.
2. Revise complete syllabus with theory.
3. Solve 15 MCQ from each chapter.
4. practice and solve five question papers and post it on google classroom.
5. Preparation to be done for pre – 1<sup>st</sup> term.

Class 12<sup>th</sup> (Business studies)

1. Project work to be done on one topic (principles of management, business environment, and marketing management)
2. Revise complete syllabus.
3. Solve 15 MCQ from each chapter.

Assertion reasoning

Stand alone question

Case based question

4. practice and solve five question papers and post it on google classroom.
5. Preparation to be done for pre – 1<sup>st</sup> term.

#### HOLIDAY HOMEWORK FOR AUTUMN BREAK

##### CLASS 11<sup>th</sup> (ACCOUNTANCY)

1. Complete your project work.
2. Revise complete syllabus with theory.
3. Solve 15 MCQ from each chapter.
4. practice and solve ten questions from each chapter and post it on google classroom.
5. Preparation to be done for PT 1

#### HOLIDAY HOMEWORK FOR AUTUMN BREAK

##### CLASS 11<sup>th</sup> (Business studies )

1. Complete your project work on banking services.
2. Revise complete syllabus.
3. Solve 15 MCQ from each chapter.

Assertion reasoning  
Stand alone question  
Case based question  
4. Preparation to be done for PT 1

(monika Verma)





