TIME- 3 HRS.   **MM. 80**

GENERAL INSTRUCTIONS:
1. ALL QUESTIONS ARE COMPULSORY.
2. FOLLOW THE INSTRUCTIONS GIVEN WITH ALL QUESTIONS.

SECTION A
READING   **(26 MARKS)**
Q1. Read the passage given below.   **10M**

1. Long years ago, sometimes it seems many lives ago, I was at Oxford listening to the radio program Desert Island Discs with my young son Alexander. It was a well-known program (for all I know it still continues) on which famous people from all walks of life were invited to talk about the eight discs, the one book beside the Bible and the complete works of Shakespeare, and the one luxury item they would wish to have with them were they to be marooned on a deserted island. At the end of the program, which we had both enjoyed, Alexander asked me if I thought I might ever be invited to speak on Desert Island Discs. "Why not?" I responded lightly. Since he knew that in general only celebrities took part in the program, he proceeded to ask, with genuine interest, for what reason I thought I might be invited. I considered this for a moment and then answered: "Perhaps because I'd have won the Nobel Prize for Literature," and we both laughed.

The prospect seemed pleasant but hardly probable. (I cannot now remember why I gave that answer, perhaps because I had recently read a book by a Nobel Laureate or perhaps because the Desert Island celebrity of that day had been a famous writer.)

2. In 1989, when my late husband Michael Aris came to see me during my first term of house arrest, he told me that a friend, John Finnis, had nominated me for the Nobel Peace Prize. This time also I laughed. For an instant Michael looked amazed, then he realized why I was amused. The Nobel Peace Prize? A pleasant prospect, but quite improbable! So how did I feel when I was actually awarded the Nobel Prize for Peace? The question has been put to me many times and this is surely the most appropriate occasion on which to examine what the Nobel Prize means to me and what peace means to me.

3. As I have said repeatedly in many interviews, I heard the news that I had been awarded the Nobel Peace Prize on the radio one evening. It did not altogether come as a surprise because I had been mentioned as one of the front runners for the prize in a number of broadcasts during the previous week. While drafting this lecture, I have tried

very hard to remember what my immediate reaction to the announcement of the award had been. I think, I can no longer be sure, it was something like: "Oh, so they've decided to give it to me." It did not seem quite real because in a sense I did not feel myself to be quite real at that time.

On the basis of your understanding of the passage, answer ANY TEN questions from the eleven that follow. **(1×10 = 10)**

1. Desert Island Discs was a:
a. Television program
b. Series of interviews of celebrities.
c. Radio program
d. Reading of the Bible.

2. The 'eight discs' probably refer to:
a. Flying discs or frisbees with which the marooned person can play on the island.
b. Musical tracks.
c. Eight plates for serving food.
d. Eight disc-like objects that the marooned person is fond of and would like to have on the island.

3. What prospect made the author and her son laugh?
a. The author could be invited to the Desert Island Discs show.
b. The author could be a famous writer.
c. The author could win the Nobel Prize for Literature.
d. The author could win the Nobel Peace Prize.iv.

4. Which two kinds of book could the guests on the show not take with them to the deserted island?
a. The Bible and their autobiography.
b. A play of Shakespeare and the Bible.
c. All works of Shakespeare and the Bible.
d. All works of Shakespeare and books by Nobel Laureates.

5. What is the question that has been put to the author many times?
a. Will she be invited to the Desert Island Discs show?
b. Will she be given the Nobel Prize for Literature?
c. Who nominated her for the Nobel Peace Prize?
d. How did she feel when she was awarded the Nobel Prize for Peace?

6. Why wasn't the author surprised when she heard that she had been awarded the Nobel Peace Prize?

a. She knew that she was one of the front runners for the prize.
b. She was sure her nomination by John Finnis would get her the prize.
c. She had heard a number of broadcasts during the previous week which predicted her win.
d. She was under house arrest, and nothing affected her anymore.

7. How do we know that Desert Island Discs was a popular radio program?
a. All celebrities used to come on the show.
b. It was still running years later when the author was writing the lecture of which the passage is a part.
c. The author and her son enjoyed it.
d. Everyone found the idea of being marooned on an island improbable but pleasant.

8. What news did the author receive in 1989?
a. She had been awarded the Nobel Peace Prize.
b. Her late husband had come to meet her.
c. She had been nominated for the Nobel Peace Prize.
d. She would be placed under house arrest.

9. 'Marooned' in para 1 means:
a. Disowned
b. Isolated
c. Socially well connected
d. Made to live in a healthy environment

10. 'Genuine' in para 1 means:
a. Unreal feelings
b. Pretence
c. Honestly felt
d. Inspirited

11. 'Appropriate' in para 2 means:
a. Suitable
b. Inapt
c. Peaceful
d. Unexpected

Q2. Read the text carefully and answer the questions: **8M**

1. Millions of tons of small waste from plastic bags, bottles and clothes in the world's ocean present a serious threat to human health and marine environment. This is a

warning issued by the U.N. in a report on the most dangerous environmental problem facing the world today. Global plastic production has increased considerably in years nearly by 38%.

2. A poor waste management means when we have finished with our takeaways contains cigarette butts and party balloons, they are worn down into trillions of even small particles by the waves. Therefore, there is a growing presence of these micro plastic the world's oceans.

3. It was estimated in 2010 that millions of tons of plastic was washed into the season have since shown up in the stomachs of whales, plankton and other marine life. Richard Thompson, professor of marine biology said that in laboratory experiments the proof that micro plastic an cause harm to organisms.

4. More than a quarter of all fish now contained plastic, according to a recent study why analysed the guts of fish sold in California. Scientist fear that chemical sin plastician also chemicals which attach themselves to plastic in natural environment could each poisoning and many disorders in marine lie if consumed in huge quantities.

5. Even human could be adversely affected by the plastic. People could even be breathing in plastic micro-particles suspended in the air with the risk of harmful effect on the lungs similar to air fumes.

6. Volunteers around the world collect trash and tally up what they find on the fall in Ocean's Conservancy's Annual International Coastal Cleanup. The result item-by-item, location-by-location Ocean Trash Index provides the only snapshot of marine debris littering coasts and waterways around the world, according to Ocean Conservancy.

7. Boyance Slat, a Dutch student has developed a technology that could sift dangerous plastic particle out of the ocean and sell them for profit or re-cycling. Richard Thompson recommended that people avoid using products with micro beads and to make sure they dispose of all plastic products in a appropriate way by, if possible.

2,117,931 Cigarettes	1,140,222 Food Wrappers/Containers
1,065,171 Plastic Beverage Bottles	1,019,902 Plastic Bags
958,893 Caps/Lids	692,767 Cups/Plates/Cutlery
611,048 Straw/Stirrers	521,730 Glass Beverage Bottles
339,875 Beverage Cans	298,332 Paper Bags

i. Select the option that is true for the two statements given below.
(1) More than a quarter of all fish now have plastics present in them.
(2) Millions of tons of plastic waste is present in the world's oceans.

1. (1) is the result of (2)
2. (1) is the reason for (2)
3. Both (1) and (2) are true
4. (1) contradicts (2)

ii. According to the passage, Richard Thompson is a _____ .

iii. _____ provides the only snapshot of marine debris littering coasts and waterways.

iv. Through what does the cigarette butts and party balloons worn down into smaller particles?

v. We can find out that more than a quarter of all fish contained plastics in them by:

1. the stark warming issued by the UN in a report on the most dangerous environmental problems facing the world today.
2. collecting trash and tallying up what they find each day.
3. laboratory experiments performed by Richard Thompson a profession marine biology.
4. analysing the fish sold in California.

vi. Choose the correct set of statement which is NOT TRUE.
(I) Plastic could have similar effects like car fumes.
(II) Chemicals which attach themselves to plastic in natural environment could cause poisoning in marine life.
(III) Humans will never be adversely affected by the plastic.
(IV) In 2001, Millions of tons of plastic was washed into the sea.
(V) There is a growing presence of micro plastics in the world's oceans.
1. (II), (V)
2. (I), (V)
3. (I), (II)

4. (III), (IV)

vii. What amount of paper bags in the index are diffused into the oceans?
viii. Fill in the blank with with the correct option.
There are _____ beverage cans found in the index.
1. 337,865
2. 339,875
3. 339,445
4. 333,347

Q3. Read the passage carefully.   **8M**
1. Conversation is indeed the most easily teachable of all arts. All you need to do in order to become a good conversationalist is to find a subject that interests you and your listeners. There are, for example, numberless hobbies to talk about. But the important thing is that you must talk about other fellow's hobby rather than your own. Therein lies the secret of your popularity. Talk to your friends about the things that interest them, and you will get a reputation for good fellowship, charming wit, and a brilliant mind. There is nothing that pleases people so much as your interest in their interest.

2. It is just as important to know what subjects to avoid and what subjects to select for good conversation. If you don't want to be set down as a wet blanket or a bore, be careful to avoid certain unpleasant subjects. Avoid talking about yourself, unless you are asked to do so. People are interested in their own problems not in yours. Sickness or death bores everybody. The only one who willingly listens to such talk is the doctor, but he gets paid for it.

3. To be a good conversationalist you must know not only what to say, but how also to say it. Be mentally quick and witty. But don't hurt others with your wit. Finally try to avoid mannerism in your conversation. Don't bite your lips or click your tongue, or roll your eyes or use your hands excessively as you speak.

4. Don't be like that Frenchman who said, "How can I talk if you hold my hand?"

3.1 Make notes on the contents of above paragraph, using abbreviations. Supply a suitable title also.   5M
3.2 Make a summary of the passage.   3M

SECTION – B GRAMMAR AND CREATIVE WRITING (23 MARKS)

Q.4 Fill in the blancks with correct form of the verb.

1. After Howard _____ his studies he intends to work in his father's company. (FINISH)

2. I _____ the instructions on the test sheet when the headmaster came in and wished all of us good luck. (READ)

3. By the time I finish my thesis I _____ on it for over three years. (WORK)

4. Ancient Greek athletes received a wreath of olives after they _____ a race. (win)

Q5. Rearrange the following words or phrases to make meaningful sentences: 3M

1. a/ lover/ is/ animal/ passionate/ he
2. campaigned/ birds/ he/ caged/ free/ to
3. to/ her/ first/ Sudha/ stand/ hard/ class/ is/ studying/ in

Q6. You are Ram/Rajani. Draft a classified advertisement, in not more than 50 words, to be published in India Times for the sale of a used motor car giving all the necessary details. You can be contacted at 12345679.   3M

OR

You are Vikram/Sonia, an Honours's graduate in history with specialization in Medieval India. You are well acquainted with places of historical interest in Delhi, Agra and Jaipur. You are looking for the job of tourist guide. Write an advertisement in about 50 words for the situations wanted column of a local newspaper. Your contact no. 999751234.

Q7. Design a poster on the topic "Say No To Plastics."   3M

OR

Design a poster on the topic "Save Water."

Q8. As Mukul / Mahima of Alps Public School, write a speech to be delivered in school assembly highlighting the importance of cleanliness suggesting that the state of cleanliness reflects the character of its citizens. (150-200 words)   5M

OR

You are Ali/Alia, Head girl / Head boy of your school. You are deeply disturbed by the rising cases of aggressive behaviour of students in your school. You decide to speak during the morning assembly about it. Write a speech on 'Indiscipline in Schools'. (150 – 200 words)

Q9. "Academic excellence is the only requirement for a successful career." Write a debate either for or against the motion. (120 – 150 words)   5M

OR

Social media (Facebook, Twitter, etc.) is being used to create disaffection in society.' Write a debate in 120-150 words either for or against the motion.   (7marks)

SECTION C LITERATURE (31 MARKS)

Q10. Read the extract given below and answer any two of the questions that follow. 3M

When did my childhood go?
Was it the time I realised that adults were not all they seemed to be,
They talked of love and preached of love,
But did not act so lovingly,
Was that the day!

1. Who is 'my' in the above lines?
2. Why is 'I' confused?
3. Who talk of love and preach of love?

Q11. Read the given passage and answer the questions that follow.   (1x3=3M)

He was just a teenager when he died. The last heir of a powerful family that had ruled Egypt and its empire for centuries, he was laid to rest laden with gold and eventually forgotten. Since the discovery of his tomb in 1922, the modern world has speculated about what happened to him, with murder being the most extreme possibility.

1. Who is the author of these lines ?

2. Who is 'he' in these lines ?

3. What has happened to 'he' recently?

Q12. Read the given passage and answer the questions that follow. (1x4 = 4M)

When the curtain rises it is an afternoon in early autumn and the stage can be well lit. Mrs Pearson at right, and Mrs Fitzgerald at left, are sitting opposite each other at the small table, on which are two teacups and saucers and the cards with which Mrs Fitzgerald has been telling Mrs Pearson's fortune. Mrs Pearson is a pleasant but worried-looking woman in her forties. Mrs Fitzgerald is older, heavier and a strong and sinister personality. She is smoking. It is very important that these two should have sharply contrasting voices.

1. What is the name of the play?

2. Where is the scene set ?

3. How are Mrs. Pearson and Mrs. Fitzgerald related?

4. What was the contrast between the voices of the two ladies?

Q13. Answer the following questions in 40-50words. (ANY TWO) 3x2=6M

1. Mention how the sparrows expressed their sorrow when the author's grandmother died.

2. What was the narrator's experience when she entered the house?

3. Explain the statement, "King Tut is one of the first mummies to be scanned — in death, as in life ..."

Q14. Answer any one of the following questions in 40-50words. 3x1=3M

1. What was Mr Pearson called behind his back in the club? Why was he called so?

2. What efforts did Andrew make to revive Susan Morgan? (Birth)

Q15. Answer any one of the following question (ANY ONE) in about 100-120 words. (6x1=6M)

How did the narrator and his companions save the boat from sinking?

OR

Write the character sketch of the grandmother.

Q16. Answer any one of the following question (ANY ONE) in about 100-120 words. (6x1=6M)

Compare and contrast the characters of Mrs Fitzgerald and Mrs Pearson. Who do you admire and why? (Mother's Day)

OR

How did the narrator come to know about Mrs Dorling and the address where she lived?

St. PBN PUBLIC SCHOOL
ANNUAL EXAMINATION
CLASS- XI
ACCOUNTANCY
SAMPLE PAPER

Time: 3Hrs   **MM: 80**

GENERAL INSTRUCTIONS:
1. This question paper contains 34 questions. All questions are compulsory.
2. Question 1 to 20 carries **1** mark each.
3. Questions 21 to 26 carries **3** marks each.
4. Questions from 27 to 29 carries **4** marks each
5. Questions from 30 to 34 carries **6** marks each
6. There is no overall choice. However, an internal choice has been provided in 7 questions of **one mark**, 2 questions of **three marks**, 1 question of **four marks** and 2 questions of **six marks.**

1. State whether the statement is True or False: (1)
    Cash Basis of accounting is recognised under companies Act.

2. Cost price or realisable value, whichever is less, is used for the valuation   of:
                                                                                (1)
 (a) Current Assets   (b) Closing Stock
(c) Fixed Assets   (d) All Assets

3. Generally accounts under single entry system are maintained by:
(a) Sole Trader   (b) Company
(c) Society   (d) Government
                                OR   (1)
Accounting standards are useful:
(a) For Investors   (b) For Outside Parties
(c) For Auditors   (d) For all of the above

4. What are Artificial Personal Accounts? Give one example.
                                OR   (1)
Wages paid to Arun Rs. 20,000 for the construction of building will be debited to:
(a) Arun A/c   (b) Wages A/c
(c) Building A/c   (d) Capital A/c

5. Assets are shown in the Trial Balance on the: (1)
(a) Debit side   (b) Credit side
(c) Neither debit nor credit   (d) Outside the Trial Balance

6. **Assertion (A):** Dividend Equalisation Reserve is a specific reserve.
Reasoning (R): It is created to maintain a steady rate of dividend.
(a) Both A and R are true and R is the correct explanation of A
(b) Both A and R are true, but R is not the correct explanation of A.
(c) A is true, but R is false.
(d) A is false, but R is true.

<div align="center">

OR (1)

</div>

In cash basis, expenses are recorded:
(a) When paid in cash   (b) When not paid in cash
(c) When paid or not paid in cash   (d) None of the above

7. Mention two transactions which are recorded in journal proper. (1)

8. State whether the statements is True or False:
     General reserve can be used only for some specific purposes.

<div align="center">

OR (1)

</div>

Give two examples of Capital Expenditure

9. **Match the following :-** (1)

Column A	Column B
(i) Furniture	(a) Debit
(ii) Salary outstanding	(b) Assets
(iii) Expenses or losses	(c) Credit
(iv) Incomes or Gains	(d) Liabilities

10. Everything a firm owns, it also owes out to somebody. This co-incidence is explained by the _____ concept. (1)

11. Name the two main accounts maintained in 'Accounts from Incomplete Records.'
(1)

12. **Assertion (A):** Shivam of Mumbai (Maharashtra) sold goods to Sundar of Gurgaon (Haryana) and charged 18% IGST.
Reasoning (R): IGST is charged on inter-state supply of goods (1)
(a) Both A and R are true and R is the correct explanation of A
(b) Both A and R are true, but R is not the correct explanation of A.
(c) A is true, but R is false.
(d) A is false, but R is true.

13. Give a formula to calculate Operating Profit from Net Profit? (1)

14. State whether the statement is True or False: (1)
    When the goods are sold or purchased outside the state then CGST will charge.

15. **Match the following :-**

Column A	Column B
(i) Bad Debts recovered	(a) Artificial Personal A/c
(ii) Outstanding Salary	(b) Real Account
(iii) Trade Marks	(c) Nominal Account
(iv) Bank Account	(d) Representative Personal A/c

OR (1)

Assertion (A): If there is an anticipated loss, there should be adequate provision in the account.
Reason (R): The principle of conservatism requires a business to be extremely cautious about possible losses. It should guard against any possible losses.
(a) Both A and R are true and R is the correct explanation of A
(b) Both A and R are true, but R is not the correct explanation of A.
(c) A is true, but R is false.
(d) A is false, but R is true.

16. When a trader sells goods on credit, he prepares _____ which contains the name of the party to whom goods are sold, the rate, quantity and the total amount of sale (1)

(a) Cash memo   (b) Invoice
(c) Debit note   (d) Receipt

17. What are the two basic objectives of having Accounting Standards?
                                   OR   (1)
A's Trial Balance provides you the following information:
    Bad Debts   Rs. 3,000
    Provision for Bad Debts   Rs. 5,000
        It is desired to maintain a provision of Rs. 1,500 for doubtful debts, the amount to be recorded in P& L A/c will be:
(a) Rs. 4,500 in Dr.   (b) Rs. 500 in Cr.
(c) Rs. 500 in Dr.   (d) Rs. 3,500 in Dr.

18. Miss Priti, an electronic goods dealer, gifted a washing machine valued Rs. 25,000 to her friend Suruchi. Will it be recorded in the books of accounts? (1)

19. _____ refers to those liabilities which are to be paid normally within one year.

OR (1)

Under _____ method, the value of an asset, even if it becomes obsolete and useless, cannot be reduced to zero.

20. Paid to Vishakha Rs. 14,000 in full settlement of Rs. 15,000. Posting of Rs. 1,000 will be made to the: (1)
(a) Dr. side of Discount A/c　　　　　　　(b) Cr. side of Discount A/c
(c) Dr. side of Vishakha's A/c　　　　　　(d) Cr. side of Vishakha's A/c

21. (a) Which accounting principle requires that life of a business be broken into smaller parts? Explain that principle.
(b) Which accounting principle requires that personal expenses of proprietor or partners should be debited to drawings account? Explain that principle. (3)

22. From the following information calculate Sales and Gross Profit:

Opening Stock	Rs. 1,00,000
Purchase	Rs. 2,80,000
Closing Stock	Rs. 80,000
Wages	Rs. 2,000
Freight Inwards	Rs. 3,600
Carriage Inwards	Rs. 1,000

　　　G.P. is 20% on Sales

OR (3)

Calculate Gross Profit on the basis of the following information:

	Rs.
Purchases	6,80,000
Return Outwards	30,000
Carriage Inwards	20,000
Carriage Outwards	15,000
Wages	50,000

¾ of the goods are sold for Rs. 6,00,000.

23. Prepare accounting equation of Ram from the following transactions:
i. Commenced business with cash Rs. 50,000
ii. Bought goods for cash Rs. 15,000 and on credit from Amit for Rs. 25,000
iii. Sold goods bought from Amit at a profit of 20%.

OR (3)

Calculate the missing figures in the following cases:

Case	Opening Capital	Additional Capital	Drawings	Profit and Loss	Closing Capital
i)	60,000	20,000	5,000	17,000	?
ii)	60,000	?	18,000	(5,000)	67,000
iii)	70,000	30,000	10,000	?	1,15,000

24. Rectify the following errors:

(a) An entry for sale of goods for Rs. 102 to Madhav was posted to his account Rs. 120.
(b) Rs. 100 being the discount allowed to customers were credited to discount received account in the ledger.
(c) Rs. 275 paid by Madhav were credited to Jadav's Account. (3)

25. Accounting provides information about the profitability and financial soundness of a concern. In addition, it provides various other valuable information also. However, accounting has certain limitations. Explain any three of such limitations.

(3)

26. Prepare Madhav's A/c, Jadav's A/c and Suspense A/c with the help of Q.No. 24

(3)

27. On 30th June, 2020 the Pass Book of Sh. Mahabir Prashad showed a balance of Rs. 22,000. On comparing the Pass Book with Cash Book the following differences were found:
(a) Mahabir Prashad had paid into the Bank on 26th June four cheques for Rs. 3,000, Rs. 6,000; Rs. 8,000 and Rs. 10,000. Of these, the cheque for Rs. 6,000 was credited by the bank in july 2020.
(b) On 23rd June three cheques were drawn for Rs. 12,000; Rs. 13,000 and Rs. 16,000. The first two cheques were presented to the bank for payment in June and the third in July 2020.
(c) Cheques amounting to Rs. 3,600 were deposited in the bank but no entry was passed in the Cash Book.
(d) Bank charges entered in Cash Book twice Rs. 50.
(e) Cheque received entered twice in the Cash Book Rs. 3,200.
        Prepare a Bank Reconciliation Statement as on 30th June 2020. (4)
28. Enter the following transactions in the sales books of M/s Ridhima Sales, Kolkata 2022:

2022	
March 1	Sold to M/s. Gayatri Tea, Assam, vide invoice No. 2005, 3 Chests of tea for Rs. 5,000 per chest less Trade discount @ 5%.
March 4	Sold to M/s. Mohan & Sons, Kolkata vide invoice No. 2006, 20 kg Amul Butter @ Rs. 250 per kg less Trade discount @ 5%.
March 5	Sold to M/s. Garry Sons, Delhi vide invoice No. 2007, 20 kg Assam Tea @ Rs. 600 per kg less Trade discount @ 5%. Freight (Rs. 1,000) and packing charges (Rs. 600) were separately charged in the invoice.
March 6	Sold 10 Kg Amul butter to Ganguli Bros. for cash @ Rs. 250 per kg.
March 7	Sold office furniture to Raman & Co. for Rs. 10,000. (4)

29. Read the following hypothetical Case Study and journalise the transactions in the books of M/s Designer Wear
        Aruna, decided to start business of fashion garments under the name of M/s Designer Wear from 1st April, 2021. She had savings of Rs. 10,00,000. She invested Rs. 3,00,000 out

of her savings and also borrowed Rs. 3,00,000 from State Bank of India. She purchased a commercial space of 500 sq. feet for Rs. 5,00,000. The space so purchased was suitably renovated to make it ready as showroom. She purchased furniture and fixtures for Rs. 75,000.

     All payments were to be made by cheque. All the receipts were in cash and to be deposited in the bank in the morning of next day. Charge depreciation @ 5% on building and 10% on furniture and fixtures.

<div align="center">**OR**</div> (4)

     The Capital of Sh. Madhusudan on 1st April, 2022 was Rs. 5,00,000 and on 31st March, 2023 was Rs. 4,80,000. He has informed you that he withdrew from the business Rs. 8,000 per month for his private use. He paid Rs. 20,000 for his income-tax and the instalment of the loan of his personal house at the rate of Rs. 15,000 per month from the business. He had also sold his shares of Reliance Company costing Rs. 1,00,000 at a profit of 20% and invested half of this amount in the business. Calculate the profit or loss of the business.

30. a) State to which class of accounts does each of the following relate:
   i) Leasehold Property   ii) Bad Debts
   iii) Drawings   iv) Rent Received
   v) Copyrights   vi) Bank Account

   b) Journalise the following transactions: -

   i. Manish who owed us Rs. 50,000 becomes insolvent and a final dividend of 70 paise in a rupee is received from his estate.
   ii. Provide interest on capital Rs. 12,00,000 @ 12% p.a. for 7 months.
   iii. Bought goods from Sneha for Rs. 40,000 at a trade discount of 10% and cash discount of 2%. Paid 60% amount immediately. (6)

31. Enter the following transactions in a Cash Book with Cash and Bank Columns of Mr. Mohan:-
 2018
Jan. 1   Cash in Hand Rs. 2,200; Bank Rs. 50,000.
   3   Purchased goods for Rs. 75,000, Trade Discount 20%; CGST 6%;   SGST 6%;
   Payment made by Cheque.
   4   Sold goods for Rs. 40,000; Trade Discount 15%; IGST; 12%;
      Payment received by Cheque
   5   Received a cheque form Naresh Rs. 1,000
   8   Cheque received form Naresh endorsed to Suresh in full settlement of   his account of Rs. 1,050
   10   Paid life Insurance premium of Mr.Mohan Rs. 100
   13   Received a cheque Rs.700 from Pawan in full settlement of his   account of Rs.750.
   16   Pawan's cheque returned dishonoured by bank
   20   Deposited into Bank, balance of Cash in excess of Rs. 250 (6)

32. From the following ledger account balances extracted from the books of R.J. Gupta, prepare a Trial Balance as on 31st March, 2018: (6)

Purchases	1,04,000	Drawings	7,950
Sundry Debtors	18,550	Sundry Creditors	8,300
Premises	62,000	Returns Inward	5,360
Sales	1,49,000	Furniture	15,600
Return Outward	8,900	Cash in Hand	390
Rates & Taxes	780	Capital	85,000
Cash at Bank	1,560	Factory Wages	5,830
Carriage Inwards	650	Carriage Outwards	260
Salaries	3,900	Rent Received	2,990
Stock (1st April,2017)	25,000	Insurance	2,100
Input IGST A/c	5,000	Bad Debts	260
Input CGST A/c	2,500	Output IGST A/c	10,000
Input SGST A/c	2,500		

33. On 1st April 2018, following balances appeared in the books of M/s Krishna Traders:

	Rs.
Furniture Account	50,000
Provision for Depreciation on Furniture Account	22,000

On 1st October, 2018 a part of Furniture purchased for Rs. 20,000 on 1st April, 2014 was sold for Rs.5,000. On the same date a new furniture costing Rs. 25,000 was purchased. The depreciation was provided @10% p.a. on original cost of the asset and no depreciation was charged on the asset in the year of sale. Prepare 'Furniture Account' and 'Provision for Depreciation Account' for the year ending 31st March, 2019.

OR (6)

On 1st August, 2010, Hindustan Toys Ltd. purchased a plant for Rs. 12,00,000. The firm writes off depreciation at 10% p.a. on the diminishing balance and the books are closed on 31st March each year. On 1st July, 2012, a part of this plant of which the original cost was Rs. 1,80,000 was sold for Rs. 1,00,000 and on the same date a new plant was purchased for Rs. 4,00,000. Show the Plant Account and Provision for Depreciation Account for three years ending 31st March, 2013.

34. The following balances were extracted from the books of Mr. Din Dayal as at 31st March, 2019.

Particulars	Rs.	Particulars	Rs.
Stock at the beginning	41,000	Purchases	2,20,000
Rent	9,600	Sales	2,80,000
Salary	20,000	Returns (Dr.)	6,000
Bad-Debts	400	Returns (Cr.)	2,000
Provision for Doubtful Debts	3,000	Carriage Inward	3,500

	Rs.		Rs.
Travelling Expenses	1,400	Carriage Outward	500
Insurance Premium	1,800	Capital	1,75,000
Proprietor's withdrawals	4,000	Loan (Cr.)	20,000
Telephone Charges	7,300	Debtors	40,000
Printing & Advertising	5,000	Creditors	27,000
Commission (Cr.)	6,000	Investment	5,000
Rent from Sublet	4,800	Interest on Investments	600
Land and Building	1,40,000		
Furniture	10,000		
Cash	2,900		

Prepare Trading and Profit & Loss Account for the year and a Balance Sheet as at 31st March, 2019, after taking into account the following:

I. Stock was valued at Rs. 75,000 on 31st March, 2019. You are informed that a fire occurred on 28th March, 2019 in the godown and stock of the value of Rs. 10,000 was destroyed. Insurance company admitted a claim of 75%.

II. One-third of the commission received is in respect of work to be done next year.

III. Create a provision of 5% for doubtful debts.

IV. 50% of printing and advertising is to be carried forward as a charge in the following year.

V. Rs. 900 is due for interest on Loan.

VI. Provide for Managers commission at 10% on Net Profit before charging such commission.

OR (6)

From the following Trial Balance of Sh. Praveen Kumar, prepare Trading and Profit & Loss Account for the year ending 31st March, 2019 and a Balance sheet as at that date:

Dr. Balances	Rs.	Cr. Balances	Rs.
Stock at commencement	40,000	Sales	5,10,000
Purchases	3,20,000	Loan from Mr. Naresh @ 15% pa.	40,000
Return Inward	7,000	Return Outwards	8,000
Sundry Debtors	80,000	Bank	24,200
Cash	9,400	Provision for Doubtful Debts	2,500
Manufacturing Expenses	44,000	Discount	1,800
Trade Expenses	7,200	Rent of premises Sublet, for the year to 30th sep. 2019	4,000
Carriage	3,500	Capital	1,20,000
Salaries & Wages	15,800	Sundry Creditors	47,000
Postage	1,500		
Stationery	800		
Freight Inwards	4,300		
Land & building	2,00,000		
Patents	8,000		
Furniture	10,000		

Insurance Premium	6,000		
	7,57,500		7,57,500

Adjustments:

a. Closing Stock was valued at Rs. 60,000. You are informed that goods valued Rs. 12,000 were sold and despatched on 29th March, 2019, but no entry was passed to this effect.

b. Insurance premium include Rs. 1,200 paid on 1st October, 2018 to run for one year from Oct. 1, 2018 to sept. 30, 2019.

c. Loan from Mr. Naresh was taken on 1st July, 2018. Interest has not been paid so far.

d. Create provision for Doubtful Debts at 5% on Sundry Debtors after writing off Rs. 600 as bad-debts during the year.

e. A bill of Rs. 3,200 for advertisement in newspaper remained unpaid at the end of the year.

f. Purchases include Furniture costing Rs. 5,000 purchased on 1st April, 2018.

g. Charge 10% pa. depreciation on Furniture and write off 1/5th of patents.

Time: 3 Hours   **Max Marks: 80**

General Instructions:
1. This question paper is divided into two Sections:

     Section A – Micro Economics

     Section B – Statistics

2. This Paper contains 20 Multiple Choice Questions of 1 Mark each.

3. This Paper contains 4 Short Answer Type Questions of 3 Marks each to be answered
in 60 to 80 words each.

4. This Paper contains 6 Short Answer Type Questions of 4 Marks each to be answered
in 80 to 100 words.

5. This Paper contains 4 Long Answer Type Questions of 6 Marks each to be answered
in 100 to 150 words.

SECTION A –MICRO ECONOMICS

Q1.Law of Diminishing Marginal Utility states that as more and more units of a commodity are consumed by a consumer, Marginal utility tends to   1
a)diminish   b)increase
c)become zero   d)stay constant

Q2. Producer's equilibrium refers to a stage of output at which   1
a)the firm earns maximum profits
b)the firm has no inclination of changing output
c)the firm suffers minimum losses
d)all of these

Q3.When Es =1.6 supply is _____ .   1
a)perfectly elastic   b)perfectly inelastic
c)elastic   d)inelastic

Q4. Statement 1: Excess of Marginal Revenue over Marginal Cost is better than equality
Between them at the point of equilibrium.
Statement 2 : Marginal Cost should be falling at the point of producer's equilibrium.   1
a) Statement 1 is true and Statement 2 is false
b) Statement 1 is false and Statement 2 is true
c) Both statements 1 and 2 are true
d) Both statements 1 and 2 are false

Q5. Define Elasticity of Supply. How is it calculated ?   1

Q6. Which of the following influences Price Elasticity of demand?   1
a)Price of given commodity   b)Availability of substitute goods
c)Price of substitute goods   d)Price of complementary goods

Q7. Price discrimination is a feature of _____.   1

Q8. Define AR and TVC with examples.   1

Q9. Define PPC Curve with diagram.   1

Q10. When both demand and supply curves shift to increase demand and supply in same proportion

1

a) only equilibrium price remains unchanged
b) only equilibrium quantity remains unchanged
c) equilibrium price remains unchanged but equilibrium quantity decreases
d) equilibrium price remains unchanged but equilibrium quantity increases

Q11. Distinguish between positive economics and normative economics.   3

OR

Distinguish between microeconomics and macroeconomics.

Q12. State the relationship between marginal cost and average cost.   3

Q13. The demand function of commodity 'X' is given as = QX = 30 – PX. calculate its price elasticity of demand when price falls from `8 to ` 5.   4

OR

Distinguish between change in demand and change in quantity demanded.

Q14. Define long run production function. State the relation between total product and   marginal product.
4

Q15. Define market supply. Explain the effect of rise in input price on the suppy of a good.   4

Q16. Explain the conditions of consumer's equilbrium under indifference curve approach.   6

Q17. Distinguish between 'price ceiling' and 'price floor'. Explain implications of price ceiling.   6

SECTION B –STATISTICS

Q18. Define consumption.   1

Q19. In random Sampling   1

(a) Each element has equal chance of being selected

(b) Each element has unequal chance of being rejected.

(c) Each element has equal chance of being rejected.

(d) Both (a) and (c)

Q20. Non e-sampling errors are related to collection of data (True/False)   1

Q21. In case of _____ ogive the cumulative total tends to decrease. (less than/more than)   1

Q22. Find the correct option from the following.   1

(a) Made = 3 medain – 2 mean

(b) Mode = 2 median – 3 mean

(c) median = 3 mode – 2 mean

(d) Mean = 3 median – 2 mode

Q23. Which measure of central tendency cannot be calculated by graphic method: 1

(a) Mode   (b) Median

(c) Mean   (d) None of these

Q24. What is the graphical measure available to measure of dispersion.   1

(a) Frequency polygon   (b) Histogram

(c) Ogive curve   (d) Lorenz curve

Q25. Variance is the square of _____. (Mean Deriation/ Standard deriation)   1

Q26. In India inflation is measured on the basis of wholesale price index.   1

   (True/False)

Q27. Maximum value of coefficient of correlation is   1

(a) 0   (b) –1

(c) +1   (d) μ

Q28. Distinguish between sampling error and non sampling error.   3

Q29. Write three demerits of mode.   3

Q30. Calculate mean by step-deviation method from the following data: 4

C.I.	5-15	15-25	25-35	35-45	45-55	55-65

Frequency	15	19	13	21	14	10

Q31. Calculate standard deviation from the following distribution.   4

Class	20-40	40-80	80-100	100-120	120-140
Frequency	3	6	20	12	9

Q32. Calculate coefficient of rank correlation unit with the help of spearman's Rank correlation method.
4

x	30	25	35	43	27	25	31	33
y	32	30	26	28	27	31	34	28

Q33. Explain the functions of statistics.   6

Q34. Calculate Price Index by   6
a) Laspreys Price Index
b) Paasche Price Index
c) Fisher Price Index

Commodity	1999 (P)	1999 (Q)	2008 (P)	2008 (Q)
A	2	200	3	300
B	8	72	10	100
C	12	60	15	90
D	7	49	10	80

TIME: 3 HOURS   **Max Marks : 80**

General instructions:

1. This question paper contains 34 questions.

2. Marks are indicated against each question.

3.Answers should be brief and to the point.

4. Answers to the questions carrying 3 marks may be from 50 to 75 words.

5. Answers to the questions carrying 4 marks may be about 150 words.

6. Answers to the questions carrying 6 marks may be about 200 words.

7. Attempt all parts of the questions together.

Q1. An American firm "Zebsik enterprise" purchased handmade decorative pieces from India, re-packaged and sold them in its own name to Germany. This represents: (1)

a. Entrepot for Zebsik enterprise, export for India & import for Germany.

b. Entrepot for Zebsik enterprise, Import for India & export for Germany.

c. Export for Zebsik enterprise, import for India & entrepot for Germany.

d. Entrepot for Germany, export for India & import for Zebsik enterprise.

Q2. A company has to apply for the listing of shares in stock exchange; if permission is not received then the allotment will be void. Therefore permission shall be received within: (1)

a. 7 weeks

b. 10 weeks

c. 30days

d. 10days

Q3. Find any two similarities between joint stock company and cooperative societies.   (1)

a. Limited Liability & Common Seal

 b. Separate Entity & Formation

 c. Limited Liability &Management Control

d. Separate Entity & Service Motive

Q4. Mr. Zed, a 39 year old, young man came to know that he is suffering from heart blockages, which need to be operated within next three months. He purchased an insurance policy worth rupees 10 lacs, without disclosing his true clinical material facts. He got operated but insurance company refused to pay the dues stating that he had violated one of the insurance principles. Identify it. (1)

a. Subrogation

b. Mitigation

c. Insurable Interest

d. Utmost good faith

Q5. This particular type of Bank account is a combination of savings bank and current account with term or special term deposits accounts. (1)

a. Multiple Option Deposit Account

b. Fixed Deposit Account

c. Recurring Account

d. Saving Account

Q6. Statutory Corporations are (1)

a. Sole Proprietorship

b. Private enterprises

c. Public Enterprises

d. None of these

Q7. Read the statement carefully and choose the correct alternative: (1)

Statement I: There is high investment for setting up in e-business.

Statement II: e-business is also helpful in personnel recruitment, selection and training.

a. Both the statements are true.

b. Both the statements are false.

c. Statement I is true, Statement II is false.

d. Statement II is true, Statement I is false.

Q8. Identify internal source of finance from the following. (1)

a. Trade Credit

b. Debentures

c. Equity Shares

d. Inter Corporate Deposits

Q9. Everyday an ice-cream vendor appears in front of your school. Name the type of retailer referred here. (1)

a. Peddlers and Hawkers

b. Market Traders

c. Street Traders

d. Single line Stores

Q10. Assertion (A): Bank Credit is a permanent source of finance. Reason (R): Though banks have started extending loans for longer periods, generally such loans are used for medium to short periods. (1)

a. Both A & R are correct, But R is not the correct explanation of A.

b. Both A & R are false.

c. A is false, But R is true.

d. Both A & R are true and R is the correct explanation of A.

Q11. Rahi Ltd. is a company dealing in organic products. The company requires funds, for short term, in order to meet the additional demand during festival season. The financial manager of the company suggested that the company can borrow funds from Rare Limited. Rare Limited deals in FMCG products. Identify the suitable source for raising funds to be used by financial manager in the above case. (1)

a. Inter corporate deposits

b. Trade Credit

c. Cash Credit

d. Bank Overdraft

Q12. A Patent grants exclusive rights to the inventor for a period of _____ during which anybody else who wishes to use the patented subject matter needs to seek permission from the patentee, by paying certain cost for the commercial use of such invention. (1)

a. 2 years

b. 5 years

c. 10 years

d. 20 years

Q13. Mohan Invested ₹ 5, 00,000 in the debentures of Venus ltd. The return for his investment is called_____. (1)

a. Profit

b. Dividend

c. Interest

d. Shares

Q14. Jasbir is running an artificial jewelry business on the basis of advertisement only. She has not opened any shop and delivers goods to her customers through courier. Identify the type of Retail Trade that Jasbir is running. (1)

a. Export Trade

b. Chain Stores

c. Mail order houses

d. Single line stores

Q15. It is a guarantee issued by the importer's Bank that it will honour payment up to a certain amount of export bills to the bank of the exporter. Identify the document. a. Letter of Indemnity b. Indent or Order c. Letter of Credit d. Bill of Exchange 1 16. Which of the following document is not required for obtaining export license?(1)

a. IEC Number

b. Letter of Credit

c. Registration cum membership certificate

d. Bill of Sight

Q16. Give two examples of Small Scale Industries.   (1)

Q17. GST is the single comprehensive _____ tax on supply of goods and services.   (1)

a. Direct

b. Indirect

c. Personal

d. Impersonal

Q18. Which of the following document is not required in connection with an import transaction?

a. Bill of Lading   (1)

b. Shipping Bill

c. Certificate of Origin

d. Shipment Advice

Q19. Which of the following statement is FALSE for MSME sector in India   (1)

a. MSME sector is the second largest employer of human resources, after agriculture.

b. MSME is considered being less labour intensive and more capital intensive.

c. MSME in our country supplies an enormous variety of products which include mass consumption goods etc.

d. MSME is considered being more labour intensive and less capital intensive.

Q20. The basic objective of Start-ups India scheme is   (1)

a. Trigger an entrepreneurial culture and inculcate entrepreneurial values.

b. Create awareness about the charms of being an entrepreneur.

c. To carve strong eco system for nurturing innovation & startups of country

d. Encourage more dynamic start up by motivating educated youth as a viable career.

Q21. Mohan, after completing his MBA from a reputed college returned to India. He hired a cab (taxi) from the airport to his house at a fare of ₹ 3000 as no cab was ready to go on meter. In midway he got an idea to start a kind of cab facility in which all the cabs of his business will run on meter along with the total amount of fare will be known to the passenger before boarding his company's cab. He analyzed the idea with its operational viability, also was able to arrange funds required to start the business as idea seems to be profitable. Hence, Mohan decided to start a company with a name of "Cab Convenience". In above Para Mohan has performed the few steps of one of the stage of formation of company, Explain the next three steps to be performed by Mohan to complete this stage of formation. (3)

Q22. Explain any three functions of commercial banks. OR Explain any three types of digital modes of payment. 3 23. Life insurance corporation of India is the largest insurance company in India. It is headquartered in Mumbai. It was founded in the year 1956, where the parliament of India passed the life insurance of India act that nationalized the private insurance industry in India. Over 245 insurance companies and provident societies were merged to create the state owned life insurance corporation. (3)

(a) Life insurance corporation is classified as which form of public sector enterprise.

(b) State any two features that highlights Life Insurance corporation of India in a particular form of public sector enterprise as identified in part (a).

Q23.With Exponential growth seen in domestic transportation additional metro rail infrastructure, government has decided to offer more metro networks to private parties for operations and management. In Delhi, as 30 metro stations needed to be revived and upgraded in coming years to support the double digit growth in the sector. This would require huge private investment as public funds are limited for infrastructure development. In February 2017, Central government announced that metro rail infrastructure will be built by state owned enterprises (Local and International) in Delhi, Mumbai, Bangalore and Hyderabad to private developers. Identify the type of enterprise discussed in above Para. Also State its two features. (3)

Q24. Following is the capital structure of the ABZ Ltd, composed with different sources of finance. 8% Debentures ₹ 50,000 10% preference share capital ₹ 1,00,000 Equity share capital ₹ 1,00,000 Profits of the company for the year 2017-18 are ₹50,000. (3)

(a) From the above sources of finance, Identify the source of finance that provides tax benefits to the organization.

(b) State any two preferential rights available to preference shareholders over equity   shareholders.

Q25. With the reference to following items identify and explain types of intellectual properties. (4)

i.   Darjeeling Tea
ii.   Registered Brand Name

Q26. "Fundamental reason behind international business is that every countrycan't produce equally well or cheaply all that they need, hence international business is required". Explain any four rationale of the same.

<div align="center">OR</div>

"International Trade is not only beneficial to Countries, but it also works for the wellbeing of industry and trade of these countries" Explain the rationale of the same. (4)

Q27. Harsh runs an online store dealing in all kinds of household items which he procures from different dealers. Whereas his friend Lakshay runs a storethrough which hesells all kinds of organic products like spices, pickles, jams etc. these products are produced in his automated manufacturing unit in Kerala.

(a) Identify the two concepts undertaken by Harsh and Lakshay respectively.

(b) Also differentiate between the concepts identified in part (a) on the basis of: · Shape · Transaction risk · Nature of human capital   (4)

Q28. Explain any four arguments for social responsibility OR Explain any four elements of business ethics.
                                                                                                                                         (4)

Q29. Mohit and Sumit are friends. They have to attend the birthday party of a common friend. Mohit goes to 'Poshak kids wear' exclusively for kids wear with his parents to get a new dress for party, whereas Sumit purchased his dress from 'Reliance Mart'. & his mother purchased grocery from the same store.

(a) Identify the type of stores Mohit and Sumit visited.

(b) Explain any onefeature of each store identified in part (a).   (4)

Q30. In the banking system in India dated back to 1750 B.C. there evidence of loans from Vedic period. From the writing of many foreign travelers during Mughal period we came to know about the use of various instruments in the then great commercial centers. In the Mughal period historians found evidence of loan which is known as dastawez of two types- one was payable on demand and other was payable after a stipulated time. The most important class of credit instruments of exchange evolved India at that time. Their use was most widespread in the twelfth century and has continued till today. These instruments were famous in many then trade centers such as Mathura, Kaveripatta and Broach.

 (a) Identify the instruments of exchange prominent in the great ancient Commercial centers of India.

(b) Also state the commercial importance of the trade centres mentioned in the para.   (4)

Q31. A, B, C and D are partners in a firm with unlimited liability. But after 1991, B and C decided that they didn't want to bear unlimited risk. With the consent of all the partners, they made amendments in partnership deed and changed their liability clause, in which now the members are responsible for the losses only to the extent of the capital invested by them. (6)

(a) Identify the types of partnership formed before and after 1991

(b) State any two differences between the types of partnership identified in part (a)

(c) Also explain any three advantages of partnership form of business organization.

Q32. Private sector comprises various types of business organizations. However there is such form of business organization which restricts the rights of transfer of ownership in one of its types, on the other hand the other type of same business organization, allow its owners to transfer their rights of ownership.

(a) Identify the types of one of the form of business organization highlighted in above para.

(b) State any five differences between the types identified in part (a).   (6)

Q33. Excel ltd. has received an order to export 2000 sewing machines to Swift Import ltd. of Spain. Explain in brief first six steps which Excel ltd. would need to go through for executing the export order. 6 33. Deepak Beverages ltd. Is planning to expand its operations. Therefore the board of directors planned to issue shares worth ₹10, 00,000. But it is facing some short term financial difficulty, therefore doesn't have sufficient funds to meet its cost of issue of shares. The company invited deposits from the general public for 6 months @ 15% p.a. rate of interest, issued a deposit receipt as an acknowledgement by the company. In this way company was able to meet its short term financial need.

(a) Identify and specify the type of fund which Deepak beverages ltd. raised in above

(b) Also state any three merits and two demerits of the specified fund identified in part (a). (6)

Q34. Umesh established 'Niger' in 2021 in USA. The powers, rules and regulations of "Niger' was decided as per USA norms. Niger established its trade projects in different parts of the world to increase its market territory which leads to greater revenue and higher efficiency. (a) How will 'Niger' be categorised as a private sector enterprise? (b) State any five features of this private sector enterprise. OR BHEL was founded in the year 1964 by the Government of India. It is the largest power plant equipment manufacturer in the country with 74% market share in the Power Sector. It hasnetwork of 17 manufacturing units, 2 repair units, 4 regional offices, 8 service centres and infrastructure allowing it to execute more than 150 projects at sites across India and abroad. It has been granted the prestigious Maharatna status in2013 by the Government of India. Maharatna Status allows the Board of this company enhanced financial and operational autonomy. In content of the above case:

(a) How will BHEL be classified as a form of Public Sector Enterprise?

(b) State any four features of the form of Public Sector Enterprises as identified in part (a).

(c) State briefly 'Operational autonomy' as a merit of the type of Public Sector Enterprises as identified in part (a). (6)

TIME: 3 Hours   **MM: 80**

NAME: _____   **DATE:** _____

General instructions:

- All questions are compulsory.
- Section A consists of 20 questions of 1 mark each.
- Section B consists of 5 questions of 2 marks each.
- Section C consists of 6 questions of 3 marks each.
- Section D consists of 4 questions of 5 marks each.
- Section E has 3 source based/case based/passage based of assessment of 4 marks each with sub parts.
- Use of calculator is not allowed.

Section A

1. For two sets AUB=A iff
   - (i) $B \subseteq A$
   - (ii) $A \neq B$
   - (iii) $A \subseteq B$
   - (iv) $A = B$

2. The number of subsets of a set containing n elements is
   - (i)   n
   - (ii) n^2
   - (iii) 2^n
   - (iv) $2^n - 1$

3. The range of the function $f(x) = \frac{x}{|x|}$ is
   - (i)   R-{0}
   - (ii) R-{-1, 1}
   - (iii) {-1, 1}
   - (iv) none of these

4. Which of the following is incorrect?
   - (i) $\sin \theta = -\frac{1}{5}$
   - (ii) $\cos \theta = 1$
   - (iii) $\sec \theta = \frac{1}{2}$
   - (iv) $\tan \theta = 20$.

5. The value of $\tan \theta \sin \left(\frac{\pi}{2} + \theta\right) \cos(\frac{\pi}{2} - \theta)$ is
   - (i)   1
   - (ii) -1
   - (iii) $\frac{1}{2}\sin 2\theta$
   - (iv) none of these

6. The value of $(1 + i)(1 + i^2)(1 + i^3)(1 + i^4)$ is
   - (i)   2
   - (ii) 0
   - (iii) 1
   - (iv) none of these

7. If $\frac{3+2i\sin\theta}{1-2i\sin\theta}$ is a real number and $0 < \theta < 2\pi$, then $\theta =$

(i) $\frac{\pi}{6}$

(iii) $\frac{\pi}{2}$

(ii) $\frac{\pi}{3}$

(iv) π

8. If x is a real number and $|x| < 5$ then

(i) $x \geq 5$

(iii) $-5 < x < 5$

(ii) $x \leq -5$

(iv) $-5 \leq x \leq 5$

9. The number of words from the letter of the word 'BHARAT' in which B and H will never come together is

(i) 360

(iii) 120

(ii) 240

(iv) none of these

10. In how many ways can a committee of 5 be made out of 6 men and 4 women containing at least one woman?

(i) 246

(iii) 186

(ii) 222

(iv) none of these

11. The term without x in the expansion of $(2x - \frac{1}{2x^2})^{12}$ is

(i) 495

(iii) -7920

(ii) -495

(iv) 7920

12. If 7th and 13th term of an A.P. be 34 and 64 respectively, then its 18th term is

(i) 87

(iii) 89

(ii) 88

(iv) 90

13. If second term of a G.P. is 2 and the sum of its infinite terms is 8, then its first term is

(i) 1/4

(iii) 2

(ii) 1/2

(iv) 4

14. The line segment joining the points (-3, -4) and (1, -2) is divided by y-axis in the ratio

(i) 1:3

(iii) 3:1

(ii) 2:3

(iv) 3:2

15. The angle between the lines 2x-y+3=0 and x+2y+3=0 is

(i) 90º

(iii) 45º

(ii) 60º

(iv) 30º

16. The eccentricity of the ellipse $4x^2+9y^2=36$ is

(i) $\frac{1}{2\sqrt{3}}$

(iii) $\frac{1}{\sqrt{3}}$

(ii) $\frac{\sqrt{5}}{3}$

(iv) $\frac{\sqrt{5}}{6}$

17. $\lim\limits_{x \to a} \frac{x^n - a^n}{x - a}$ is equal to

(i) na

(iii) na^n

(ii) 1

(iv) na^{n-1}

18. The mean deviation of the numbers 3, 4, 5, 6, 7 from the mean is
    (i)   25   (iii)   1.2
    (ii)   5   (iv)   0
19. Two dice are thrown simultaneously. The probability of obtaining total score of seven is
    (i)   5/36   (iii)   8/36
    (ii)   6/36   (iv)   7/36
20. A pack of cards contains 4 aces, 4 kings, 4 queens and 4 jacks. Two cards are drawn at random. The probability that at least one of them is an ace is
    (i)   1/5   (iii)   1/9
    (ii)   3/16   (iv)   9/20

Section B

21. Find the domain and range of the function $f(x) = \sqrt{9 - x^2}$.
22. What is the number of ways of choosing 4 cards from a pack of 52 playing cards? In how many of these
    (i)   Four cards of same suit
    (ii)   Are face cards

Or

A committee of 7 has to be formed from 9 boys and 4 girls. In how many ways can this be done when the committee consists of:
    (i)   Exactly 3 girls
    (ii)   Atleast 3 girls

23. Find the distance of the point (3, -5) from the line 3x-4y-26=0.
24. Evaluate: $\lim\limits_{x \to 0} \dfrac{\sin 4x}{\sin 2x}$.

or

Evaluate: $\lim\limits_{x \to 2} \dfrac{3x^2 - x - 10}{x^2 - 4}$.

25. Compute the derivative of $f(x) = sin^2 x$.

Section C

26. In a survey it was found that 21 people liked product A, 26 liked product B and 29 liked product C. if 14 people liked products A and B, 12 people liked products C and A, 14 people liked product B and C and 8 liked all the three products. Find how many liked product C only.

27. Line through the points (-2, 6) and (4, 8) is perpendicular to the line through the points (8, 12) and (x, 24). Find the value of x.

28. The coefficients of the $(r-1)^{th}$, r^{th} and $(r+1)^{th}$ terms in the expansion of $(x+1)^n$ are in the ratio 1:3:5. Find n and r.

Or

Find a if the 17th and 18th terms of the expansion $(2+a)^{50}$ are equal.

29.(i) Find the equation of the parabola which is symmetric about the y-axis and passes through the point (2, -3).

(ii)Find the equation of the ellipse, whose length of major axis is 20 and foci are $(0, \pm5)$.

30. Show that the points A (1, 2, 3), B (-1, -2, -1), C (2, 3, 2) and D (4, 7, 6) are vertices of a parallelogram ABCD, but it is not a rectangle.

Or

Find the lengths of the medians of the triangle with vertices A (0, 0, 6), B (0, 4, 0) and C (6, 0, 0).

31.(i) A die is rolled. Let E be the event "die shows 4" and F be the event "die shows even number". Are E and F mutually exclusive?

(ii)A coin is tossed. If the outcome is head, a die is thrown. If the die shows up an even number, the dice is thrown again. What is the sample space for the experiment?

Section D

32. Prove that $cos^2x + cos^2\left(x + \frac{\pi}{3}\right) + cos^2\left(x - \frac{\pi}{3}\right) = \frac{3}{2}$.

Or

Prove that $\frac{cos\,4x + cos\,3x + cos\,2x}{sin\,4x + sin\,3x + sin\,2x} = cot\,3x$.

33.Solve the following system of inequality graphically

$$3x + 2y \le 150$$
$$x + 4y \le 80$$
$$x \le 15, y \ge 0$$

34. The pth , qth and rth terms of an A.P are a, b, c respectively. Show that

$$(q - r)a + (r - p)b + (p - q)c = 0$$

Or

Let S be the sum, P be the product and R the sum of reciprocals of n terms in a G.P. prove that $P^2R^n = S^n$.

35.Find the mean, variance and standard deviation using short cut method

Height	70-75	75-80	80-85	85-90	90-95	95-100	100-105	105-110	110-115
No of children	3	4	7	7	15	9	6	6	3

Or

Calculate mean, variance and standard deviation for the following distribution

Classes	30-40	40-50	50-60	60-70	70-80	80-90	90-100
Frequency	3	7	12	15	8	3	2

36. Case Study I:

In a library, 25 students read physics, chemistry and mathematics books. It was found that 15 students read mathematics, 12 students read physics while 11 students read chemistry. 5 students read both mathematics and chemistry, 9 students read physics and mathematics. 4 students read physics and chemistry and 3 students read all three subject books.

    (i). How many number of students who reading only chemistry?
    (ii). How many number of students who reading only mathematics?
    (iii). How many number of students who reading only one of the subjects?
    (iv). How many number of students who reading atleast one of the subject?

37. Case study II:

A state cricket authority has to choose a team of 11 members, to do it so the authority asks 2 coaches of a government academy to select the team members that have experience as well as the best performers in last 15 matches. They can make up a team of 11 cricketers amongst 15 possible candidates. In how many ways can the final eleven be selected from 15 cricket players if:

    (i). There is no restriction?
    (ii). one of then must be included
    (iii). Two of them being leg spinners, one and only one leg spinner must be included?
    (iv). If there are 6 bowlers, 3 wicket-keepers, and 11 batsmen in all. The number of ways in which a team of 4 bowlers, 2 wicket-keepers, and 5 batsmen can be chosen.

38. Case Study III:

In a company, 100 employees offered to do a work. In out of them, 10 employees offered ground floor only, 15 employees offered first floor only, 10 employees offered second floor only, 30 employees offered second floor and ground floor to work, 25 employees offered first and second floor, 15 employees offered ground and first floor, 60 employees offered second floor.

    (i). Find the number of employees who offered all three floors.
    (ii). Find the number of employees who offered ground floor.
    (iii). Find the number of employees who offered first floor.

The number of employees who did not offer any of the above three floors.

………………………………………………………………………………………...

TIME: 3 HRS.   **M.M-70**

General Instructions:

1) **The question paper consists of five sections and 37 Questions.**
2) **Section A consists of question 1-18 carrying 1 mark each and is multiple choice questions. AllQuestions are compulsory.**
3) **Section B consists of question 19-24 carrying 2 marks each and are very short answer types and shouldnot exceed 60-90 words. Attempt any 5.**
4) **Section C consists of question 25-30 carrying 3 marks each and are short answer types and should notexceed 100-150 words. Attempt any 5.**
5) **Section D consists of question 31-33 carrying 4 marks each and are case studies. There is internal choiceavailable.**
6) **Section C consists of question 34-37 carrying 5 marks each and are long answer types and should notexceed 200-300 words. Attempt any 3.**

Section -A

Q(1) The sport which is not included in the Olympics is:
    (a) Cricket   (b) Football
    (c) Athletics   (d) Hockey

Q(2) Which of the following is not an objective of Fit India programme?
    (a) Fitness for all   (b) To encourage masculine body
    (c) Encourage indigenous sports   (d) Fitness reach every school

Q(3)Who is the Father of the Modern Olympic Games?
    (a) Pierre-de-coubertin   (b) Aristotle
    (c) John Pele   (d) None of these

Q(4)The values of Olympics are:
    (a) Excellence   (b)Respect   (c)Friendship   (d)All of these

Q(5) Kapalbhati improves the functioning of the:
    (a) Lungs   (b) knees   (c)joints   (d)liver

Q(6)

Column A	Column B	
A. Principle of Variety	(i)	training should be a continuous process.
B. Principle of Continuity	(ii)	alternate between heavy, light and moderate exercise.
C. Principle of Overload	(iii)	fitness level of every person varies
D. Principle of Individual Difference	(iv)	additional stress on the body

Option	Code			
	A	B	C	D
a)	iv	ii	i	iii
b)	i	ii	iii	iv
c)	iii	iv	ii	i
d)	ii	i	iv	iii

Q(7) The word 'YOGA' is derived from which Sanskrit word?

(a) Nir   (b) Yuj   (c) Yukti   (d) None of these

Q(8)Which Indian athlete won a Gold medal in Tokyo Olympics in Javelin?
    (a) Neeraj Chopra   (b) PV Sindhu   (c) Lovlina Borgohain   (d) Manpreet Singh

Q(9) Which of the following can be the cause of disability?
    (a) Ignorance   (b)Poverty   (c)Accident   (d)All of these

Q(10) Performing Daily Chores without any fatigue is :
    (a) Mental wellness   (b) Dynamic ability   (c) Physical Fitness   (d) None of these
Q(11) The blood oxygenates the:
    (a) Air   (b) Water   (c) Blood   (d) Acid
Q(12) What is the primary cause of lifestyle diseases such as high blood pressure, diabetes, heart attack?
    (a) Poor eating habits   (b) Lack of exercise
    (c) Sedentary lifestyle   (d) All of the above

Q(13) Study of the motion is:
    (a) Kinesiology   (b) Operation science
    (c) Structural science   (d) None of these

  Q(14) A motion that pulls a body part away from the midline of the
body is :
    (a)Abduction   (b)Adduction   (c)Distance   (d) None of these

Q(15) Muscular endurance can be improved by :
    (a) Jogging   (b) Cycling   (c) Dancing   (d) All of the above

Q(16) **The study of Human behaviour is**
    (a)Psychology   (b)Home science (c)Social science   (d) Political science

Q(17) **Wind pipe is related to:**
    (a)Circulatory system   (bRespiratory system   (c)Digestive system   (d) None of these

Q(18) Body Mass Index (BMI) is a measure of body :
    (a) Fat   (b) Vitamins   (c) Carbohydrates   (d) None of these

Section-B

Q(19) What is the aim of physical education? Explain.

Q(20) Explain the Olympic values.

Q(21) What do you understand by Neti Kriya?

Q(22) What is intellectual disability?

Q(23) Write the components of wellness.

Q(24) Explain any two functions of the skeletal system.

Section-C

Q(25) Explain internal and external respiration.
Q(26) Give any three management techniques for adolescent problems.

Q(27) Describe the benefits of Pranayama.

Q(28) What are the causes and symptoms of overload.

Q(29) What is Dhouti Kriya?Describe its benefits.

Q(30) How is physiotherapist helps children with special needs ?

Section-D

Q(31) Abhimanyu is a physical Education Teacher. It makes him very sad to know that there are many children with disabilities in his school who are unable to participate in physical education activities and so he decides to include participation of such students also in physical education activities. He started contribute in the physical improvement of a disabled child through special organisation, suitable venue and appropriate and improved material. He also requests to the Principal for the availability of various professionals in the school for children with disabilities. He also keeps the CWSN students informed about the various competitions organized for them in order to create interest in sports among them. On the basis of the above, answer the following questions.

(i) What are the objectives of adapted physical education?
(ii) What is the role of special educator for a CWSN?
(iii) What is the role of counsellor for a Divyang person?

Q(32) Divya and jolly are good Basketball players. Both of them practice regularly. But during competition Jolly performs good while Divya is not able to perform so well most of the time. One day she decided to ask the reason for the good performance to Jolly. Being a good friend, Jolly told her that she also wasn't able to perform well earlier then her coach adviced to execute the game still keeping in mind the basic principles of biomechanics.
On the basis of the above data, answer the following questions:
(i) How Jolly was able to demonstrate better game? Discuss.
(ii) Discuss the importance of Biomechanics in games and sports.
(iii) Biomechanics is the study of mechanical laws related to the movement. Discuss.

Q(33) Evaluation and measurement is important to assess the base and then the progress in all facets of life, more so in the sports. Performance enhancement is always a goal but one needs to know and understand the starting baseline. Before any sports can be initiated, a clear understanding of why it is important to test, measure and evaluate any performance has to be in place. As the PE teacher of your school, you have to lay out the reasons for implementing testing and measurement.
(i) What do you understand by test, measurement and evaluation?
(ii) Why is it important?
(iii) How do these factors help you in effective planning of the school sports curriculum?

SECTION -E

Q(34)Discuss in detail the Khelo India Scheme.

Q(35) Describe the various elements of yoga.

Q(36) Discuss the management of adolescent problems.

Q(37) Explain doping and its classification.

St. PBN PUBLIC SCHOOL
ANNUAL EXAMINATION
CLASS XI
COMPUTER SCIENCE
(SUBJECT CODE-083)
SAMPLE PAPER

Time: 3 hours   **M.M:70**

GENERAL INSTRUCTIONS:
- Please check this question paper contains 35 questions.
- This paper is divided into 5 Sections- A, B, C, D and E .
- Section A, consists of 18 questions (1 to 18).Each question carries 1 mark.
- Section B, consists of 7 questions (19 to 25). Each question carries 2 marks.
- Section C, consists of 5 questions (20 to 30). Each question carries 3 marks.
- Section D, consists of 3 questions (31 to 33). Each question carries 5 marks.
- Section E consists of 2 questions (34 to 35). Each question carries 4 marks.
- All programming questions are to be answered using Python Language only.

.

SECTION- A

Choose the correct option and write in the answer sheet   **(1 x 18 = 18)**

1. How many bytes are in 1 Kilobyte?

    (a) 8 Bytes   (c) 1024 Bytes

    (b) 128 Bytes   (d) 256 Bytes

2. Convert $(300)_{10}$ into Hexadecimal equivalent.

    (a) $(12C)_{16}$ (c) $(32A)_{16}$

    (b) $(4D)_{16}$ (d) $(16B)_{16}$

3. Which of the following statements assigns the value 25 to the variable x in Python:

    (a) x ← 25   (c) x := 25
    (b) x = 25   (d) int x = 25

4. The data or text enclosed with single quote, double quote or triple quote is known as _____.

    (a) String   (c) Tuple

    (b) List   (d) Dictionary

5. The interactive interpreter of python is termed as _____

    (a) Python Shell   (c) Python Editor Mode

    (b) Python Script Mode   (d) Python Command Line

6. _____ are diagrams that show the step by step solution to a given problem.

(a)Pie Chart   (c)Column Chart

(b)Flow Chart   (d) Bar Chart

7. Which of the following falls under utilities?

    a) Text editor   c) Disk defragmenter

    b) Backup   d) All of these

8. Which abandons the current iteration of the loop?

(a)continue   (c) stop

(b)break   (d) infinite

9. Identify the invalid identifiers from the given options.

(a) 981a   (c)a0

(b)a   (d) _a0

10. Index of list starts from _____

    (a) 10   (c) 11

    (b) 0   (d) 110

11. Which of the following operator is used to concatenate the strings

    (a) +   (c) /

    (b) *   (d) -

12. Dictionary has a Unique _____

    a) value   c) both

    b) key   d) none of these

13. When a person is harassed repeatedly by being followed, called or written to, he/she is a target of:

    (a) Bullying   c) Stalking

    (b) Identity theft   (d) Phishing

14. Which of the following is not a cybercrime?

    (a) Denial of Service   (c) Malware

    (b) Man in the Middle   (d) None of the above

15. Which of the following is an relational operator?

    a) =   c) + =

    b) <=   d) None of these

16. _____ software is made to perform a specific task
    a) System   c) Utility
    b) Application   d) None of these

Q17 and 18 are ASSERTION AND REASONING based questions. Mark the correct choice as

    a) Both A and R are true and R is the correct explanation for A

    b) Both A and R are true and R is not the correct explanation for A

    c) A is True but R is False

    d) A is false but R is True

17. Assertion (A): Higher precedence operator is evaluated before the lower precedence operator.

    Reason (R): For operators with equal precedence, the expression is evaluated from right to left.

18. Assertion (A): Data types are used to identify the type of data.

    Reason (R): Data types are two types as numbers and strings.

<div align="center">

SECTION B

</div>

<div align="right">

(2x 7 = 14)

</div>

19. (i) What will be the output of following code?

```
>>> print("14<=46:",14<=46)
```

    (ii) What will be the output of the following snippet?

```
list1=[8,0,9,5]

print(list1[::-1])
```
<div align="right">(1+1)</div>

20. (i) Write the python statement to type cast the float value of r = 98.40 into an integer type.

    (ii) Which statement is used in python to terminate the infinite loop?   (1+1)

21. (i) Convert (ABCD)$_{16}$ to ( )$_2$

    (ii) Draw a truth table of XOR Gate.   (1+1)

<div align="center">

OR

</div>

    State and Prove De Morgan's First law using truth table   (2)

22. Write a program to calculate the sum of all the elements of a list.   (2)

23. Write Python code to find the number of words in a string input by the user.   (2)

24. (i) Predict the output of the following code.

Keys = {1,2,3,4,5}

print(dict**.**fromkeys(keys))

(ii) What is packing of tuples? (1+1)

25. What is the difference between Syntax error and Run-time error? (2)

SECTION C

(3x 5 = 15)

26. Draw the truth table and logical circuit of the given Boolean expression: F= P.Y + D**.** T+(A.B) (3)

27. Write a Program in python to check whether the given string is Palindrome or not

(3)

28. What do you mean by Flowchart? Explain with example.

OR

Draw a flowchart to print the sum of first 10 natural numbers. (3)

29. Explain the following terms:
  (i) Application software
  (ii) EEPROM
  (iii)Bar code reader (3)

30. Write an algorithm to check whether a number is prime number or not. (3)

SECTION D

(5x 3 = 15)

31. Draw the logic circuit and truth table for the following Boolean expression:

  i. $(P' + D) . S + R'$

  ii. $(A .B) . (B+C . D')$ (2+3)

32. (i) Write a Python program to accept a list of all the subject of Class X and display the list of subjects.

  (ii) Write a Python program to calculate area of circle and area of rectangle using concept of functions.

OR

(Option for (ii) part only)

What are the effects of cyber bullying and trolling? (3+2)

33. (i) Why is it important to recycle e-waste?
  (ii) What are the techniques used in India for E-waste management? (3+2)

SECTION E

(2 x 4 = 8)

34. ABC Technologies deals in hardware components required for assembling computer systems in the Nehru Place market. They provide reliable and efficient data storage devices to their customers.

Four storage devices in which they deal are described below. Name the storage device being described and also list the appropriate category of storage.

(i) Optical media which use one spiral track; red lasers are used to read and write data on the media surface; makes use of dual-layering technology to increase storage capacity.

(ii) Non-volatile memory chip: contents of the chip cannot be altered; it is often used to store the start-up routines in a computer.

(iii) Optical media which use blue laser technology to read and write data on the media surface.

(iv) Magnetic disc with very large storage capacity; can be used to store vast amounts of data; mostly fixed in computer cases and serves as the main storage device. (1+1+1+1)

35. **(i) Write a python program to print the following pattern:**

```
A
B B
C C C
D D D D
E E E E E
F F F F F F
G G G G G G G
```

(ii) Write a program to create a dictionary of phone numbers and person's name. Also write the code to search the phone number of a particular person name inputted by user. (2+2)