

**KRISHNAGAR ACADEMY**  
**HALF-YAERLY (PHASE-II) EXAMINATION**  
**CLASS-VIII**  
**SUBJECT-2<sup>ND</sup> LANGUAGE (BENGALI)**  
**FULL MARKS: 50**

১। যে কোন একটি বিষয় বেছে নিয়ে একটি রচনা লেখ, (কম বৈশি ২৫০ শব্দের মধ্যে লিখবে) (২৫)

ক) বাংলার উন্নয়ন

খ) ছাত্রজীবনের দায়িত্ব ও কর্তব্য

২। তোমার দিদির, বিয়ে, তোমার বন্ধুকে সেই অনুষ্ঠানে নিমন্ত্রণ জানিয়ে একটি চিঠি লেখ, (কম বৈশি ২২০ শব্দের মধ্যে লিখবে), (৭)

৩। নিম্নলিখিত শব্দগুলির স্মৃতি বিদ্রুপ কর :- (৮×১)=৮

(ক) পরিদ্রুপ

(ঙ) এগনাম

(গ) দিগন্ত

(চ) উল্লেখ

(গ) চলচ্চিত্র

(ছ) পদ্য

(ঘ) উদ্ভূত

(ঐ) কবিতা

নিম্নলিখিত শব্দগুলির উত্তর দাও।

৪। 'দাঁড়ায়ে তোমার কাছে প্রাচীন ব্রাহ্মণ'—

(ক) কার লেখা, কোন কবিতার অংশ এটি?

(খ) 'তোমার' বলতে কার কথা বোঝান হয়েছে?

(গ) প্রাচীন ব্রাহ্মণ কে এবং তারা কোথায় দাঁড়িয়ে আছেন?

(ঘ) ব্রাহ্মণটিকে কার সঙ্গে তুলনা করা হয়েছে এবং

তারা তার আগল পরিয়ে দাও।

(২+২+৩+৩)=১০

৫। 'বাল্মীকি' কবিতাটি কি বর্ণনের কবিতা? (২)

৬। 'বাল্মীকি' কবিতায় 'স্বপ্ন' ও 'হরি' শব্দের অর্থ কি? (২)

৭। কবি স্বপ্নে কি দেখলেন? (৩)

৮। কবিতায় বর্ণিত 'স্নানোহর' দৃশ্যটি নিজের তোমার লেখ, (৩)



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**SUBJECT-2<sup>ND</sup> LANGUAGE (HINDI)**

**FULL MARKS: 50**

Question 1.

नीचे लिखे विषयों में से किसी एक विषय पर 150 शब्दों में (15) एक निबंध लिखो।

- (i) मानव और विज्ञान (ii) समाचार पत्र पढ़ने की उपयोगिता।

Question 2.

नीचे लिखे विषयों में से किसी एक विषय पर पत्र लिखिए।

- (i) आपके क्षेत्र में परीक्षाकाल में ध्वनि विस्तारक यंत्र पर (7) शोक लगाने हेतु जिलाधीश को शिकायती पत्र लिखो।
- OR
- (ii) छात्रावास में रहने वाले अपने भाई/बहन को पत्र लिखकर 'समय के सदुपयोग' के महत्व पर प्रकाश डालिए।

Question 3.

नीचे लिखे गद्यांश को पढ़कर उसके नीचे दिए गए प्रश्नों के उत्तर लिखिए।

गांधी जी ने कहा था, "मैं उसी स्थिति लाना चाहता हूँ जिसमें सबका सामाजिक दर्जा समान माना जाए। मजदूरी करने वाले वर्गों को सैकड़ों वर्षों से सभ्य समाज से अलग रखा गया है और उन्हें नीचा दर्जा दिया गया है, लेकिन मैं बुनकर, किसान और शिक्षक के बच्चों में कोई भेद नहीं होने दे सकता।" उनके अनुसार यही आर्थिक समानता है। आर्थिक समानता का अर्थ है जगत में सबके पास समान सम्पत्ति का होना। मतलब सबके पास इतनी सम्पत्ति होनी चाहिए जिससे वे अपनी शैली



कपड़ा और मकान की मूलभूत आवश्यकताओं को पूरा कर सकें। यह एक चिंतन का विषय है कि यह आर्थिक समानता हमारे देश में कैसे लाई जा सकती है? अगर धनवान लोग अपने धन को और उसके कारण मिलने वाली सत्ता को राजी-खुशी छोड़कर या सबके कल्याण के लिए उपयोग करने के लिए तैयार हो जाएँ, तो ही आर्थिक समानता संभव है।

प्रश्न:

- (i) गाँधी जी कैसी स्थिति लाना चाहते थे? (2)
- (ii) आर्थिक समानता का क्या अर्थ है? (2)
- (iii) आर्थिक समानता कब संभव है? (2)

Question 4.

- (i) निम्न शब्दों में से किसी दो शब्दों के विलोम लिखो (1)  
क. सन्यास, ख. विरोधी, ग. आजादी
- (ii) निम्न शब्दों के वर्ण विच्छेद कीजिए (कोई दो) (1)  
क. पैकेज, ख. किताबें, ग. समुद्र
- (iii) निम्न शब्दों के विशेषण लिखिए (1)  
क. हृदय, ख. निंदा
- (iv) निम्न शब्दों के वचन बदलें। (1)  
क. अध्यापिका, ख. कविता
- (v) निम्न अशुद्ध शब्दों को शुद्ध करके लिखो: (1)  
क. प्रसंसात्मक, ख. शुरिली
- (vi) निम्न शब्दों के अर्थ लिखो: (1)  
क. मौका, ख. मर्यादा



(vii) निम्न शब्दों से वाक्य बनाइए: (1)

क. धमाचौकड़ी , ख. भूरि - भूरि प्रशंसा करना

(viii) निम्न वाक्यों के रिक्त स्थान भरें: (1)

क. \_\_\_\_\_ जब से नकदी निकालकर बर्थ के मुँह कोने में रखने लगे।

ख. पुराने तटों को छोड़कर \_\_\_\_\_ बनाले।

Question 5. निम्न प्रश्नों के उत्तर दीजिए

(i) समुद्र किन-किन के आचरण को गरिमा के साथ (3)  
चुपचाप सहन करती है?

(ii) समुद्र की अपेक्षा नदी को क्या आजादी है? (3)

(iii) हमें कैसी वाणी बोलनी चाहिए? (2)

(iv) हरखू का कौन-सा गुण तुम्हें सबसे अधिक (3)  
प्रभावित किया और क्यों?

(v) समुद्र की कौन सी विशेषता का आप अपने (3)  
जीवन में अपनाना चाहेंगे व क्यों?

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**FULL MARKS: 50**

১) কমবেশি ২০০টি শব্দের মধ্যের চনাটিলেখো।

তোমার প্রিয় খেলা।

১৫

২) "তা পরীক্ষা করে দেখছি।"

ক) বক্তা কে? খ) কাকে বলছে? গ) কী পরীক্ষা করছিল? ঘ) বক্তা কবে, কোথায় জন্মগ্রহণ করেন?

ঙ) তার পিতামাতার নাম লেখো। চ) বক্তা মেলা থেকে কী কিনেছিল? ছ) বক্তার গুরুর কী নাম ছিল?

জ) তাঁর প্রতিষ্ঠিত প্রতিষ্ঠানের নাম লেখো। ঝ) তিনি কবে দেহত্যাগ করেন?

২+২+২+২+২+২+২+২+২+২+২=২০

৩) 'তিনিই ব্যারিস্টার বাবু।'

ক) তিনি কে? খ) তিনি কী উপকার করলেন?

গ) তিনি কবে কোথায় জন্মগ্রহণ করেন? ঘ) তাঁর বাবার নাম লেখো।

২+২+(২+২)+২=১০

৪) বাক্যরচনা করো।

৫ × ১ = ৫

কোর্ট, সভা, কৃপা, চেক, সাহসী

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**FULL MARKS: 50**

प्र०1- "चिड़िया" कविता की पहली की 15 पंक्तियाँ लिखिए? (15)

प्र०2- "रक्षाबंधन" पर 10 लाइनो में एक निबंध लिखिए? (10)

प्र०3- निम्नलिखित प्रश्नों के उत्तर दीजिए।

(क) चिड़िया को क्या सुहाता है? (2)

(ख) चिड़िया को सबसे अधिक क्या अच्छा लगता है? (3)

(ग) चिड़िया को किन - किन चीजों से डर नहीं लगता है? (3)

(घ) चिड़िया को किस चीज की परवाह नहीं है? (2)

(ङ) चिड़िया को मनुष्य से क्या शिकायत है? (2)

प्र०4 (A) सही उत्तर चुनिए? (3x1=3)

(क) चिड़िया क्या करती है?

(क) निश्चित उड़ती है। ☐ (ख) परेशान रहती है। ☐

(ख) चिड़िया क्या करने को कहती है?

(क) कैद न करने को। ☐ (ख) स्वतंत्र न करने को। ☐



(ग) चिड़िया को किस चीज का लालच नहीं है ?

(क) पानी का ☐ (ख) दाने का ☐

प्र० ५ (B) - नीचे दिए गए शब्दों का अर्थ लिखकर वाक्यों में प्रयोग कीजिए ? (5×2=10)

(क) एकांकी -

(ख) सुहाता -

(ग) नीड़ -

(घ) मनुज -

(ङ) डर -

**KRISHNAGAR ACADEMY**  
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**CLASS-VIII**

**SUBJECT-BIOLOGY**

**FULL MARKS: 50**

**SECTION-I (25MARKS)**

Attempt all the question

Q1. Choose the correct option: (1x5=5)

- A) Loss of water as droplets from hydathods is called  
(a) Transpiration (b) Bleeding (c) Guttation
- B) High humid conditions in the environment will  
(a) reduce the rate of transpiration (b) increase the rate of transpiration  
(c) not change the rate of transpiration (d) stop the process of transpiration
- C) Most of the transpiration in plants is carried out by  
(a) lenticels (b) cuticle (c) roots (d) stomata
- D) Emasculation is the process of  
(a) removal of pistil (b) removal of calyx  
(c) removal of petals (d) removal of anthers
- E) pollen grains are light and dry in  
(a) anemophilous flower (b) hydrophilous flower  
(c) entomophilous flower (d) zoophilous flower

Q2. Fill in the blanks: (5x1=5)

- a) The excess water within a plant is transported to the \_\_\_\_\_ for transpiration.
- b) The transpiration rate decreases in still air because of \_\_\_\_\_.
- c) \_\_\_\_\_ plants are living in dry and hot condition.
- d) \_\_\_\_\_ pollination requires an external agent.
- e) The flowers having only stamens are called \_\_\_\_\_ flower.

Q3. State whether the following statements are true or false: (1x5=5)

- a) Plants loss excess water in the form of water droplets.
- b) Both the surfaces of leaves contain abundant stomata.
- c) Pollination in hydra takes place with the help of wind.
- d) Prostate gland enhances motility and fertility of the sperms.
- e) Transpiration creates a suction force that causes the absorption of water by roots.

Q4. Match the following: (5x1=5)

- |                       |                     |
|-----------------------|---------------------|
| a. Testis             | i. petals           |
| b. Corolla            | ii. vallisneria     |
| c. Hydrophilous plant | iii. cooling effect |
| d. Transpiration      | iv. tissue          |
| e. Zylem              | v. scrotum          |

Q5. Name the following: (5x1=5)

- a) Exact location of stomata.
- b) Plants grown in the desert.
- c) Loss of water in the form of water droplets from the margin of leaves.
- d) Pollination by insects.



e) Male sex cells.

## **SECTION-II (25MARKS)**

Answer the following questions

Q6. a) Write down the disadvantages of transpiration.

b) What are internal factors that affecting transpiration? 3+2

Q7. a) What is the function of cuticle?

b) Do plants loss water through lenticle? 3+2

Q8. a) Give the difference between autogamy and geitonogamy.

b) Write the characteristics of insect pollinated anthers. 2+3

Q9. a) What is double fertilization?

b) Why is double fertilization called triple fusion? 3+2

Q10. Given below is an experimental set-up to study a particular process. 5

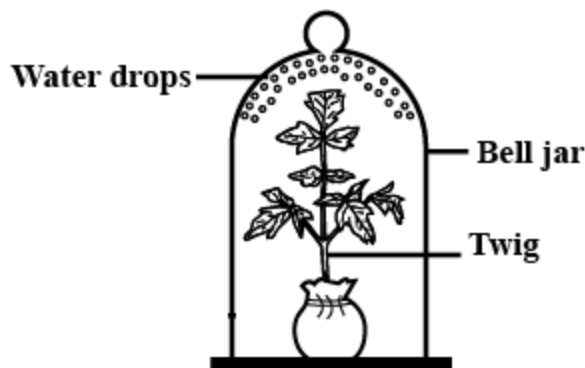
(i) Identify the process being studied.

(ii) Explain the process named in (i)

(iii) Why is the pot showing water drops after some time?

(iv) Mention one advantage of this process to the plants.

(v) According to you what can be the suitable control for this experiment.



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**CLASS-VIII**

**SUBJECT-CHEMISTRY**

**FULL MARKS: 50**

Question 1. Explain the following:

(2x10=20)

- a) Solids cannot be compressed.
- b) A liquid can flow and takes the shape of the container in which it is poured.
- c) Gases have neither a fixed shape nor a fixed volume.
- d) Law of conservation of mass is followed during burning of a magnesium ribbon.
- e) Inter conversion of states of matter is carried out by changing temperature and pressure.
- f) A gas can fill the whole vessel in which it is enclosed.
- g) When sodium chloride is added to a definite volume of water and stirred well, a solution is formed, but there is no increase in the level of water.
- h) A piece of chalk can be broken easily into smaller pieces while a coal piece can't be broken easily.
- i) Gases have maximum kinetic energy.
- j) Robert Brown observed that the pollen grains were moving in an irregular manner.

Question 2. Define:

(1x10=10)

- |                       |   |
|-----------------------|---|
| a. Sublimation        | f. Inter conversion of the states of matter |
| b. Deposition         | g. Law of conservation of mass              |
| c. Brownian motion    | h. Liquefaction                             |
| d. Matter             | i. Fusion                                   |
| e. Condensation point | j. Fluids                                   |

Question 3. Differentiate between solid, liquid and gas on the basis of— (5x1=5)

- |  |             |          |                         |
|--|-------------|----------|-------------------------|
| a. Intermolecular force of attraction. | b. Fluidity | c. Shape | d. Inter particle space |
| e. Compressibility                     |             |          |                         |

Question 4: Choose the correct answer:

(5x1=5)

- a. Particles of the matter have following characteristic:
  - (i) They constantly move
  - (ii) They attract each other
  - (iii) They are very small
  - (iv) All of the above
- b. Diffusion in liquids is an example of
  - (i) Smell and perfume
  - (ii) Smell of food
  - (iii) Spreading of ink in water
  - (iv) Fragrance of incense stick
- c. Name the particles which make up matter:
  - (i) Non-metals
  - (ii) Metals
  - (iii) Metalloids
  - (iv) Atoms
- d. The melting point of a solid is an indication of
  - (i) Its rigidity
  - (ii) Its shape
  - (iii) Intermolecular force of attraction
  - (iv) Its ability to intermix with other solids



e. Which of the following is the property of solid?

(i) Can be compressed

(iii) Have low density

(ii) Have definite shape

(iv) Intermolecular force is less

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**KRISHNAGAR ACADEMY**  
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**CLASS-VIII**  
**SUBJECT-ENGLISH (PAPER-I)**  
**FULL MARKS: 50**

Question 1.

Write a composition on any one of the following topics: [15]

- a) Give an account of a religious festival at which you were present.
- b) In your summer vacations you had to visit a place of comfort and natural beauty. Describe your experience of it.
- c) Narrate an incident of extreme bravery which you come to know or you were involved in it.

Question 2.

Select one of the following: [10]

- a) Write a letter to your cousin congratulating her on being selected in the final round of inter-school singing competition and wishing her good luck for the competition.
- b) Write a letter to the principal of your school requesting him to start special hobby classes during the summer vacation.

Question 3.

Read the following passage and answer the questions:

It is important to keep a level head at all times. However, there are two occasions when keeping a level head is absolutely necessary – when we achieve a big success and when we make bad failure. An exceptional success usually inflates our ego and makes us boastful; a miserable failure fills us with dejection and makes life meaningless. Both these experiences are common in student life. A brilliant performance in one examination turns one's head while a dismal result in another makes one feel as if this were the end of the world. Both these reactions are equally flawed. Superiority complex is as deplorable as inferiority complex.

To be successful in life, one should be in total control of oneself, one should remain unmoved both by the ups and downs of life, for he who gets broken by a stroke of bad luck is equally likely to get broken by a run of good luck too. No progress is possible in either case.

How can one keep a level head? If our value system is correct, we will not get easily strayed in life. If a businessman gives greater importance to health, character, a happy family and a friendship than to money, he will not lose his head if he suddenly turns rich or if there is a slump in business and his income suddenly goes down. Similarly, if a student's focus is on acquiring knowledge, or on personality development, one performance whether exceptionally good or bad, will not destroy his or her balance.

We should also remember that nothing is permanent in this world. Neither good fortune will keep smiling at us nor bad luck keep hounding us all the time. Both



prosperity and adversity are bound to pass, to be swallowed by a shadowy past. Why then rejoice in one and grieve at the other?

A. Answer the following questions:

1. On what two occasions is it most important to maintain one's balance?
2. What are the usual consequences of an exceptionally good performance or a very bad result?
3. What should be a student's attitude towards his/her studies?
4. What great reality of life can help us to remain cool in all situations?

B. Find words from the passage which mean the following:

1. poor, hopeless
2. a sudden fall in sales, prices

Question 4:

[15x1=15]

a) In each of the following sentences replace the underlined adjectives by an adjective phrase of the same meaning:

- 1) She wore a diamond necklace.
- 2) A valuable ring was found yesterday.
- 3) He is a professional cricketer.

b) Replace the adverbs which are underlined by an adverb phrase of the same meaning:

- 1) The dying man replied feebly.
- 2) They have only recently arrived.
- 3) He spoke eloquently.

c) Pick out the noun phrases in the following sentences:

- 1) The wicked vizier loves getting people into trouble.
- 2) Horses prefer living in dark stables.
- 3) He denies stealing the money.

d) Replace each of the following underlined adjective phrases by an adjective of the same meaning:

- 1) He wore a turban made of silk.
- 2) Nobody likes a person with a bad temper.
- 3) Nelson was a boy without fear.

e) Pick out the adverb clauses in the following sentences:

- 1) They went where living was cheaper.
- 2) Take a lamp because the night is dark.
- 3) If you eat too much you will be ill.

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**KRISHNAGAR ACADEMY**  
**HALF-YAERLY (PHASE-II) EXAMINATION**  
**CLASS-VIII**  
**SUBJECT-ENGLISH (PAPER-II)**  
**FULL MARKS: 50**

I) Read the extract below and the answer the question that follow:

A.

“Six humans trapped by happenstance  
In bleak and bitter cold  
Each one possessed a stick of wood  
Or so the story’s told.”

- |   |     |
|---|-----|
| 1) Explain the meaning of “happenstance” and “bleak”. | 2+2 |
| 2) What did the people do with “stick of wood”?       | 3   |
| 3) What did the “third man” think?                    | 4   |
| 4) What did the “first man” do?                       | 3   |
| 5) What did the “rich man” think?                     | 2   |

B.

“Their logs held tight in death’s still hands was proof of human sin.  
They didn’t die from the cold without  
They died from the cold within.”

- |  |   |
|--|---|
| i) Justify the title of the poem “The Cold Within”.    | 4 |
| ii) What did the “last man” do?                        | 4 |
| iii) What do the “logs” denote?                        | 3 |
| iv) Who are “they” referred to here? Where were they?  | 3 |
| v) What message does the poet convey through the poem? | 2 |

II) The Merchant of Venice

- |  |     |
|--|-----|
| 1) Why did Antonio and Bassanio went to Shylock together? What Shylock did? Explain the brief.           | 4   |
| 2) “The happiness of these lovers was sadly crossed .....” Who are ‘these’ lovers and why they were sad? | 2+2 |
| 3) In what disguise Portia went to save Antonio? How did she react when the trial first began?           | 1+3 |
| 4) “Portia hearing this, seemed very angry,...” Why Portia is angry? What happened?                      | 4   |
| 5) How much money did Antonio went take or lend from Shylock?  | 2   |



**KRISHNAGAR ACADEMY**  
**HALF-YAERLY (PHASE-II) EXAMINATION**  
**CLASS-VIII**

**SUBJECT-GEOGARPHY**

**FULL MARKS: 50**

Q1. Mark the following on the on the outline map of India: 10x1=10

- a) Karakoram Range   b) Western Ghat   c) Decan Platean   d) Tropic of cancer  
e) Nilgiri Hills   f) Vindhya Range   g) Gulf of Kuchch   h) Gulf of Mannar  
i) Malwa Plateau

Q2. Answer in short form: 5x2=10

- a) What is Population Dynamics?  
b) Define Population Distribution?  
c) Name the most densely populated country in the World.  
d) What do you understand by 'population change'?  
e) What is the difference between immigration and emigration?

Q3. a) What is meant by population? How does population act as a resource? (2)  
b) Define population density. Name two areas of high density population and low density population. (2)

- c) What is population composition? Why is it important? (2)  
d) Distinguish between Internal and International migration. (2)  
e) Write the factors which affect the population density (2)

Q4. a) What is overpopulation? (1)  
b) Write the impact of overpopulation. (3)  
c) Why the people move out of their country? (2)  
d) Write a short note on Census? (2)  
e) Sex ratio is an important indicator of the status of women in a country – why? (2)

Q5. a) What is population pyramid? What is its significance? (3)  
b) Write the characteristic of population pyramid in underdeveloped countries. (2)  
c) State one positive and one negative effects of under population. (2)  
d) Why India is considered as Developing country? (3)

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**KRISHNAGAR ACADEMY**  
**HALF-YAERLY (PHASE-II) EXAMINATION**  
**CLASS-VIII**  
**SUBJECT-HISTORY**  
**FULL MARKS: 50**

ATTEMPT ALL THE QUESTIONS FROM PART-1

**PART-1**

**Q-1**

**ANSWER ALL THE QUESTIONS**

**5X2 = 10M**

- (i) What do you mean by Cariya Piyaka? How many tales are collected from Cariya Piyaka?
- (ii) How the slaughter of animals contributed for the Rise of Buddhism and Jainism.
- (iii) What are the three-fold path for leading a pure life?
- (iv) Who was Megasthenes? Name the book written by Megasthenes.
- (v) What were the two titles given to Ashoka?

**Q-2**

**ANSWER ALL THE QUESTIONS**

**5X2 = 10 M**

- (i) Define the term 'Constitution'. What does Indian Constitution define?
- (ii) What are the three organs of the Government?
- (iii) When did the constitution as a whole come into force? Who was the first President of India?
- (iv) How much time did the constituent assembly take to draft the constitution? How many parts, articles and 4 schedules are there in Indian Constitution?
- (v) In which year and in which session of Congress the pledge for 'Purna Swaraj' was declared?

PART-II-SECTION-A (ATTEMPT ANY TWO)

Q-3

- ① Write down two factors (any two) for the Rise of Buddhism. (3)
- ② Who was the last of the Tirthankaras who made Jainism popular? What was his original name? Where was he born? (3)
- ③ Why were the followers of Mahavira called Jains? (4)

Q-4

- ① Write any three changes that came in Ashoka's life after the Kalinga war was over. (3)
- ② Briefly discuss the war of succession between Ashoka and his half-brothers after Bindusara died. (3)
- ③ Give a brief introduction to the Character of Ashoka - the greatest emperor of the Mauryan Dynasty. (4)

Q-5

- ① What is the most crucial source of knowledge about Mauryan Dynasty? Who wrote it? When was the book discovered? (3)
- ② Write a short note Indica. (3)
- ③ Write any four features of Ashoka's 'Dhamma'. (4)



## SECTION-B

ATTEMPT ANY ONE (BETWEEN 8-6 and 8-7)

8-6 ① What is the importance of 26th January? (3)

② What is the significance of Single Citizenship? (3)

③ Write a short note on Universal Adult Franchise. (4)

8-7

① What do you know about dual citizenship?  
Name one country that practices dual citizenship. (3)

② What does Indian Constitution define? What does it state about the duties of the three organs of the government? (3)

③ What does it mean if anyone is denied the right to vote? What message does Universal Adult Franchise spread? (4)

**KRISHNAGAR ACADEMY**  
**HALF-YAERLY (PHASE-II) EXAMINATION**  
**CLASS-VIII**

**SUBJECT-MATHEMATICS**

**FULL MARKS: 50**

**Attempt all questions from Section-A and Section-B**

**Section-A (20 Marks)**

Question 1.

a) Rajesh bought an A.C. for ₹38500 including 10% GST. Find the price of AC before GST was added. (3)

b) Find the value of x for which

$$\left\{\left(-\frac{2}{7}\right)^2\right\}^x \times \left(-\frac{7}{2}\right)^{-1} = -\frac{8}{343} \quad (2)$$

c) Find the amount and compound interest on ₹2500 in 2 years if the rates are 5% and 6% for the successive years. (3)

d) Factorise:  $x^2 + \left(a + \frac{1}{a}\right)x + 1$  (2)

Question 2:

a) Find twenty rational numbers between  $-\frac{3}{7}$  and  $\frac{2}{3}$  (3)

b) Area of a square is  $4 \text{ m}^2$  more than  $\frac{2}{3}$  of the area of a rectangle. If the area of the square is  $64 \text{ m}^2$ , then find the dimensions of rectangle, given that the breadth is  $\frac{2}{5}$  of the length. (3)

c) Rahul can do  $\frac{2}{7}$  of a certain work in 6 days while Suresh can do  $\frac{3}{5}$  of the same work in 9 days. They started work together but after 7 days Rahul left the work. Find in how many days Suresh can complete the remaining work? (4)

**Section-B (30 Marks)**

Question 3: Factorise the following:

a)  $625 - p^4$

b)  $x^4 - y^4 + x^2 - y^2$

c)  $4a^2 - 4b^2 + 4a^2 + 1$

d)  $14(a - 3b)^3 - 21p(a - 3b)$

e)  $2y^2 + y - 45$

(5x2=10)

Question 4:

a) Simplify:  $[2^{-1} + 3^0 + 5^1 + 7^2 + 9^3] \div \left(\frac{2}{3}\right)^{-1}$  (2)

b) Prove that  $(a + b)^{-1}(a^{-1} + b^{-1}) = (ab)^{-1}$  (2)

c) By what number should  $\left(-\frac{3}{2}\right)^{-4}$  be divided to get  $\left(-\frac{2}{3}\right)^3$  (2)

d) Evaluate:  $\frac{x^p}{x^p + x^q} + \frac{1}{x^{p-q} + 1}$  (2)

e) Evaluate:  $\left(\frac{x^p}{x^q}\right)^{p+q} \times \left(\frac{x^q}{x^r}\right)^{q+r} \times \left(\frac{x^r}{x^p}\right)^{r+p}$  (2)

Question 5:

- a) Marked price of an article is ₹2860 and rate of GST is 8%. Shopkeeper allows a discount of 20% and still makes a profit of 10%. If he spent 4% as overheads, then find the original cost price of the article and final selling price including GST. (4)
- b) Find the sum invested for  $1\frac{1}{2}$  years compounded half yearly at the rate of 8% p.a. that will amount to ₹17576. (3)
- c) The difference between the compound interest and the simple interest on ₹42000 for two years is ₹105 at the same rate of interest per annum. Find (i) the rate of interest (ii) the compound interest earned in second year. (3)
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**KRISHNAGAR ACADEMY**  
**HALF-YAERLY (PHASE-II) EXAMINATION**  
**CLASS-VIII**

**SUBJECT-PHYSICS**

**FULL MARKS: 50**

**Section-A**

Question 1.

(5x2=10)

- a) Define the term relative density of a substance.
- b) Name the SI unit of density. How is it related to  $\text{gcm}^{-3}$ ?
- c) Arrange the following substances in order of their increasing density: Iron, Cork, Water, Mercury.
- d) Distinguish between density and relative density.
- e) The density of brass is  $8.4\text{g/cm}^3$ . What do you mean by the statement?

Question 2.

(5x2=10)

- a) State two effects of a force when applied on a body.
- b) Define the term moment of force.
- c) State the SI unit of force and moment of force.
- d) (i)  $1\text{ kgf} = \underline{\hspace{2cm}}\text{ N}$ (nearly)  
(ii) In a door, handle is provided                      from the hinges.
- e) What will be the changes when force applied on a rigid body and a non-rigid body?

Question 3.

(5x2=10)

- a) (i) The weight of a body floating in a liquid is                     .  
(ii) The density of a body which sinks in water is                      than  $1000\text{ kg/m}^3$ .
- b) State the law of floatation.
- c) Match the following

**Column A**

- a) Wood
- b) No unit
- c) Iron
- d) Relative density

**Column B**

- i) density bottle
- ii) floats on water
- iii) relative density
- iv) sinks in alcohol

- d) State two applications of floatation.
- e) A piece of iron of volume  $30\text{ cm}^3$  has a mass of  $234\text{g}$ . Find the density of iron.

**Section-B**

Question 4:

- a) What do you mean by the clock wise and anti clock wise moment of force? (4)
- b) Explain the following:  
The steering wheel of a vehicle is of large diameter. (3)
- c) The moment of a force of  $25\text{N}$  about a point is  $2.5\text{Nm}$ . Find the perpendicular distance of force from that point. (3)

Question 5:

- a) The density of air is  $1.28\text{g litre}^{-1}$ . Express it in (i)  $\text{g cm}^{-3}$  (ii)  $\text{kg m}^{-3}$  (2+2)
  - b) It is easier to swim in sea water than in river water. Explain the reason. (3)
  - c) For a floating body, how is its weight related to the buoyant force? (3)
-