

2020

BENGALI

Time Allowed — 90 min.

Full Marks — 100

If the questions attempted are in excess of the prescribed number, only the questions attempted first up to the prescribed number shall be valued and the remaining ones ignored.

The figures in the margin indicate marks for each question.

- ১। (ক) সন্ধি বিচ্ছেদ করুন : ১×৫=৫
 শিরশ্ছেদ, নীরব, দুলোক, একচ্ছত্র, সর্বৈব।
- (খ) অশুভি সংশোধন করুন : ১×৫=৫
 অম্মুত, অত্যাধিক, দধিটী, সত্ৰা, পুথকাল।
- (গ) এককথায় প্রকাশ করুন : ১×৫=৫
 জানার ইচ্ছা, ধন্যবাদের যোগ্য যে, পঙ্গর পুত্র, যা ফুরায় না, যে নারী প্রিয় বাক্য বলে।
- (ঘ) সার্থক বাক্যে প্রয়োগ করুন : ১×৫=৫
 গোড়ার গলদ, পাকা ধানে মই, মাটির মানুষ, আকাশকুসুম, হরিহর আত্মা।
- (ঙ) ব্যাসবাক্যসহ সমাস নির্গয় করুন : ১×৫=৫
 শ্বেতচন্দন, লাঠালাঠি, দুর্ভিক্ষ, মেঘাচ্ছন্ন, শতাব্দী।
- ২। আবাসনের অধিবাসীদ্বয় কর্তৃক ঈশ্বরচন্দ্র বিদ্যাসাগর-এর বিশততম জন্মজয়ন্তী পালন বিষয়ে সংবাদপত্রে প্রকাশ-উপযোগী একটি প্রতিবেদন রচনা করুন। ২৫
- ৩। বঙ্গানুবাদ করুন : ২৫
- ‘I won’t take up a lot of your time’, said Kantibabu.
- ‘I came across one of your novels recently. So I got in touch with your publisher, took your address and here I am. There is a special reason why I had to see you.’
- ‘Yes? Tell me about it. But before you do, there is so much I want to know. When did you return? Where were you all these years? Where are you now?’
- ‘I returned two years ago. Before that I was in America. Now I live in Barasat.’
- ‘Barasat?’
- ‘I bought a house there.’
- ‘Yes.’
- ‘And a green house?’
- ‘In the house that I had visited before, Kantibabu had a lovely green-house, in which he tended, with great care, several of his rare plants. I had seen such a large number of strange plants there!’

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৪। চলিতভাষায় সান্নাংশ রচনা করুন :

আমাদের মধ্যে বিনামূলি বাড়িয়াছে বলিয়া অনেকে কল্পনা করেন যে, ইহা আমাদের ধনদৃষ্টির লক্ষণ। কিন্তু একথা বিচার করিয়া দেখিতে হইবে যে, পূর্বে যে অর্থ সাধারণের কার্যে ব্যয়িত হইত, এখন তাহা ব্যক্তিগত ভোগে ব্যয়িত হইতেছে। ইহাতে ফল হইতেছে দেশের ভোগবিলাসের স্থানগুলি সমৃদ্ধিশালী হইয়া উঠিতেছে—শহরগুলি ফাঁপিয়া উঠিতেছে—কিন্তু পল্লিগুলিতে দারিদ্র্যের অবশি নাই। সমস্ত বাংলাদেশের পল্লিতে মেঘমন্দির তাড়িয়া পড়িতেছে। পুষ্পরিণীর স্তল স্নান-পানের অযোগ্য হইতেছে। গ্রামগুলি জন্মলে তরিসা উঠিতেছে এবং যে দেশ বারো মাসে তেরো পার্বণে মুখরিত হইয়া থাকিত, সে দেশ নিরানন্দ-মিস্তক হইয়া গিয়াছে। দেশের অধিকাংশ অর্থ শহরে আকৃষ্ট হইয়া কোঠাবাড়ি, গাড়িখোড়া, সাজসরঞ্জাম, আহাৰবিহারেই উড়িয়া যাইতেছে। অথচ যাহারা এরূপ ভোগবিলাসে ও আড়ম্বরে আত্মসমর্পণ করিয়াছেন, তাহারা প্রায় কেহই সুখ-স্বচ্ছন্দ্যে নাই, তাহাদের অনেকেরই টানাটানি, অনেকেরই স্বপ্ন, অনেকেরই পৈতৃক সম্পত্তিকে মহাজনের সায়মুজ্জ করিবার জন্য চিরজীবন নাষ্ট হইতেছে..... যে ধন সমস্ত দেশের অভাবমোচনের জন্য চারিদিকে ব্যাপ্ত হইত, সেই ধন সংকীর্ণ স্থানে আবদ্ধ হইয়া যে ঐশ্বর্যের সৃষ্জন করিতেছে, তাহা বিশ্বাসযোগ্য নহে। সমস্ত শরীরকে প্রতারণা করিয়া কেবল মুখেই যদি রক্তসঞ্চয় হয়, তবে তাহাকে স্বাস্থ্য বলা যায় না।

HINDI

1. নিম্নলিখিত প্রশ্নের উত্তর লিখি :

(ক) নিম্নাংকিত পংক্তিতে মেরি-চিহ্নের প্রয়োগ কীজি :

5

চবপন মেরি হি প্রেমচন্দ কা নাম সুন্য থ্য বড়া হোকর उनकी कई कहानियाँ पढ़ी इनमें प्रमुख है — मंत्र कफन बड़े घर की बेटी तथा पूस की रात

(খ) অধোলিখিত কিনির্ পঁচ শব্দেৰে বিশেষণ রূপ লিখি :

5

- | | | | |
|----------|-----------|--------------|---------------|
| (i) আকাশ | (ii) নগর | (iii) উপজ | (iv) গুণ |
| (v) খেল | (vi) নাটক | (vii) অজ্ঞান | (viii) আশ্রয় |

(গ) নীচে লিখিত কিনির্ পঁচ শব্দেৰে শুদ্ধ রূপ লিখি :

5

- | | | | |
|--------------|--------------|------------------|--------------|
| (i) প্রমাণিক | (ii) অজোধ্যা | (iii) চিত্রচায়া | (iv) পক্ষীগণ |
| (v) বিকাশ | (vi) দ্বারা | (vii) দুস্কর | (viii) মহত্ব |

(ঘ) নীচে অংকিত কিনির্ পঁচ শব্দেৰে বিপরীতার্থক শব্দ লিখি :

5

- | | | | |
|----------|--------------|-------------|---------------|
| (i) সগুণ | (ii) গৃহস্থ | (iii) বন্ধন | (iv) আয়াত |
| (v) জড় | (vi) জ্যেষ্ঠ | (vii) উপকার | (viii) উপসর্গ |

(ঙ) নিম্নাংকিত কিনির্ পঁচ শব্দেৰে দু-দু পর্যায়বাচী শব্দ লিখি :

5

- | | | | |
|-------------|----------------|-------------|--------------|
| (i) হিমালয় | (ii) সন্ন্যাসী | (iii) বিজলী | (iv) হবা |
| (v) মেঘ | (vi) আকাশ | (vii) সাঁপ | (viii) তালাব |

2. নিম্নাংকিত প্রশ্নেৰে উত্তর অপনে শব্দেৰে মেরি দীজি :

‘কোৰোনা’ মহামারী কে প্রকোপ সে প্রভাবিত কিসী ইলাকে কো আধার বনাকার এক প্রতিবেদন লিখি।

25

09717

2020
PAPER-I
ENGLISH

Full Marks — 100

Time Allowed — 90 min.

The figures in the margin indicate marks for each question.

25

1. Attempt a summary of the following passage:

Several times in the history of the world particular countries and cities, or even small groups of people, have attained a high degree of civilization. Yet none of these civilizations, important as they were, have lasted, and one of the reasons why they did not last was that they were confined to a very few people. They were like little oases of civilizations in deserts of barbarism. Now it is no good being civilized if everybody round about you is barbarous, or rather, it is some good, but it is very risky. For the barbarians are always liable to break in on you, and with their greater numbers and rude vigour scatter your civilization to the winds. Over and over again in history comparatively civilized peoples dwelling in cities have been conquered in this way by barbarians coming down the hills and burning and killing and destroying whatever they found in the plains. In the thirteenth century most of Europe was overrun in this way by the Mongols from Central Asia, and such civilization as then existed was nearly destroyed.

None of the noticeable things about modern civilization which is also one of the reasons why it is likely to outlast the others, is, that it is more or less free from this particular danger. And it is free from it because it is far less local and far more widespread than the others; so widespread, indeed, that it already covers a large part of the earth.

2. Write a report on how a particular locality in Kolkata voluntarily has taken up good practices of maintaining hygiene and social distancing to bring down active cases of COVID 19 and setting an example for others. 25

3. Answer the following according to the instructions given alongside. The full marks for each question are given against it.

- (a) He died in his native village. 2
(Change to a Complex sentence)
- (b) The boy was disobedient, and so the teacher punished him. 2
(Change into a Simple sentence)
- (c) If you do not hurry you will miss the train. 2
(Change into Compound sentence)
- (d) One should keep one's promises. 2
(Change into Passive Voice)
- (e) Our army has been defeated by the enemy. 2
(Change into Active Voice)

Please Turn Over

- (f) Hereafter he is disqualified **of/for** holding any government post. 2
(Choose the correct preposition)
- (g) He is expert **in/on** inventing stories. 2
(Choose the correct preposition)
- (h) He is intent **upon/on** visiting Norway. 2
(Choose the correct preposition)
- (i) He said "My master is writing letters." 2
(Change into Indirect speech)
- (j) He called upon God and said that he was ruined. 2
(Change into Direct speech of Exclamation)
- (k) Give the antonym of '**ferocious**'. 1
- (l) Give the synonym of '**worthy**'. 1
- (m) He (**talked of/cried out**) against injustice. 1
(Choose the correct option)
- (n) I was (**let into/put into**) her secret. 1
(Choose the correct option)
- (o) He (**predicts on/holds out**) no promise for future prospects. 1
(Choose the correct option)

4. Translate the following passage from Bengali into English. 25
(Who opted Bengali for Paper-II)

গান্ধীজীকে নিয়ে রচিত লুই কিশার তাঁর প্রবন্ধের শেষের আগের অনুচ্ছেদে তাঁকে পৃথিবীর অন্যান্য নেতাদের সঙ্গে তুলনা করে তাঁর ব্যক্তিত্বের পিছনে রহস্যটি কি তা উদ্ঘাটিত করেছেন। ফিলার বলেছেন যে নরেন্দ্র জর্জ, চার্চিল এবং রুজভেল্ট-এর মত পৃথিবীর নেতারা এক বিরাট কর্তৃত্ব প্রয়োগ করতেন এবং এই কর্তৃত্বের উৎস ছিল তাঁদের অধিকৃত উচ্চপদ এবং তার আনুষঙ্গিক আড়ম্বর, যেমন— প্রাসাদ বা ঐতিহাসিক অট্টালিকা, প্রহরী, অপেক্ষা-রক্ষা ইত্যাদি। তাঁদের সহৃদয় দেশাত এবং তাঁরা তাঁদের ব্যক্তিত্ব ও প্রাধান্য আড়ম্বরের সঙ্গে প্রদর্শন করতেন এবং কিশারের মতে এগুলি সবই তাঁদের ধার করা পদ থেকে আসত। কিন্তু গান্ধীজী কোন উচ্চপদ অধিকার করেননি আর পৃথিবীর অন্যান্য নেতাদের মত চমকপ্রদ আড়ম্বর তাঁর ছিল না।

Translate the following passage from Hindi into English. 25
(Who opted Hindi in lieu of Bangali for Paper-II)

बेकारी की समस्या नयी नहीं है। परंतु कुछ सामाजिक-आर्थिक परिवर्तनों के कारण इसका रूप और तीव्रता गत वर्षों में अधिक बढ़ गयी है। सबसे पहले एक और बढ़ती हुई आबादी के कारण तथा दूसरी और हाथ चलित मशीनों के स्थान पर शक्ति चालित मशीनों के आने से हमलों का अर्थ अव्यवस्थित हो गया है। दूसरा, राज्य में मध्यवर्गीय अर्थभूमि का सहारा खो जाने से तथा संयुक्त परिवारों के विघटन होने से बेरोजगारी और मजदूरी गयी: प्रत्येक परिवार को एक घर था तथा जमीन की जोत थी। खेती, गृह और संयुक्त परिवार, विपार तथा बेकारी की अवस्था में एक प्रकार की सुरक्षा देते थे।

GENERAL STUDIES AND CURRENT AFFAIRS

Time Allowed — 90 min.

Full Marks — 100

If the questions attempted are in excess of the prescribed number, only the questions attempted first up to the prescribed number shall be valued and the remaining ones ignored.

1. Answer *any five* questions:

2×5=10

- (a) Write the laws of refraction of light.
- (b) Write with example the difference between mineral and ore.
- (c) Write two harmful effects of depletion of ozone layer on human health and environment.
- (d) What is hypermetropia? Which lens is used for its remedy?
- (e) What is meant by renewable energy source? Give an example.
- (f) Write down two uses of radioactivity.
- (g) Which type of electricity is used in electrolysis and why?
- (h) What are the bacteria called which decompose biomass to methane in biogas plant?

2. Answer *any five* questions:

2×5=10

- (a) Write two differences between hormone and nervous system regarding their mode of functions.
- (b) "Nitrogen Cycle is getting affected due to human activities".— State two phenomena to justify.
- (c) Write one cause and one symptom of lung cancer in human being.
- (d) Write two differences between plant and animal.
- (e) Write two functions of Mitochondria.
- (f) Give examples of two ways over population of human affects biodiversity.
- (g) How does reflex action help in daily life of human being?—Explain with two examples.
- (h) What is the relation between phenotype and genotype?

3. Answer *any ten* questions:

1×10=10

- (a) What is Metamorphic Rock?
- (b) What is the name of the steep ridge lying between two corries?
- (c) What is measured by Beaufort scale?
- (d) By which unit relative humidity is expressed?
- (e) Name any two gaseous pollutants.
- (f) What is the main reason for occurrence of tides?

- (g) Name the highest mountain peak of India.
- (h) Name a cold desert region in India.
- (i) Which state ranks first in per hectare production of rice in India?
- (j) Name the petrochemical centre in West Bengal.
- (k) Which is the longest national highway of India?
- (l) Which is the sparsely populated state of India?
- (m) Which is the most populous city of India?

4. Answer any fifteen questions:

2×15=30

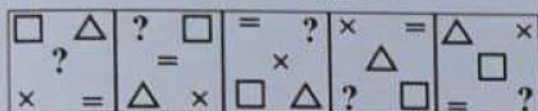
- (a) Define the term Nutrition.
- (b) What do you mean by "malnutrition"?
- (c) Define Health.
- (d) What is RDA?
- (e) What is the RDA for energy and protein for a coal mine worker?
- (f) What is "Balanced Diet"?
- (g) Define Energy.
- (h) Write two units of energy.
- (i) Mention two clinical symptoms of Vitamin A deficiency.
- (j) Mention two clinical symptoms of iodine deficiency.
- (k) Why sucrose is a non reducing sugar but maltose is not?
- (l) What are monosaccharides?
- (m) Write the differences between glucose and sucrose with clear structure.
- (n) Define BMR.
- (o) Name one aromatic amino acid and draw the structure.
- (p) Write one important application of Iodine value.
- (q) State any two functional roles of sugar in foods.
- (r) State any two factors affecting protein bioavailability.
- (s) State any two effects of too high intake of Proteins.
5. (a) Indian nationalism grew partly as a result of colonial policies and partly as a reaction to colonial policies. Discuss. 5
- (b) "Though Swadeshi movement failed in achieving its immediate objective, yet it played a significant role in the Indian freedom struggle." Discuss. 5

6. Answer *all* questions:

2×5=10

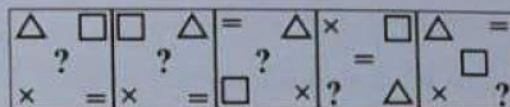
- (a) Select a figure from amongst the Answer Figures which will continue the same series as established by the five Problem Figures.

Problem Figures



(A) (B) (C) (D) (E)

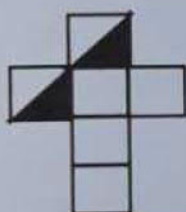
Answer Figures



(1) (2) (3) (4) (5)

Justify your answer.

- (b) Choose the box that is similar to the box formed from the given sheet of paper (X).



(X)



(1)



(2)



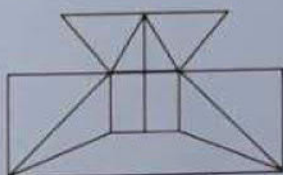
(3)



(4)

Justify your answer.

- (c) Find the minimum number of straight lines required to make the given figure. Justify your answer.



- (d) Look at this series : 8, 6, 9, 23, 87, ... What number should come next? Give reasons.

- (e) Look at this series : 7, 10, 8, 11, 9, 12, ... What number should come next? Give reasons.

2×5=10

7. Answer *any five* questions:

- During the period of Covid outbreak, which state launched livelihood generation portal for returned migrant workers?
- Which fund is emphasized by National Education Policy 2020 to set up?
- Who was awarded the 2020 Nobel Prize in Physiology or Medicine?
- What is the aim of PURVODAYA mission launched in West Bengal in January 2020?
- State the major research area of Nobel Laureate Dr. Abhijit Vinayak Banerjee in the field of Economics.

- (f) Mention any two objectives of 'Sabooj Sathi' project in West Bengal.
- (g) Mention any two objectives of 'Karma Bhoomi' project in West Bengal.
- (h) In which year Late Former President Pranab Mukherjee was awarded Bharat Ratna Award?

8. Answer *any five* questions:

2×5=10

- (a) What are natural ecosystems?
 - (b) What is food web? Give example.
 - (c) What is meant by conservation of natural resources?
 - (d) What are fossil fuels?
 - (e) What is biodiversity?
 - (f) What are the main causes of the loss of biological diversity now-a-days?
 - (g) What are the air pollutants in automobile exhaust?
 - (h) What is essential in an EIA?
-

PAPER-IV
ARITHMETIC

Time Allowed — 90 min.

Full Marks — 100

If the questions attempted are in excess of the prescribed number, only the questions attempted first up to the prescribed number shall be valued and the remaining ones ignored.

Answer Question number 1 and any sixteen (16) from the rest.

1. Simplify:

4

$$\frac{4\sqrt{3}}{2-\sqrt{2}} - \frac{30}{4\sqrt{3}-\sqrt{18}} - \frac{\sqrt{18}}{3-2\sqrt{3}}$$

2. If $x = 1 + \sqrt{2} + \sqrt{3}$ and $y = 1 + \sqrt{2} - \sqrt{3}$, then find the value of $\frac{x^2 + 4xy + y^2}{x + y}$. 6
3. By selling 12 articles per rupee, there is a loss of 4%. How many articles should be sold per rupee so as to gain 44%? 6
4. The M.P. of a bicycle is ₹ 4000. While selling the bicycle, if three successive discounts of 20%, 10% and 5% are allowed, then what price will the customer pay for it? 6
5. Find the least square number which is exactly divisible by 3, 4, 5, 6, 8. 6
6. Difference of two perfect cubes is 189. If the cube root of the smaller number is 3, then find the cube root of the larger number. 6
7. Three bags contain 64.2 kg of sugar. The second bag contains $\frac{4}{5}$ of the contents of the first and the third contains $45\frac{1}{2}\%$ of what there is in the second bag. How much sugar is there in each bag? 6
8. If principal = ₹ 100000, rate of interest = 10% compounded half-yearly, find interest for 6 months and amount after 6 months. 6
9. During school hours, Neha finished 73% of her homework and Minakshi completed $\frac{5}{8}$ of her homework. Who must finish a greater per cent of homework? 6
10. Madhu's room measures 6m × 3m. Her carpet covers 8m². What per cent of floor is covered by the carpet? 6
11. If x varies inversely as y and $y = 60$ when $x = 1.5$, find x when $y = 4.5$. 6
12. If a deposit of ₹ 2000 earns an interest of ₹ 500 in 3 years, how much interest will a deposit of ₹ 36000 earn in 3 years with the same rate of simple interest? 6

Test

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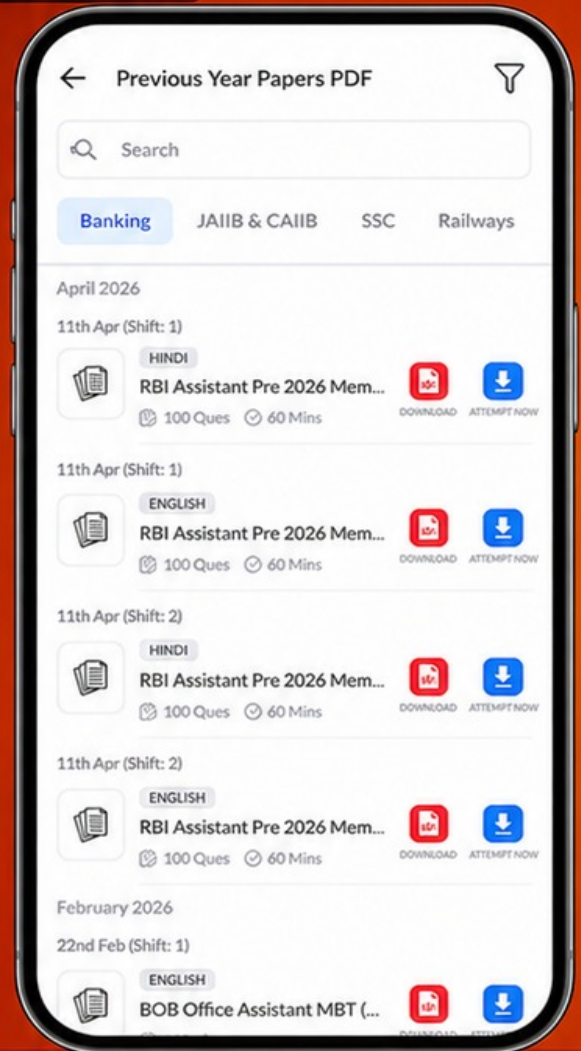
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13. Shabnam takes 20 minutes to reach her school, if she goes at a speed of 6 km/h. If she wants to reach school in 24 minutes, what should be her speed? 6
14. A boy is cycling such that the wheels of the cycle are making 140 revolutions per hour. If the diameter of the wheel is 60 cm, then calculate the speed (in km/h) with which the boy is cycling. 6
15. Two cubes have volumes in the ratio 1 : 64. Find the ratio of the areas of a face of first cube to that of the other cube. 6
16. On dividing ₹ 200 between A and B, such that twice of A's share is less than 3 times B's share by ₹ 200, what is B's share? 6
17. The population of a town 2 years ago was 62500. Due to migration to cities, it decreases at 4% per annum. Find its present population. 6
18. Divide ₹ 2324 among three children in the ratio $1\frac{1}{4} : 1\frac{1}{3} : \frac{7}{8}$. 6
19. A, B and C working separately can do a work in 2, 3 and 4 days respectively. If they all work together and earn ₹ 3900 for the whole work, how should they divide the money? 6
20. Taps A and B can fill a tank in 4 hours and 6 hours respectively and tap C (at the bottom) can empty it in 12 hours. If all the three taps are opened together when the tank is empty, find after how many hours the tank will be full. 6
-