



# DELHI PUBLIC SCHOOL VISAKHAPATNAM

## REVISION ASSIGNMENT

2025-26



Class: XII (Commerce)

Date of Submission: on or before 18.12.2025

### Subject: ENGLISH

Read the following passage carefully:

It is not merely a question of the knowledge that a man of culture will possess, but also of the habits and capabilities he will have acquired. In the course of education, the pupils' acquirements soon pass into habits; and this is perhaps the most important stage of the whole process. When a thought comes to have the same inevitability as a conditioned reflex, then the process of education is complete. But the habits that are acquired should not be too specific; they should be general habits of mind, such as those that lead to what is called "**intellectual curiosity**."

Intellectual curiosity is the habit of mind that leads a man to want to know, for the mere sake of knowing, and not from any practical motive. The knowledge that is acquired solely for its utility is always limited, and often leads to a premature stagnation of the mind. The most valuable intellectual habits are those that lead to the perception of unexpected relations between apparently disconnected things. Such habits are the main source of the pleasure to be derived from intellectual pursuits, and they are also a source of general wisdom.

There are certain mental habits which stand in the way of intellectual curiosity. One of the most important of these is the habit of being satisfied with vague ideas. Most people are content to have ideas that are practically serviceable, without concerning themselves with their logical clarity. An idea is useful if it is not *too* much mistaken; but if we are to derive the pleasure of intellectual pursuit, we must pursue an idea to the point of clarity. A second obstacle is the habit of yielding to the temptation to take sides in a controversy. The man who is perpetually concerned with proving that one side is right and the other wrong will inevitably lose the judicial temper which is essential to the discovery of truth.

The highest intellectual value lies in the discovery of new truth. This discovery requires a certain mental detachment, a certain freedom from the influence of desire, fear, and conventional expectation. The man who is enslaved by these forces may become learned, but he will not become wise. Wisdom is the perception of how best to achieve the ends of life, and this requires a kind of knowledge that transcends mere utility. The development of intellectual curiosity is therefore not only the path to wisdom, but also the path to that freedom of mind which is the distinguishing mark of a truly educated man.

– Bertrand Russell (Abridged from The Function of a University)

Based on your understanding of the passage, answer the questions given below.

(a) Which of these is the meaning of the word 'stagnation' as used in the second paragraph?

- i. development      ii. growth      iii. Renewal      iv. lack of activity or progress

(b) Which of these best describes the author's primary attitude towards "knowledge acquired solely for its utility"?

- i. supportive      ii. Cautious      iii. disinterested      iv. admiring

(c) What does the author mean by the statement: "When a thought comes to have the same inevitability as a conditioned reflex, then the process of education is complete." (Para 1)

- i. Education is complete when thinking becomes automatic and unconscious.  
ii. True education establishes fundamental thoughts as ingrained habits.  
iii. Education should prioritize physical reflexes over mental habits.  
iv. The process of learning should be simple and mechanical.

(d) According to the author, what is the main source of pleasure in intellectual pursuits?

- i. Acquiring practical knowledge for everyday utility.  
ii. The development of habits that lead to intellectual curiosity.  
iii. Recognizing surprising connections between unrelated concepts.  
iv. Achieving complete freedom from desire and fear.

(e) Which of the following is the author's perception of the habit of yielding to controversy?

- i. It is essential for strengthening one's convictions.
- ii. It leads to the judicial temper required for truth.
- iii. It is an obstacle to discovering truth due to loss of objectivity.
- iv. It contributes to intellectual curiosity and general wisdom.

(f) Select the response that best fits the following statement about the passage.

The author suggests that logical clarity is less important than practical serviceability for an idea to be useful.

Responses:

Yes - If the statement agrees with the information.

No - If the statement contradicts the information.

Not Given - If there is no information on this.

(g) Justify the importance of "**general habits of mind**" over "**specific acquirements**" in the context of the educational process described by the author. (2)

(h) State any one trait of the "**learned**" man that differentiates him from the "**wise**" man, and justify it with an example from the passage. (2)

(i) Explain the symbolic significance of the "**judicial temper**" in the context of discovering truth. (1)

(j) Based on the excerpt, which of these can be concluded about the author's view on Wisdom? (1)

- i. It is the ability to acquire maximum knowledge.
- ii. It is a form of knowledge that transcends practical utility.
- iii. It is achieved by proving one side of a controversy right.
- iv. It is identical to intellectual curiosity.

**2.** Attempt any one of the two, (a) and (b), in about 50 words. (4)

(a) You are Ankit/Ankita Sharma, the Head of the English Department, R.K. Public School. Write a notice for the school notice board informing the students of classes IX-XII about an Inter-School Debate Competition being organized. Mention the date, time, venue, and subject of the debate. Invent other necessary details.

OR

(b) You are S. Prakash/Priya, the Librarian of City Central Library. Write a notice for the library notice board informing members about the temporary closure of the library for two weeks due to necessary renovation and pest control work. Request cooperation and mention the last date for returning books. Invent necessary details.

**3.** Attempt any one of the two, (a) and (b). (4)

(a) You are Rohit/Rani Verma of 14, Ashoka Road, Nagpur. Your cousin's wedding is scheduled for next month. Design a formal invitation card (in not more than 50 words) to be sent to friends and relatives. Invent necessary details like the hosts' names, venue, and date.

OR

(b) You are Ms. Sunita Kapoor, a renowned environmentalist. You have received an invitation from the Eco Club of Green Valley School to be the keynote speaker at their Annual Environment Day celebration. Write a letter of refusal, expressing your inability to attend due to a prior commitment abroad.

**4.** Attempt any one of the two, (a) and (b). (5)

(a) You are Vishal/Vandana, residing at 25, Vasant Kunj, Delhi. Write a letter to the Editor of a national daily, highlighting the need for better maintenance of public parks and green spaces in urban areas. Emphasize their importance for the health and well-being of city residents. You may use the following cues. (120-150 words)

Importance	Lungs of the city — stress busters — safe zones for children and elders — community interaction
Current Issues	Neglected upkeep — broken benches/equipment — poor sanitation — encroachment by hawkers — lack of security
Suggestion	Community involvement — regular government inspection — dedicated park funds

OR

(b) Pioneer School, Sector 12, Chandigarh, requires a qualified and experienced TGT (Trained Graduate Teacher) for Science. You have seen their advertisement. Write an application in 120–150 words along with your resumé. You are Vikram/Veena Saini, residing at H-45, Phase 1, Mohali.

5. Attempt any one of the two, (a) and (b), in 120–150 words. (5)

(a) You are Karan/Kirti, a student of Class XII. You recently attended a one-day workshop on "Road Safety and Responsible Driving." Write a report on the event for your school newsletter, highlighting the key learnings and the importance of such workshops. Support your ideas with outline cues given below to craft your report.

- Date, venue, time
- Conducted by Traffic Police/NGO
- Interactive sessions (videos, demonstrations)
- Topics covered: Speed limits, distracted driving (phone use), helmet/seatbelt necessity
- Key message to be safe and responsible drivers

OR

(b) You are Anil/Anjali. Write an article for a local newspaper on the need for increased use of solar energy, titled "Harnessing the Sun: The Future of India's Energy Needs." Use the following cues, along with your own ideas, to compose this article.

Current Energy	Dependence on fossil fuels — pollution — resource depletion
Solar Advantages	Renewable — clean energy — reduces electricity bills — low maintenance — job creation
Challenges/Suggestion	High initial cost — need for government subsidies — community awareness

6. Reference to the context

*"In the next room, the patient's thin chest was heaving as if he had no reliance upon himself. 'When the Emperor is so anxious about the General,' she murmured, 'how can we think of anything but saving him?' 'In all my life I have never heard of a case like this,' murmured the General. 'My dear General,' Sadao said, 'I would not think of my life. I think of yours.'"*

(a) The 'patient' referred to here is:

- i. Dr. Sadao's sick servant    ii. The General    iii. The American prisoner    iv. Hana

(b) The General's anxiety is primarily for:

- i. The well-being of his Emperor    ii. The fate of the Japanese war effort    iii. His own survival and health    iv. Hana's safety

(c) Complete the given sentence appropriately:

Sadao's statement, "I would not think of my life. I think of yours," is an example of irony because

(d) The line "he had no reliance upon himself" reveals the General's:

- i. Physical weakness    ii. Emotional instability    iii. Self-centered nature    iv. Lack of faith in others

(e) What is the General's "astonishing" secret that Sadao learns during this conversation?

- i. The General has been exiled    ii. The General has a hidden illness that requires a sudden operation.    iii. The General is planning a rebellion    iv. The General knows Sadao has been hiding the prisoner.

(f) How does the General propose to have the problem of the prisoner solved?

- i. By calling the police    ii. By sending assassins to kill him    iii. By arranging for the American to escape    iv. By ignoring the whole incident

OR

*B. "The two men, a writer and a journalist, who were not expected to be talking to each other, seemed like the crossing of the planet Earth and the planet Mars in the realm of Gemini Studios. They found themselves seated opposite each other in a hall meant for a public address, but they could not understand why. The writer was talking about Communism, and the listeners, who usually wore khaki, were confused and impatient."*

(a) The 'two men' referred to here are:

- i. K.S. Subbu and the narrator    ii. The narrator and the office boy    iii. Stephen Spender and the narrator    iv. Stephen Spender and the narrator's colleague

(b) The comparison to the "crossing of the planet Earth and the planet Mars" highlights the contrast in:

- i. Physical size    ii. Intelligence and career    iii. Backgrounds and ideological views    iv. Social standing

(c) Complete the given sentence appropriately:

The listeners were 'confused and impatient' primarily because the speaker was discussing Communism and \_\_\_\_\_.

(d) What does the detail that the listeners "usually wore khaki" suggest about the general political alignment or background of the employees at Gemini Studios?

i. They were all members of the police force. ii. They supported Communism. iii. They were inclined towards Gandhism/a nationalist, anti-Communist ideology. iv. They were soldiers disguised as civilians.

(e) Why did the speaker's public address fail to engage the audience at Gemini Studios?

i. His English accent was too difficult to follow. ii. The audience was only interested in movies. iii. The speaker was too dull and monotonous. iv. The topic was alien and irrelevant to their interests.

(f) The phrase "realm of Gemini Studios" refers to:

i. The physical location of the studio ii. The creative environment iii. The established hierarchy iv. The political structure

### Subject: BUSINESS STUDIES

1. Jayant is holding one hundred shares of a company. He wants to sell them as he is in urgent need of money to settle his new house renovation expenses. Identify the type of market that he should approach to sell the shares.

(a) Primary market (b) Secondary market (c) Both (a) and (b) (d) None of the above

2. Which of the following statements is **not** true with regard to primary market?

(a) Is also known as the old issues market.

(b) It facilitates the transfer of investible funds from savers to entrepreneurs.

(c) It deals with new securities being issued for the first time.

(d) It facilitates the transfer of investible funds from savers to entrepreneurs.

3. Identify the mandatory detail which is required for opening a demat account.

(a) Residential address (b) PAN number (c) Date of birth (d) All of the above

4. Geet's grand mother gave her a gift packet on her birthday. Geet opened the packet and saw many wrinkly share certificates inside. Her grandmother told her that her grandfather had left them for Geet in his will. As no trading is now done in physical form Geet decides to open an account with Tradeshare.com in order to sell the shares.

Identify the process which will enable Geet to hold shares in electronic form.

(a) Demutualisation (b) Pay in day (c) Dematerialisation (d) None of the above

5. \_\_\_\_\_ is a career-oriented process.

(a) Training (b) Development (c) Education (d) All of the above.

6. Match the following by choosing the correct option.

Column A	Column B
(i) Trade test	(a) Defines the interests of the candidate
(ii) Personality test	(b) Evaluate the potential of a candidate in acquiring new skills and develop
(iii) Aptitude test	(c) Provide an insight in to a person's emotions, her reactions, maturity and value system etc.
(iv) Interest test	(d) Measure the knowledge, skills and proficiency that a candidate possesses with regard to a particular job position.

(a) (i)-(b); (ii)-(c); (iii)-(a); (iv)-(d)

(b) (i)-(b); (ii)-(d); (iii)-(a); (iv)-(c)

(c) (i)-(d); (ii)-(c); (iii)-(b); (iv)-(a)

(d) (i)-(c); (ii)-(d); (iii)-(a); (iv)-(b)

7. Assertion (A): Staffing is seen as a generic function of management.

Reason (R): Selection seeks to attract suitable applicants to apply for available jobs.

(a) Both the statements (A) and (R) are correct and (R) is the right explanation of (A).

(b) Both the statements (A) and (R) are correct but (R) is not the right explanation of (A).

(c) Statement (A) is correct but statement (R) is incorrect

(d) Both statements (A) and (R) are incorrect.

8. Sumit discloses to his friend Shrey that he wants to work as a plumber. Shrey tells him that the people seeking to enter skilled traits, to become, plumbers, electricians or iron-workers, are often required to undergo one form of training.

- (a) Apprenticeship training
- (b) Vestibule training
- (c) Internship training
- (d) All of the above

9. \_\_\_\_\_ may be defined as the framework within which managerial and operating tasks are performed.

- (a) Organisation structure
- (b) Delegation
- (c) Decentralisation
- (d) None of the above

10. 'Vishesh Ltd.' is popular company engaged in the business of selling rehabilitation equipments. It is planning to open two new outlets in the vicinity of two different hospitals respectively in next three months by taking the place on lease.

Identify the factor affecting fixed capital requirements of the company.

- (a) Level of collaboration
- (b) Financial alternatives
- (c) Nature of business
- (d) Technology up gradation

11. The concept which is concerned with optimal procurement as well as usage of finance.

- (a) Capital structure
- (b) Financial Planning
- (c) Financial management
- (d) All of the above

12. Which of the following is not an element of delegation of authority

- (a) Authority
- (b) Decentralisation
- (c) Responsibility
- (d) Accountability

13. State any three points of importance of management.

14. 'Planning is certainly important as it tells us where to go, it provides direction and reduces the risk of uncertainty by preparing forecasts.' This statement enumerates some of the points highlighting the importance of planning. State any three points of importance of planning not mentioned in the statement.

15. Shubh Garments Ltd. are the manufacturers of 'Ladies Designer Suits' with their own trade mark. The company now needs to employ senior technicians to work on machines imported from France for manufacturing of 'Ladies Designer Suits' for fashion shows. Advise the company about any three types of selection tests, that may be used for selecting the desired technicians.

16. Yash Ltd. is a garment company having 4,000 employees. All its employees take things easy and are free to approach any one for minor queries and problems. Everyone is seen talking to each other resulting in inefficiency in its offices. It has also resulted in loss of secrecy and confidential information being leaked out. Because of this the operations of the company are disturbed and its revenue has declined. Explain any three measures that the manager should adopt to improve communication system of 'Yash Ltd.'

17. Luv has decided to start a professional acting school after completing a course from Royal Central School of speech and drama, University of London. His friend Shubhama devised him about one particular function of management saying that attitude, aptitude, commitment, loyalty are perceived as important qualities by all types of organizations because the right people can help you take your business to the top; the wrong people can break your business. State any four benefits of the function of management being referred to by Subham.

18. Explain the steps in the controlling process.

19. Deepak is doing a diploma course in marketing management. In the last class his teacher had explained to them that there are large number of factors affecting marketing decisions, which can broadly be divided into two categories: (i) controllable factors, and (ii) non-controllable factors.

Based on this discussion, each student has been asked to prepare a start up business plan highlighting those controllable factors which can be influenced at the level of the firm, to achieve marketing success. Deepak has decided to prepare a business plan for the launch of organic bakery products.

Describe briefly the various controllable factors that Deepak will consider while preparing his start up business plan.

20. New Delhi is the most polluted city in the world and statistics reveals that India has 14 out of 15 most polluted cities in the world. This has resulted into a dramatic increase in the sale of home air purifiers. Keeping in view the increasing demand of these air purifiers 'Sudh Hawa Ltd.' has developed a low cost home air purifier in its R & D Lab. The prices of these devices range from ₹2,000 to ₹5,000 depending upon the type of pollutant these purifiers remove. The company has estimated that a commercial production of 2,00,000 units per year may cost the company ₹700 per

unit. For this capital of ₹35 crores will be required. The company decided to have both equity and debt in its capital structure. Explain any four factors that the company should consider while deciding its capital structure.

21. This type of organizational structure leads to occupational specialization since emphasis is placed on specific functions. Identify the type of organizational structure being referred to in the above lines. State any five other points highlighting its advantages.

### Subject: ACCOUNTANCY

1. Sohan and Mohan are partners sharing profits and losses in the ratio of 2:3 with the capitals of ₹5,00,000 and ₹6,00,000 respectively. On 1<sup>st</sup> January, 2024, Sohan and Mohan granted loans of 20,000 and 10,000 respectively to the firm. Determine the amount of loss to be borne by each partner for the year ended 31<sup>st</sup> March, 2024 if the loss before interest for the year amounted to ₹2,500.

- (a) Share of Loss: Sohan- ₹1,250; Mohan- ₹1,250. (b) Share of Loss: Sohan- ₹1,000; Mohan- ₹1,500.  
(c) Share of Loss: Sohan- ₹820; Mohan- ₹1,230. (d) Share of Loss: Sohan- ₹1,180; Mohan- ₹1,770.

2. Ram and Shyam are partners in a firm sharing profits in the ratio of 3:2. They admitted Mohan as a partner for 1/4<sup>th</sup> share in the profits of the firm. Mohan brings ₹1,00,000 for his share of goodwill. Following entry is passed when Mohan's share pf goodwill is credited to sacrificing partners:

#### JOURNAL

Date	Particulars	L.F.	Dr.(₹)	Cr.(₹)
	Premium for Goodwill A/c		1,00,000	
	To Ram's Capital A/c			40,000
	To Shyam's Capital A/c			60,000
	(Mohan's share of goodwill credited to sacrificing partners)			

New profit-sharing ratio of Ram, Shyam and Mohan will be

- (a) 5:4:3 (b) 5:1:2 (c) 7:5:4 (d) 2:1:1

3. Select the correct order to match the following with their correct meaning

#### Column A

#### Column B

- (i) Gaining Ratio 1. Ratio in which partners share profits and losses before the reconstitution of firm.  
(ii) Old Profit-sharing Ratio 2. Ratio in which partners take the share from other partners.  
(iii) Sacrificing Ratio 3. Ratio in which partners sacrifice their profit share in favour of other partners.  
4. Ratio which partners share the future profits and losses.

- (a) (i) 2, (ii) 3, (iii) 4. (b) (i) 4, (ii) 2, (iii) 1. (c) (i) 2, (ii) 1, (iii) 3. (d) (i) 1, (ii) 2, (iii) 3.

4. Assertion (A): A firm should have a Partnership Deed.

Reason (R): In case, any dispute or any misunderstanding arises among partners, Partnership Deed helps in resolving the disputes.

In the context of above statements, which of the following is correct?

- (a) Assertion (A) is correct but Reason (R) is incorrect.  
(b) Both Assertion (A) and Reason (R) are correct, but Reason (R) is not the correct explanation of Assertion (A).  
(c) Both Assertion (A) and Reason (R) are incorrect.  
(d) Both Assertion (A) and Reason (R) are correct, and Reason (R) is the correct explanation of Assertion (A).

5. (A) An equity share of ₹10 fully called-up on which ₹6 has been paid was forfeited for the non-payment of the balance amount. At which of the following minimum price can it be reissued?

- (a) ₹4 (b) ₹10 (c) ₹16 (d) ₹6

6. (A) X, Y and Z who are presently sharing profits and losses in the ratio of 5:3:2 decide to share profits and losses in the ratio of 2:3:5 with effect from 1<sup>st</sup> April, 2024. Workmen Compensation Reserve exists at ₹12,000 in the Balance Sheet as at 31<sup>st</sup> March, 2024.

At the time of reconstitution, certain amount of claim on Workmen Compensation was determined for which Y's share of loss was ₹3,150. The claim for workmen Compensation is

- (a) ₹15,000 (b) ₹16,000 (c) ₹18,000 (d) ₹22,500

7. When a partner draws a fixed sum for 12 months at the beginning of each month, interest on drawings (at an agreed rate) will be equal to interest for \_\_\_\_\_.

- (a) 5.5 months (b) 4.5 months (c) 6 months (d) 6.5 months

8. (A) A building was purchased by Rajesh Ltd. for ₹11,00,000 from Mohan. Rajesh Ltd. issued 9% Debentures of ₹100 each against purchase consideration at a premium of 10%. 9% Debentures Account is credited by

(a) ₹11,00,000

(b) ₹12,10,000

(c) ₹10,00,000

(d) ₹11,90,000

9. Manish, a partner of dissolved firm was to get as his remuneration 1% of value of assets realized and 10% of the amount distributed to the partners.

Sundry Assets realised ₹5,00,000, Creditors to be paid ₹2,25,000, Cash at Bank ₹5,000.

You are required to calculate Manish's remuneration and also pass the Journal entry for his remuneration.

10. Chander and Damini are partners in a firm sharing profits in the ratio of 3:2. They admitted Elina as a partner and agreed new profit-sharing ratio as 3:3:2. At the time of admission of Elina, Debtors and Provision for Doubtful Debts were ₹95,000 and ₹10,000 respectively, ₹7,500 of the debtors became bad.

A provision of 5% is to be required on Sundry Debtors for doubtful debts.

Pass the necessary Journal entries.

11. On 1<sup>st</sup> April, 2024, Mohit Ltd. took over assets of ₹10,80,000 and Liabilities of ₹80,000 of Asim Ltd. at an agreed value of ₹10,40,000. Mohit Ltd. paid to Asim Ltd. 25% by a cheque and the balance by an issue of 9% Debentures of ₹500 each at a premium of 4% redeemable at a premium of ₹30 per debenture.

Pass the necessary journal entries in the books of Mohit Ltd. on 1<sup>st</sup> April, 2024.

12. Ram, Shyam and Rahim are partners in a firm sharing profits in the ratio of 3:2:1. Their Balance Sheet as at 31<sup>st</sup> March, 2024 was as follows:

Liabilities	₹	Assets	₹
Creditors	26,000	Cash-in-hand	4,250
General Reserve	12,000	Cash at Bank	21,450
Ram's Capital	20,000	Debtors	16,300
Shyam's Capital	12,000	Stock	1,750
Rahim's Capital	8,000	Investments	13,250
		Building	21,000
	78,000		78,000

Shyam died on 30<sup>th</sup> June, 2024 and as per the Partnership Deed his executors are entitled to:

(i) The capital to his credit at the time of his death and interest thereon @ 10% per annum.

(ii) Share of General Reserve.

(iii) Share of profit for the intervening period will be based on the sales during the period. Sales were calculated as ₹1,20,000. The rate of profit during past three years has been 10% on sales.

(iv) Goodwill according to share of profit to be calculated by taking *twice* the amount of profit of the last three years *less* 20%. The profits for the previous 3 years were:

I- ₹8,200; II- ₹9,000; III- ₹9,800.

The investment were sold at par and executors were paid out in full.

Prepare Shyam's Capital Account and Shyam's Executor's Account.

13. Hi-tech Ltd. issued 10,000, 9% Debentures of ₹100 each at 6% premium, redeemable at 10% premium after 5 years, payable as ₹60 on application and the balance on allotment (including premium). The Debentures were oversubscribed by 1,000 debentures and allotment was made on *pro rata* basis. All money was duly received.

Pass the necessary Journal entries for issue of debentures and writing off loss on issue of debentures. Prepare Loss on Issue of Debentures Account.

14. Cash Revenue from Operations (Cash Sales) 60% of Credit Revenue from Operations (Credit Sales). Revenue from Operations ₹5,20,000, Closing Trade Receivables ₹80,000, Opening Trade Receivables 3/4<sup>th</sup> of Closing Trade Receivables. Compute Trade Receivables Turnover Ratio.

Calculate Operating Profit Ratio if Operating Ratio is 20%.

15. Calculate Cash Flow from Investing Activities for the year ended 31<sup>st</sup> March, 2024 from the following Information:

Particulars	31 <sup>st</sup> March, 2024 (₹)	31 <sup>st</sup> March, 2023 (₹)
Plant and Machinery	15,00,000	12,00,000
Accumulated Depreciation	(2,40,000)	(1,80,000)
12% Investments	4,00,000	3,00,000
Goodwill	1,20,000	1,50,000
Patents	1,50,000	1,20,000

Additional Information:

1. During the year ended 31<sup>st</sup> March, 2024, Machinery costing ₹1,50,000 was sold at a loss of ₹30,000.
2. Depreciation charged during the year was ₹1,00,000.
3. Additional Investments were purchased on 1<sup>st</sup> July, 2023.

### **Subject: ECONOMICS**

#### **PART-A (Microeconomics)**

1. If MPS is 0.50 and initial change in investment is Rs.150, then final change in income will be\_\_\_\_\_.
2. Assertion (A): Public goods are those goods that are collectively consumed by the public.  
Reason (R): Public goods are excludable and rivalrous in nature
  - a. Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A).
  - b. Both Assertion (A) and Reason (R) are true and Reason (R) is not the correct explanation of Assertion (A).
  - c. Assertion (A) is true and Reason (R) is false.
  - d. Assertion (A) is false and Reason (R) is true.
3. The 45 degree line in Keynesian economics indicates \_\_\_\_\_.
  - a. Income > Consumption
  - b. Saving > Investment
  - c. Consumption > income
  - d. Income = Consumption
4. Statement-I: The maximum value of MPC can be  
Statement-II: As the income of the economy increases, the proportional increase in the level of consumption is always more than increase in the level of income.
  - a. Both the Statements are true.
  - b. Both the Statements are false.
  - c. Statement-I is true and Statement-II is false.
  - d. Statement-I is false and Statement-II is true.
5. National income measures the:
  - a. Total output produced within a country
  - b. Total financial assets of the nation
  - c. Total factor income earned by residents of a country
  - d. Total savings of households
6. M1= Currency + \_\_\_\_\_
  - a. Net demand deposits
  - b. Savings with Post office.
  - c. Net time deposit of commercial banks
  - d. Total deposits with Post office saving banks
7. Which of the following leads to Market Price?
  - a. Factor cost- Indirect Tax
  - b. Factor cost + Indirect Tax
  - c. Factor cost- Net Indirect Tax
  - d. Factor cost + Net Indirect Tax
8. a.If Nominal GDP = Rs.625 cr; Price Index = 125, find Real GDP  
b. If Real GDP = Rs.845cr; Price Index = 120, find Nominal GDP  
c. If Real GDP = Rs. 150.64cr; Nominal GDP = Rs.245.36cr, find GDP deflator
- 9 . According to Union Budget2023-24, the total receipts of the government (other than borrowings), and the total expenditure are estimated as Rs.20 cand Rs.45lakh crore respectively. The value of \_\_\_\_\_ deficit would be Rs.25 lakh crore.
  - a. Revenue.
  - b. Fiscal
  - c. Trade.
  - d. Primary
10. What could be the potential impact of this on the foreign exchange rate in the context of the Indian economy?
11. Define Great leap forward and Commune system of farming
12. Compare and analyse the given data of distribution of workforce in 2018- 19 with valid reason.
 

Country	Agriculture (%)	Industry (%)	Service (%)
India.	43	25	32
China	26	28	46
Pakistan	41	24	35
13. Has one child policy adopted in China succeeded in its aim?
14. What are the functions of environment?
15. What is sustainable development? Describe any four strategy of sustainable development
16. Write and explain Fiscal deficit, Primary deficit and Revenue deficit
17. 'In India, the self employed constitute around 60% employees. The possible incidence of underemployment is highest among the self-employed.' Suggest any two measures that may be taken to more productive employment for the self- employed.
18. Diversification of crop production minimises market risks due to price fluctuation.



19. Elaborate how the economic reforms process of India impacted Agricultural and Industrial sectors.

20.a. Calculate Compensation of employees from the following data:

Items	Rs. in crores
Profit after tax	20
Interest	45
GDPmp	200
GST	10
Consumption of fixed capital	40
Rent	25
Corporation tax	5

### Subject: MATHEMATICS

1 Determine whether the below relation is reflexive, symmetric and transitive:

Relation R in the set  $A = \{1, 2, 3, 4, 5, 6\}$  as  $R = \{(x, y) : y \text{ is divisible by } x\}$

2 Show that the relation R in the set Z of integers given by

$R = \{(a, b) : 2 \text{ divides } a - b\}$  is an equivalence relation.

3 Find the principal value of  $\cos^{-1}\left(\frac{1}{2}\right)$ .

4 Find the value of  $\tan^{-1}(1) + \cos^{-1}\left(-\frac{1}{2}\right) + \sin^{-1}\left(-\frac{1}{2}\right)$

5 Let  $A = \begin{bmatrix} 1 & -2 & 3 \\ -4 & 2 & 5 \end{bmatrix}$  and  $B = \begin{bmatrix} 2 & 3 \\ 4 & 5 \\ -2 & 1 \end{bmatrix}$  Find AB and BA, and show that  $AB \neq BA$ .

6 If  $A = \begin{bmatrix} \cos\theta & \sin\theta \\ -\sin\theta & \cos\theta \end{bmatrix}$ , then prove that  $A^n = \begin{bmatrix} \cos n\theta & \sin n\theta \\ -\sin n\theta & \cos n\theta \end{bmatrix}$

7 If  $A = \begin{bmatrix} 1 & 3 & 3 \\ 1 & 4 & 3 \\ 1 & 3 & 4 \end{bmatrix}$  then verify that  $A \text{ adj } A = |A| I$ . Also find  $A^{-1}$

8 Differentiate  $x^{\sin x}$ ,  $x > 0$  w.r.t.  $x$ .

9 If  $e^y (x + 1) = 1$ , show that  $\frac{d^2y}{dx^2} = \left(\frac{dy}{dx}\right)^2$

10 Find the points of local maxima or local minima and corresponding values of local maximum and local minimum values of each of the function. Also, find the points of inflection, if any:

$f(x) = (x + 1)(x + 2)^{\frac{1}{3}}, x \geq -2$ .

11 Find the interval in function  $f(x) = x^2 + 2x - 5$  is increasing or decreasing.

12 Find:  $\int \frac{x^2 + x + 1}{(x+1)^2(x+2)} dx$

13 Find the area of the region bounded by the curve  $y = \sqrt{1 - x^2}$ , line  $y = x$  and the positive  $x$ -axis.

14 Solve the differential equation:  $x\sqrt{1 - y^2}dx + y\sqrt{1 - x^2}dy = 0$

15 Find the projection of the vector  $\hat{i} + 3\hat{j} + 7\hat{k}$  on the vector  $7\hat{i} - \hat{j} + 8\hat{k}$

16 If  $\vec{a} = \hat{i} + 2\hat{j} + 3\hat{k}$  and  $\vec{b} = 2\hat{i} + 4\hat{j} - 5\hat{k}$  represent two adjacent sides of a parallelogram, find unit vectors parallel to the diagonals of the parallelogram.

### Subject: ARTIFICIAL INTELLIGENCE

A. Short answer questions.

1. What is storytelling and why is it important?

2. "Stories create engaging experiences that transport the audience to another space and time". Justify. How does data storytelling enhance global networking?

[CBSE]

3. What are the steps involved in creating a good story?

4. What is the importance of a narrative in a story?

[CBSE]

5. Name the essential elements of data storytelling.

6. What is the difference between conflict and resolution?

7. Data can be persuasive, but stories are much more than that. Explain.

[CBSE]

8. How does data storytelling engage audiences?

9. Name some graphs that can be used for the following types of data.

a. Text data   b. Data which is changing constantly over a period of time   c. Stocks variation   d. Mixed data

10. Describe Freytag's Pyramid and its application in data storytelling.

11. Discuss the ethical considerations in data storytelling.

12. Name any two factors that make storytelling powerful.

[CBSE]

Long answer questions.

1. Mention any four reasons due to which data storytelling has acquired a place of importance.

[CBSE]

2. Explain data visualisations on different types of data.

3. Consider the following graph. Mention the steps that can assist in finding compelling stories in the datasets.

[CBSE]

### **Subject : PHYSICAL EDUCATION**

What are the methods to improve:

Strength

Speed

Endurance

Flexibility