

BISHOP SCOTT BOYS' SCHOOL

(Affiliated to CBSE, New Delhi) Affiliation No.: 330726, School Campus: Chainpur, Jaganpura,
By-Pass, Patna 804453.

Phone Number: 7061717782, 9798903550. ,

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REVISION PRACTICE ASSIGNMENT (RPA)

SUBJECT-English

SESSION-2020-21

CLASS- XII

TOPICS:

The Enemy

A Thing of Beauty

MCQ

[1x5=5 Marks]

Q.1 Why did Dr Sadao treat the soldier when he was from enemy's nationality?

- A) He was a doctor
- B) It was against his professional ethics
- C) as a doctor he could not let anyone die
- D) All

Q 2. Why did the General not pass orders to arrest Dr. Sadao for giving space to a?

- A) because he trusted him
- B) because he needed him
- C) General was not in good health and needed his services
- D) None

Q 3. Seeing the messenger, what was Hana's reaction?

- A) She got frightened
- B) she thought he has come to arrest her husband
- C) General's man
- D) All these

Q4. Who is Endymion (A Thing of Beauty)?

- A) a worker
- B) an office boy
- C) a young child
- D) a young shepherd

Q5. Which things cause suffering to human beings?

- A) lack of virtues and inhuman acts
- B) withering flowers
- C) blooming flowers
- D) flowing streams

One word/One Sentence Answer questions:

[1x5=5 Marks]

Q.1 Who is the poet of A Thing of Beauty?

Q.2 What removes 'the pall from our dark spirits'?

Q. 3 What are the lovely tales in a thing of beauty?

Q. 4 Who was general Takima in the enemy?

Q. 5 How did Sadao meet Hana?

Short Answer type questions:

[2x3=6 Marks]

1. Why was Dr Sadao kept in Japan and not sent abroad with the troops?
2. What kind of joy does a beautiful thing provide?
3. What is Grandeur of Dooms?

Long Answer type question:

1. How did Dr. Sadao rise above narrow prejudices of race and country to help a human being in need? **[4 Marks]**

REVISION PRACTICE ASSIGNMENT (RPA)

SUBJECT- MATHEMATICS

SESSION-2020-21

CLASS-12

TOPIC: APPLICATIONS OF DERIVATIVES

Section A

{1×5 = 5}

1. The sides of an equilateral triangle are increasing at the rate of 2cm/sec. How far is the area increasing when the side is 10 cms?
2. The side of a square is increasing at the rate of 0.01cm/sec .Find the rate of increase of its perimeter.
3. For the function $y = x^2$,if $x = 10$ and $\Delta x = 0.1$. Find Δy
4. If $y = \log_e x$, then find Δy when $x = 3$ and $\Delta x = 0.03$
5. Find the approximate value of $\sqrt{26}$.

Section B{1×5 = 5}

6. If there is an error of 2% in measuring the length of a simple pendulum , then percentage error in its period is
7. If an error of k% is made in measuring the radius of a sphere , then percentage error in its volume is
8. The value of "a" for which $f(x) = a^x$ is increasing on R is
9. The value of a for which the function $f(x) = \sin x - ax + 4$ increases on R are.....
10. The maximum value of $f(x) = x^{1/x}$ is

Section C{2×3 = 6}

11. Find two numbers whose sum is 24 and whose product is as large as possible.
12. Find the intervals in which $f(x) = (x + 1)^3(x - 3)^3$ is increasing or decreasing .
13. Find the value of k for which $f(x) = kx^3 - 9kx + 3$ is increasing on R.

Section D{4×1 = 4}

14. AB is a diameter of a circle and C is any point on the circle .Show that the area of Δ is maximum ,when it is isosceles.



REVISION PRACTICE ASSIGNMENT (RPA)

SUBJECT- BIOLOGY

SESSION-2020-21

CLASS- XII

TOPIC: PRINCIPLES OF INHERITANCE AND VARIATION

SECTION –I : Objective type questions. (MCQ Types) 1x 5=5

1. If a hybrid expresses a character, it is called _____
 - a. Epistasis
 - b. Dominant
 - c. Co-dominant
 - d. Recessive
2. A plant having the genotype AABbCC will produce _____ kinds of gametes
 - a. 5
 - b. 4
 - c. 3
 - d. 2
3. Colour blindness is an _____ linked recessive trait
 - a. Z chromosome
 - b. Y chromosome
 - c. X chromosome
 - d. None of the above
4. In most species, mitochondrial DNA is passed down from
 - a. DNA
 - b. Mother and Father
 - c. Father
 - d. Mother
5. Where are the genes for cytoplasmic male sterility in plants located?

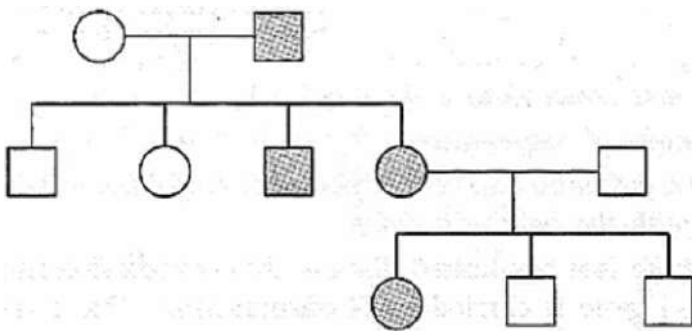


- Chloroplast genome
- Mitochondrial genome
- Cytosome
- None of the above

SECTION – II : Answer in one word or sentence.

1x5=5

- What is the cross known as when the progeny of F1 and a homozygous recessive plant is crossed?
- The phenotypic and genotypic ratios in F2 generation are same in a certain kind of inheritance. Mention the kind of inheritance involved.
- Study the given pedigree chart and answer the question that follow:



Give the genotypes of the parents shown in generation I and their IInd child shown in generation II and the first grandchild shown in generation III.

- A homozygous tall pea plant with green seeds is crossed with a dwarf pea plant with yellow seeds. What would be the phenotype and genotype of F1 generation?
- Name the base change and amino acid change, responsible for sickle cell anaemia.

SECTION – III: Short answer type questions.

2x3=6

- Why is haemophilia a disease that is more commonly seen in males?
- What are the criteria for selecting organisms to perform crosses to study the inheritance of a few traits?
- How far are the genes and environment responsible for the expression of a particular trait?

SECTION – IV : Long answer type question.

4x1=4

- Describe the individuals with the following chromosomal abnormalities:
 - Trisomy at chromosome 21
 - XXY



c. XO



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REVISION PRACTICE ASSIGNMENT (RPA)

SUBJECT- Chemistry

SESSION-2020-21

CLASS-XII

TOPIC: CHAPTER -Surface Chemistry

Answer the following questions as instructed :-. F.M : 20

SECTION_I : Objective Questions : MCQ Types

1 X 5 = 5

1. Adsorption is always

(a) endothermic

(b) exothermic

(c) both

(d). none

2. The chemical adsorption is

(a) specific

(b) fusion

(c) non specific

(d) none

3. the type of catalysis which have same phase is

(a) Hetroleptic

(b) initial concentration of reactants

(c) homogeneous

(d) enthalpy

4. Adsorption increase with surface area

(a) physical

(b) chemical

(c) Both

(d) none

5. Conversion of colloid into precipitate is

(a) peptization

(b) both

(c) precipitation

(d) none

SECTION_II : Objective Questions : Answer on one word only 1 X 5 = 5

6. The temperature at which micelle form is called_____

7 The solution which is more stable is

8. liquid liquid colloid is _ called_____

9. The scattering of light when passing through colloidal solution is called

10. The movement of colloid in presence of electric field towards opposite electrode is, _____

SECTION _III : Short Answer Type Questions

2 X 3 = 6

11. Explain micelle

12. Why Delta is formed

13. How artificial rain take place?

SECTION _IV : Long Answer Type Question

1 X 4 = 4

14. Explain the difference between lyophobic and lyophilic sold.

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Sarvada
Sarva shreshth
HOLISTIC DEVELOPMENT

REVISION PRACTICE ASSIGNMENT (RPA)

SUBJECT- PHYSICS

SESSION-2020-21

CLASS-XII

TOPIC: CHAPTER 06 ELECTROMAGNETIC INDUCTION

Answer the following questions as instructed :- F.M : 20

SECTION_I : Objective Questions : MCQ Types

1 X 5 = 5

1. Faraday's laws are consequence of the conservation of

(a) charge

(b) energy

(c) magnetic field

(d) both (b) and (c)

2. two identical coaxial queries P and Q carrying equal amount of current in the same direction are brought near. The current in in

(a) P increases while in Q decreases

(b) Q increases while in P decreases

(c) both P and Q increases

(d) both P and Q decreases

3. direction of current induced in a wire moving in a magnetic field is found using

(a) Fleming's left hand rule

(b) Fleming's right hand rule

(c) Ampere's rule

(d) right hand clasp rule

4. Lenz law is consequence of the law of conservation of

(a) charge

(b) energy

(c) induced EMF

(d) induced current

5. a solenoid is connected to a battery so that the steady current flows through it. If an iron core is inserted into the solenoid the current will

(a) increase

(b) decrease

(c) remains same

(d) first increase and then decrease

SECTION_II : Objective Questions : Answer on one word only 1 X 5 = 5

6. Define Faraday's law of electromagnetic induction.

7. Define lenz law.

8. write the mathematical formula for the motional EMF.

9. Write the SI unit of inductance.

10. name the device which works on the principle of electromagnetic induction.

SECTION _III : Short Answer Type Questions

2 X 3 = 6

11. What do you mean by Eddy current. How can we minimise Eddy current?

12. Define self induction and mutual induction. Write the mathematical formula.

13. Why two magnetic field lines do not intersect each other?

SECTION _IV : Long Answer Type Question

1 X 4 = 4

14. Find expression for the mutual inductance for two long coaxial solenoids.

REVISION PRACTICE ASSIGNMENT (RPA)

SUBJECT –INFORMATICS PRACTICES

SESSION-2020-21

CLASS-XII

TOPIC:CSV WITH DATAFRAME AND PANDAS-II

1. Answer in one word:

5*1=5

- Name the functions you can use to iterate over dataframes.
- Function giving descriptive statistics on a dataframe.
- Data summarizing technique to rearrange the columns and rows
- Name the function to create histogram from a Dataframe
- Name the functions you can use for filling missing data.

2. State True or False:

5*1=5

- functions pivot() and pivot_table() are identical functions
- functions sum() and cumsum() produce the same result.
- Python integer datatype can store NaN values.
- IsNull() is to detect missing values in a pandas object.
- Cumin() gives cumulative minimum of values.

3. Answer the following questions:

3*2=6

- What is csv file?
- What is dataframe object of python pandas?
- Write python code to Create a dataframe with name and dob of three person and store this dataframe to a csv file.

4. write there code :

4

- Write python code to read csv file into dataframe and then display the contents of this dataframe.



REVISION PRACTICE ASSIGNMENT (RPA)

SUBJECT- PHYSICAL EDUCATION

SESSION-2020-21

CLASS- XII

TOPIC: Children and Woman in Sports

TOTAL MARKS =20

Q1. Multiple Choice Questions . (1 x 5 = 5)

A: Which of the following is not a factor influencing motor development of a child?

1. Sensory Integration 2. Muscle tone 3. Confidence 4. Endurance

B: The precaution of should be followed if you have the postural deformity of round shoulders.

1. Avoiding wearing of tight fitting clothes 2. Keeping the body straight while carrying weights
3. Taking a balanced diet 4. Not putting extra weight on the leg muscles

C: The third stage of motor development in a child in between the ages of years and Years.

1. 12, 16 2. 2, 6 3. 1, 2 4. None of these

D: Fine motor development uses the muscles for carrying out activities.

1. Smaller, posture and balance maintenance 2. Larger, Posture and balance maintenance
3. Larger, Precise 4. Smaller, Precise

E : Ball handling is an activity that starts in a child in the development stage called

1. Infanthood 2. Early Childhood 3. Middle Childhood 4. Late Childhood

Q 2 . Very Short Questions Answer (1 x 5 = 5)

Question i: Define Motor Development.

Question ii: Write any two benefits of regular exercise.

Question iii: Name any two postural deformities.

Question iv: What are the types of motor skills?

Question v: What do you mean by Bulimia?

Q3. Short Question Answer (2 x 3 = 6)

Question i: Explain the development characteristics during infancy.

Question ii: Describe the types of motor skills.

Question iii: Write about the deformities of spinal curvature.

Q 4. Long Answer Type Question (4 x 1 = 4)

Question i: Define motor development during childhood.

or

Question ii Explain "Flat Foot" and "Knock Knees" and also suggest corrective measures for both postural deformities.

or

Question iii: Suggest five exercise as corrective measures for round shoulders and Kyphosis.