

Sample Paper

1

Time : 90 Minutes

Max. Marks : 40

General Instructions

1. The Question Paper contains three sections.
2. Section A-READING has 18 questions. Attempt a total of 14 questions, as per specific instructions for each question.
3. Section B-WRITING SKILLS has 12 questions. Attempt a total of 10 questions, as per specific instructions for each question.
4. Section C-LITERATURE has 30 questions. Attempt 26 questions, as per specific instructions for each question.
5. All questions carry equal marks.
6. There is no negative marking.

READING SECTION

I. Read the passage given below: [1×8=8]

1. No treatment in the market today has been proved to slow human aging. But one intervention, consumption of a low-calorie yet nutritionally balanced diet, works incredibly well in a broad range of animals, increasing longevity and prolonging good health. Those findings suggest that caloric restriction could delay aging and increase longevity in humans too. But what if someone could create a pill that mimicked the physiological effects of eating less without actually forcing people to eat less, a 'caloric restriction mimetic'?
2. The best-studied candidate for a caloric-restriction mimetic, 2DG (2-deoxy-Dglucose), works by interfering with the way cells process glucose. It has proved toxic at some doses in animals and so cannot be used in humans. But it has demonstrated that chemicals can replicate the effects of caloric restriction; the trick is finding the right one.
3. Cells use the glucose from food to generate ATP (adenosine triphosphate), the molecule that powers many activities in the body. By limiting food intake, caloric restriction minimizes the amount of glucose entering cells and decreases ATP generation. When 2DG is administered to animals that eat normally, glucose reaches cells in abundance but the drug prevents most of it from being processed and thus reduces ATP synthesis. Researchers have proposed several explanations for why interruption of glucose processing and ATP production might retard aging. One possibility relates to the ATP-making machinery's emission of free radicals, which are thought to contribute to aging and to such age-related diseases as cancer by damaging cells. Reduced operation of the machinery should limit their production and thereby constrain the damage. Another hypothesis suggests that decreased processing of glucose could indicate to cells that food is scarce (even if it isn't) and induce them to shift into an anti-aging mode that emphasizes preservation of the organism over such 'luxuries' as growth and reproduction.

Based on your understanding of the passage, answer any eight out of the ten questions by choosing the correct option.

[1×8=8]

1. Consumption of a low-calorie and balanced diet worked well in a broad range of animals' _____.
(a) fleshy body growth (b) long life and good health
(c) nutritionally balanced diet (d) food habits
2. What can suspend aging and increase longevity in humans?
(a) caloric restriction (b) unbalanced diet
(c) high nutritious food (d) physiological effects
3. Name the phenomena (pill /supplement) of mimicking the physiological effects of eating less without actually forcing people to eat less.
(a) Balanced diet (b) Longevity in humans (c) pill (d) caloric-restriction mimetic

4. Which is considered as the best-studied candidate for a caloric restriction mimetic?
 - (a) 2-Deoxy-D- Glucose
 - (b) ATP
 - (c) 3DG
 - (d) Glucose
5. Why can't 2DG be used in humans?
 - (a) It was created only for animals
 - (b) It has proved toxic in animals
 - (c) It has proved toxic in humans
 - (d) It was created for non-humans
6. ATP is generated from glucose by _____.
 - (a) Food
 - (b) Adenosine
 - (c) Cells
 - (d) Molecule
7. _____ is reduced when 2DG is administered to animals that eat normally.
 - (a) Glucose
 - (b) ATP synthesis
 - (c) Drug
 - (d) Cell
8. The second hypothesis proposes that lessened processing of glucose could direct cells that food is scarce and give indication to change into _____ to preserve the organism from further growth.
 - (a) conservation
 - (b) damaging cells
 - (c) an anti-aging mode
 - (d) ATP production
9. Find the word from the passage which means the same as 'intake'. (para 1)
 - (a) Treatment
 - (b) Consumption
 - (c) Longevity
 - (d) Restriction
10. Find the word from the passage which means the same as 'duplicate'. (para 2)
 - (a) mimetic
 - (b) process
 - (c) demonstrate
 - (d) restrict

II. Read the passage given below:

1. Manav Singh had been farming his land for the past 20 years. His father had also been farming in the same land. But now he is unable to irrigate the agricultural land as the ground water level has gone down and the monsoon rains are also irregular. He has an option to connect the canal irrigation that the Government has initiated but is finding it difficult to implement the process. He knows that farmers world wide will need to increase crop production, either by increasing the amount of agricultural land to grow crops or by enhancing productivity on existing agricultural lands to meet the global demand.
2. However, the ecological and social trade-off of clearing more land for agriculture are often high, particularly in the tropics. And right now, crop yields the amount of crops harvested per unit of land cultivated are growing too slowly to meet the predicted demand for food. Even if some regions increase their output and traders reduce the mismatch between supply and demand, doubling food production by 2050 will undeniably be a major challenge.
3. Thus the last resort for farmers, Manav Singh thinks would be to grow more on the land that they currently operate through, what is called "sustainable intensification". This means using precision farming tools, such as GPS fertilizer dispenser, advanced irrigation systems, and environmentally optimized crop rotations. These methods can help produce more crop, especially in parts of Africa, Latin America and Eastern Europe with large yield gaps. They can also reduce the negative environmental impacts from over-stressing resources—preventing groundwater depletion and the destruction of fertile lands through over-use of fertilizer.
4. Net irrigated area (%) of India has increased from nearly 18 to 48% in recent times due to government interventions at various levels (Fig. 1). Although the government has given much emphasis on improving canal system in various five year plans but it has declined over years (Fig. 1). People have identified groundwater irrigation as much reliable and independent source of irrigation. Groundwater irrigation has taken quantum jump since 1965.

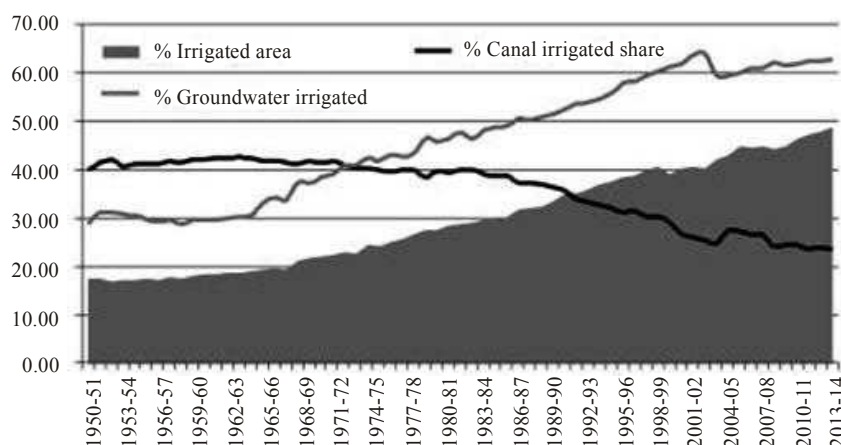


Fig. 1. Percent net irrigated to net sown area and per cent canal irrigated & per cent groundwater irrigated to net irrigated area (Source: based on data from DES, 2017-18); NIA %: Net Irrigated area to net sown area, GW %: Ground water share in net irrigated area, SW %: Surface water share in net irrigated area October-December 2019]

In order to attract more investments in agriculture, the risks need to be reduced by governments. Regulators need to overhaul policies that is affecting the inclusion of small, rural farmers into the financial system. More supportive policies, laws and public spending on infrastructure would help to create a favourable investment climate for agriculture.

Based on your understanding of the passage, answer any six out of the eight questions by choosing the correct option.

[1×6=6]

11. Which of the following pairs given in the options can conclude Paragraph 3 and start 4 respectively?
 (A) Over the last 30 years, investment in agriculture has declined resulting in low productivity and stagnant production.
 (B) Thus, as banking sectors in developing countries give fewer loans to farmers are bearing huge losses.
 (C) If we have to use methods extensively more agricultural research is needed which further highlights the need of investments in agriculture.
 (a) (C)-(A) (b) (C)-(B) (c) (A)-(B) (d) (B)-(A)
12. What does the author want to convey by, 'would help to create a favourable investment climate for agriculture' as mentioned in the passage in italics?
 (A) The climate conditions need to be improved to improve food production.
 (B) With supportive policies and laws investments in agriculture are likely to increase.
 (C) Lower returns in agriculture are the main reason behind low investment.
 (a) Only (A) & (C) (b) Only (A) & (B) (c) Only (B) (d) Only (B) & (C)
13. Which of the following is /are true according to passage?
 A. Paragraph 2 only highlights how food demand can easily be met in the near future.
 B. Rising food demand is likely to affect developed countries more severely than the developing countries.
 C. Increasing land under agriculture, can impact the ecology negatively.
 (a) Only A & B (b) Only B (c) Only C (d) Both A & C
14. What is the author's view about sustainable intensification mentioned in the paragraph-3?
 (a) It is only useful for countries which have small yield gaps.
 (b) It may increase food production to meet the rising demands.
 (c) It will have a tremendous negative impact on the environment.
 (d) It is hyped and may not work in the long run.
15. The graph indicates that the irrigation of agricultural land in India using canal system has
 (a) Increased through the years (b) Decreased through the years
 (c) Equal all these years (d) None of the above
16. Irrigation of agriculture land has increased in the recent years through:-
 (a) Rain water (b) Monsoonrain (c) Canal water (d) Ground water
17. What is the meaning of: optimized
 (a) add (b) broaden (c) increase (d) gather
18. Meaning of - challenge
 (a) skill (b) dare (c) try (d) accuse

WRITING

III. Answer any four out of the five questions given, with reference to the context below.

<p>St Columbus School NOTICE A. _____</p> <p>18th November 2021 This is to inform _____ B. _____ that I have lost my _____ C. _____ in our school playground area. The notes have a brown hard bound cover. If any one finds it please return them to _____ D. _____ or simply drop them in the Lost Property Dropbox.</p> <p>_____ E. _____</p>

19. Choose the most appropriate option to fill in the blanks:
 A.
 (a) regarding Geography lectures (b) displacement of geography notes
 (c) lost the geography notes (d) Geography notes lost

20. B.
 (a) you (b) the whole staff (c) all students and staff (d) the teachers
21. C.
 (a) geography notebooks (b) geography booking during the lunch break
 (c) geography notes during the lunch break (d) geography books in school
22. D.
 (a) class mentor (b) 12 class head (c) Monitor of 12A (d) students of class 12A
23. How will you conclude the notice ?
 (a) Thanks and signature. (b) Name followed by designation.
 (c) Designation followed by name. (d) Name and date.

IV. Answer any six of the seven questions given, with reference to the context below.

You are Bhavna / Banpreet Singh of B-1/5Kamla Nagar, Bhopal, who wants to sell his scooter and plans to buy a new one. Help him draft an advertisement for the sale of his old two wheeler, to be placed in the classified columns of a national daily.

A. _____
 B. _____ 2015 model dark blue scooter C. _____ with new tyres, quality seat covers, D. _____
 and giving good E. _____. Expected price of 15 thousand. Only genuine buyers F. _____.

24. Choose the appropriate option
 A.
 (a) Grand sale (b) Good vehicle for sale (c) Vehicle for sale (d) Two wheeler sale
25. B.
 (a) Scooty available for sale (b) Kinetic Honda available
 (c) Scooter for rent (d) Bajaj scooter for sale
26. C.
 (a) 9000 km single owner driven (b) single owner driven
 (c) 12000 km average self-driven (d) safely driven
27. D.
 (a) full tank (b) fully insured
 (c) good backup (d) fully operational
28. E.
 (a) condition (b) mileage (c) grip (d) power
29. F.
 (a) Contact Bhavna/Banpreet Singh (b) contact Bhavna/Banpreet Singh
 (c) contact B/B Singh, mobile 9293982791 (d) contact Bhavna/Banpreet Singh, mobile 9293982791
30. What kind of short writing skill is it ?
 (a) a notice (b) a circular
 (c) commercial advertisement. (d) classified advertisement.

LITERATURE

This section has sub-sections: V, VI, VII, VIII, IX. There are a total of 30 questions in the section. Attempt any 26 questions from the sub-sections V to IX.

V. Read the given extract to attempt questions that follow:

31. Franz was able to understand the grammar lesson easily because he was
 (a) receptive (b) appreciative
 (c) introspective (d) competitive
32. Why is M Hamel heartbroken?
 (a) Because no one is interested in his class. (b) Because he has to leave the country the next day.
 (c) Because he had no money. (d) Because his parents were no more.
33. Which of the following can be attributed to M Hamel's declaration about the French language?
 (a) subject expertise (b) loss of pride
 (c) factual accuracy (d) patriotic magnification

34. "I was amazed to see how well I understood it."
Select the option that does NOT explain why Franz found the grammar lesson "easy".
- (a) Franz was not paying careful attention in class this time.
(b) M. Hamel was being extremely patient and calm in his teaching.
(c) Franz was inspired and had found a new meaning and purpose to learning.
(d) Franz had realized that French was the clearest and most logical language.
35. M Hamel wanted to _____ the class for as long as possible on that day.
(a) keep (b) prolong (c) enjoy(d) end

VI. Read the given extract to attempt questions that follow:

In the extract from her book, the author analyses the grinding poverty and traditions which condemn these children to a life of exploitation.

36. 'But promises like mine abound in every corner of his bleak world'.
This suggests that
- (a) there is no dearth of promises which remain unfulfilled.
(b) there is a scarcity of people promising things for betterment.
(c) people make a lot of promises which are often fulfilled.
(d) promises made, live up to the expectations of people.
37. Choose the statement that is not true about ragpickers in Seemapuri.
- (a) Children are equally involved in rag picking as their parents.
(b) The ragpickers settle down in a place permanently.
(c) Rag picking has accomplished itself as a skill and form of art.
(d) Ragpickers live in unsteady shanties on the outskirts of Delhi.
38. The simile 'dream looms like a mirage amidst the dust of streets' indicates that his dream was
- (a) a reality, yet seemed distant. (b) lost in the sea of dust.
(c) illusory and indistinct. (d) hanging in the dusty air.
39. 'I will learn to drive a car,' he answers, looking straight into my eyes. This sentence highlights that Mukesh was
1. determined 2. fearless 3. hopeful 4. valiant
5. ambitious 6. stern
- (a) 1 & 5 (b) 2 & 4 (c) 2 & 5 (d) 3 & 6
40. Choose the term which best matches the statement 'The young men echo the lament of their elders.'
(a) acceptance (b) reiteration (c) reflection (d) doubtfulness

VII. Read the given extract to attempt questions that follow:

Poem extract:

Driving from my parent's
home to Cochin last Friday
morning, I saw my mother,
beside me,
doze, open mouthed, her face
ashen like that
of a corpse and realized with
pain
that she was as old as she
looked but soon
put that thought away...

41. Choose the option that best applies to the given extract. The poem is...
1. a conversation 2. an argument
3. a piece of advice 4. a strategy
5. a recollection 6. a suggestion
- (a) 1, 3 & 6 (b) 2, 4 & 5 (c) Only 5 (d) Only 1
42. Choose the option that displays the literary device used in the given lines:
'her face ashen like that of a corpse...'
- (a) personification (b) simile (c) metaphor (d) hyperbole

43. What is the most likely reason the poet capitalized 'Young Trees'?
- This was to
- (a) convey a clearer meaning. (b) highlight the adj.-noun combination.
(c) enhance the contrast. (d) Draw the connection with the title.
44. The phrase 'old familiar ache' can also be used to mean
- (a) compare physical pain with mental agony.
(b) elicit someone's unanswered queries.
(c) substantiate reasons for pains.
(d) the pain that was felt once in the past.
45. Choose the option that completes the sentence given below.
- Just as the brightness of the winter's moon is veiled behind the haze and mist, similarly, _____.
- (a) the pain of separation has shaded mother's expression.
(b) age has fogged mother's youthful appearance.
(c) growing up has developed a seasoned maturity in the poet.
(d) memories warm the heart like the pale moon in winter.

VIII. Read the given extract to attempt questions that follow:

"I wondered, Your Excellency," Sadao murmured. "It was certainly very careless of me," the General said. "But you understand it was not lack of patriotism or dereliction of duty." He looked anxiously at his doctor. "If the matter should come out you would understand that, wouldn't you?" "Certainly, Your Excellency," Sadao said. He suddenly comprehended that the General was in the palm of his hand and that as a consequence he himself was perfectly safe. "I swear to your loyalty, Excellency," he said to the old General, "and to your zeal against the enemy."

46. Pick the option that best describes the word 'dereliction' as used in the passage.
1. evasion 2. deterioration 3. negligence 4. carelessness
5. dilapidation 6. management.
- (a) 2, 3 and 6 (b) 1, 4 and 5 (c) 2, 4 and 6 (d) 1, 3 and 4
47. At the end of the conversation with the General, Sadao felt
- (a) rejuvenated and guilt-free. (b) conceited and egotistic.
(c) refreshed and self-conscious. (d) relieved and guilt-free.
48. Read the analysis of the General based on the given extract. Choose the option that fills in the given blanks most appropriately:
- The General (i) _____ power but is (ii) _____ of the obligations of his job. He is so (iii) _____ with his health that he forgets to send the assassins to kill the prisoner. Due to his (iv) _____ interests, he doesn't want to expose Sadao and agrees to keep the prisoner's escape a secret.
- (a) (i) fantasizes; (ii) lonely; (iii) consumed; (iv) vested
(b) (i) relishes; (ii) weary; (iii) self-absorbed; (iv) selfish
(c) (i) fancies; (ii) apathetic; (iii) negligent; (iv) worthless
(d) (i) desires; (ii) concerned; (iii) indisposed; (iv) narrow
49. Hana, working hard on unaccustomed labour, saw a messenger come to the door in official uniform. Her hands went weak and she could not draw her breath.
- Why is 'Hana working hard on unaccustomed labour'?
- (a) She is tired of serving the patient. (b) She is not a hard working woman.
(c) All the servants had left the job. (d) She wants to be habitual of working alone.
50. Pick the quote that best describes the theme of the story.
- (a) World belongs to us, not a leader, king or religious leader. World belongs to humanity.
(b) Humanity is an ocean; if a few drops of the ocean are dirty, the ocean does not become dirty.
(c) The purpose of human life is to serve, and to show compassion and the will to help others.
(d) To deny people their human rights during war is not right.

IX. Attempt the following

51. Why does Kamala Das 'smile and smile' in the poem?
- (a) Happy to return to work. (b) enjoyed the ride.
(c) to hide her fear from her mother. (d) happily bidding goodbye.

52. Why did Douglas want to overcome his fear of water?
(a) His father instructed him. (b) He had nightmares.
(c) Swimming instructor forced him. (d) to enjoy all the water sports.
53. Fill in the blank:
" Mukesh's dream of being a motor mechanic looms like a _____ amidst the dust of streets that fill his town Firozabad".
(a) balloon (b) mirage (c) dream (d) cloud
54. Dr. Sadao was a _____ as well as a dedicated surgeon.
(a) sturdy man (b) man of purpose (c) patriotic Japanese (d) patriotic brother
55. Dr. Sadao decides to treat the _____ soldier.
(a) boy (b) enemy (c) battered (d) white
56. "I landed in a sitting position, swallowed water, and went at once to the bottom".
Which place is the narrator talking about ?
(a) At Yakima with mother (b) At sea with father
(c) At YMCA pool (d) At pool with instructor
57. "All we have to fear is fear itself". What does the narrator learn from President Roosevelt's statement?
(a) To be deck the fear (b) To affright the fear
(c) To dispel the fear (d) To impede the fear
- IX. 'fishermen in cold sea would not harm
whales
And the man gathering salt
Would look
at his hurt hands.'
58. Why has the poet mentioned 'whales'?
(a) Whales are in the midsea
(b) Whales are huge and not afraid of men
(c) Whales are a symbol of man's destructive nature
(d) Whales are good fishes
59. Charley got to the 'Third level'. According to the lesson what are the things he did not see?
(a) The man in the booth wore a green eyeshade and long black sleeve protectors.
(b) A woman wore a dress with leg-of button sleeves and skirts.
(c) The World, the lead story said something about President Roosevelt.
(d) A man wore black four-button suit, and he had a big, black, handlebar moustache.
60. The story, 'The Last Lesson' highlights which human tendency?
(a) Male Chauvinism (b) Procrastination
(c) Courage (d) Nurturing

OMR ANSWER SHEET

Sample Paper No – 1

- ★ Use Blue / Black Ball pen only.
- ★ Please do not make any stray marks on the answer sheet.
- ★ Rough work must not be done on the answer sheet.
- ★ Darken one circle deeply for each question in the OMR Answer sheet, as faintly darkend / half darkened circle might be rejected.

Start time : _____	End time _____	Time taken _____
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1. Name (in Block Letters)

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2. Date of Exam

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3. Candidate's Signature

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SECTION-A

1.	(a)	(b)	(c)	(d)	7.	(a)	(b)	(c)	(d)	13.	(a)	(b)	(c)	(d)
2.	(a)	(b)	(c)	(d)	8.	(a)	(b)	(c)	(d)	14.	(a)	(b)	(c)	(d)
3.	(a)	(b)	(c)	(d)	9.	(a)	(b)	(c)	(d)	15.	(a)	(b)	(c)	(d)
4.	(a)	(b)	(c)	(d)	10.	(a)	(b)	(c)	(d)	16.	(a)	(b)	(c)	(d)
5.	(a)	(b)	(c)	(d)	11.	(a)	(b)	(c)	(d)	17.	(a)	(b)	(c)	(d)
6.	(a)	(b)	(c)	(d)	12.	(a)	(b)	(c)	(d)	18.	(a)	(b)	(c)	(d)

SECTION-B

19.	(a)	(b)	(c)	(d)	23.	(a)	(b)	(c)	(d)	27.	(a)	(b)	(c)	(d)
20.	(a)	(b)	(c)	(d)	24.	(a)	(b)	(c)	(d)	28.	(a)	(b)	(c)	(d)
21.	(a)	(b)	(c)	(d)	25.	(a)	(b)	(c)	(d)	29.	(a)	(b)	(c)	(d)
22.	(a)	(b)	(c)	(d)	26.	(a)	(b)	(c)	(d)	30.	(a)	(b)	(c)	(d)

SECTION-C

31.	(a)	(b)	(c)	(d)	41.	(a)	(b)	(c)	(d)	51.	(a)	(b)	(c)	(d)
32.	(a)	(b)	(c)	(d)	42.	(a)	(b)	(c)	(d)	52.	(a)	(b)	(c)	(d)
33.	(a)	(b)	(c)	(d)	43.	(a)	(b)	(c)	(d)	53.	(a)	(b)	(c)	(d)
34.	(a)	(b)	(c)	(d)	44.	(a)	(b)	(c)	(d)	54.	(a)	(b)	(c)	(d)
35.	(a)	(b)	(c)	(d)	45.	(a)	(b)	(c)	(d)	55.	(a)	(b)	(c)	(d)
36.	(a)	(b)	(c)	(d)	46.	(a)	(b)	(c)	(d)	56.	(a)	(b)	(c)	(d)
37.	(a)	(b)	(c)	(d)	47.	(a)	(b)	(c)	(d)	57.	(a)	(b)	(c)	(d)
38.	(a)	(b)	(c)	(d)	48.	(a)	(b)	(c)	(d)	58.	(a)	(b)	(c)	(d)
39.	(a)	(b)	(c)	(d)	49.	(a)	(b)	(c)	(d)	59.	(a)	(b)	(c)	(d)
40.	(a)	(b)	(c)	(d)	50.	(a)	(b)	(c)	(d)	60.	(a)	(b)	(c)	(d)

No. of Qns. Attempted		Correct		Incorrect		Marks	
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