St. PBN PUBLIC SCHOOL
HALF YEARLY EXAMINATION
CLASS-XII
BUSINESS STUDIES
SAMPLE PAPER

Time: 3 Hours   **M.M: 80**

General Instructions:
1. This question paper contains 34 questions.
2. Marks are indicated against each question.
3. Answers to questions carrying 1 mark should be in one word/sentence.
4. Answers to questions carrying 3 marks should be about 50–75 words.
5. Answers to the questions carrying 4 marks should be about 150 words.
6. Answers to the questions carrying 6 marks should be about 200 words.
7. Attempt all parts of a question together.

1   Mr. A is the production manager of X Ltd. He was able to produce the desired output but not within the stipulated time. In this case, the manager was: 1

a) Effective only	b) Efficient only
c) Both effective and efficient	d) Neither effective nor efficient

2   Identify the principle of management given by Fayol according to which 'The intent of this principle is to produce more and better work with the same effort'.   1

a) Division of work	b) Unity of direction
c) Scalar chain	d) Equity

3   Sudden announcement of demonetization by our 'Prime Minister' is an example of which feature of business environment?   1

a) Relativity	b) Specific and general forces
c) Inter-relatedness	d) Uncertainty

4   'This principle gives rise to a spirit of mutual trust and belonginess among team members.' Which principle stated by Fayol is highlighted by this statement?   1

a) Initiative	b) Esprit de corps
c) Equity	d) Remuneration of

	employees

5 The type of organizational structure in which jobs of similar nature are grouped together based on functions to form departments is called: 1

a) Functional structure	b) Divisional structure
c) Informal structure	d) Grouped structure

6 Changes or events cannot be eliminated but they can be anticipated and managerial responses to them can be developed" is suggested by the following importance of planning: 1

(a) Planning facilitates decision making	(b) Planning promotes innovative ideas
(c) Planning provides direction	(d) Planning reduces the risks of uncertainty.

7 Net working capital refers to: 1

a) Current assets – Current liabilities	b) Current assets + Current liabilities
c) Current liabilities - Current assets	d) None of the above

8 One of the following is an extension of the marketing concept, which apart from customer satisfaction, pays attention to ethical and ecological aspects of marketing. Identify the concept.   1

a) Selling concept	b) Product concept
c) Production concept	d) Societal marketing concept

9 A decision to acquire a new and modern plant to upgrade an old one is a: 1

a) Financing decision	b) Working capital decision
c) Investment decision	d) Dividend decision

10 In the following question, read the statements: Assertion (A) and Reason (R). Choose one of the correct alternatives given below: 1
Assertion (A) –Principles of management make administration more effective.
Reason (R) – Principles are flexible and can be modified to meet

the dynamic business environment.

Alternatives:

(a) 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, but Reason (R) is not the correct explanation of Assertion (A).

(c) Assertion (A) is true, but Reason (R) is false.

(d) Assertion (A) is false, but Reason (R) is true.

11 Divisional heads and department heads belong to _____ level of management.   1

a) Top Level	b) Middle Level
c) Supervisory Level	d) Operational Level

12 Arrange the following steps in the process of organizing in the correct sequence.   1

a) Assignment of duties	b) Departmentalization
c) Identification and division of work	d) Establishing reporting relationship

13 Read the following statements and choose one of the correct alternatives given below: 1

Alternatives:

(a) Both the statements are true.

(b) Both the statements are false.

(c) Statement 1 is true but statement 2 is false.

(d) Statement 2 is true but statement 1 is false.

Statement 1: Advertising is an impersonal form of communication.

Statement 2: Advertising lacks direct feedback.

14 A leading pizza chain recently introduced 'Momo Mia Pizza' - a combination of pan pizza with momos in its crust. Their market research had revealed that moms are the second most loved street food of India right after golgappas. They wanted to be the first company to take advantage of this opportunity rather than losing out to competitors. The point of importance of understanding of business environment discussed above is: 1

a) Tapping useful resources	b) Identify opportunities and getting the first mover advantage
c) Improvement in performance	d) Coping with rapid changes

15 Arnav has recently started a business to sell computers. He hired a shop in Nehru Place in New Delhi, where he assembles various components to make computers and supplies them as per order. He performs a series of composite but separate functions simultaneously and ensures that computers are delivered in time as per orders. These functions are performed by all managers at all times. The feature of management highlighted above is: 1

a) Management is a continuous process	b) Management is pervasive
c) Management is dynamic	d) Management is a group activity

16 Planning is closely connected with _____and _____.   1

a) Responsibility, Accountability	b) Delegation, Decentralization
c) Stability, Security	d) Creativity, Innovation

17 Which of the following is an example of social environment.   1

a) Money supply in the economy	b) Consumer Protection Act
c) The Constitution of the country	d) Composition of the family

18 From the set of statements given in Column I and Column II, choose the correct pair of statements: 1

Column I	Column II
a) Unity of Command	(i) One head and one plan
b) Fatigue Study	(ii) Aims to cut down unproductive movements
c) Unity of Direction	(iii) Subordinates receive orders and are accountable to only one superior
d) Method Study	(iv) One best way of doing a job

19 "Anyone can be called a manager irrespective of the educational qualification possessed." Identify the characteristics of the profession that management does not fulfil in the statement   1

discussed above.

a) Ethical Code of Conduct	b) Professional Association
c) Restricted Entry	d) Service Motive

20 "Subsidy provided by the government for textile industries has a positive impact on textile business" Which component of business environment is highlighted in this case?

a) Technological environment	b) Social Environment
c) Political environment	d) Economic Environment

1

21 Give the meaning of management and explain how it 'creates a dynamic organisation' and 'helps in the development of society'.

3

22 Explain the following characteristics of management:
  (i)   Management is a group activity.
  (ii)   Management is a dynamic function.
  (iii)   Management is multidimensional.

3

OR

Explain the following as nature of principles of management:
  (i)   Formed by practice and experience.
  (ii)   Contingent.
  (iii)   Cause and effect relationship.

23 Ajay was appointed the marketing head of "Alfa Enterprises" manufacturers of toothpaste and toothbrush. His target sale was 2,000 units a month. Apart from thinking about various channels of distribution to achieve the target, he himself started visiting schools in backward areas. He found that even after taking various steps and counseling, some school children had not started brushing their teeth. He investigated and found that they could not afford to buy toothbrush and toothpaste. So, with due permission, he started donating 200 toothbrush and toothpaste every month to the school.

Identify the channel of distribution, Ajay would adopt for distribution of toothpaste and toothbrush in schools and justify it by giving one reason.

3

24 State any three functions performed by the Stock Exchange.

3

OR

Differentiate between capital market and money market based on:
(i) Liquidity; (ii) Duration and (ii) Expected return.

25 Which function of management coordinates human efforts, assembles resources, and integrates both into a unified and whole to be utilized for achieving specified objectives? Explain its

4

importance by giving any four points.

<center>OR</center>

Highlight the difference among authority, responsibility, and accountability with appropriate basis of difference.

26 Explain 'policies and 'procedure' as the types of plans.   4
Differentiate between the two on any four basis.

<center>OR</center>

Explain any four points of importance of planning for a large
business enterprise.

27 To promote orderly and healthy growth of securities market and   4
protection of investors, Securities and Exchange Board of India
was set up? With reference to this statement, explain the objectives
of Securities and Exchange Board of India.

28 Krish limited is in the business of manufacturing and exporting   4
carpets and other home decor products. It has a share capital of ₹
70 lakh at the face value of ₹ 100 each. Company is considering a
major expansion of its production facilities and wants to raise ₹ 50
lakh. The finance manager of the company, Mr. Prabhakar, has
recommended that the company can raise funds of the same
amount by issuing 7% Debentures. Given that earning per share of
the company after expansion is ₹ 35 and tax rate is 30%, did Mr.
Prabhakar give a justified recommendation? Show the working.

29 "A good understanding of environment by business managers   4
enables them not only to identify and evaluate but also to react to
the forces external to their firm.

In the light of the above statement, explain any four points of
importance of understanding business environment by a manager.

30 Rishitosh Mukerjee has recently joined AM Ltd., a company   4
manufacturing refrigerator. He found that his department was
under-staffed and other departments were not cooperating with his
department for the smooth functioning of the organisation.
Therefore, he ensured that his department has the required number
of employees and its cooperation with other departments is
improved.

(a) Identify the level at which Rishitosh Mukerjee was working.

(b) Also, state three more functions required to be performed by
Rishitosh Mukerjee at this level.

31   1. Explain any two principles of scientific management from   3+3=6
the following:
a) Method Study

b) Motion Study
c) Time Study
2. Differentiate between Unity of command and Unity of direction on any three basis.

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

1. Explain any two principles of Fayol from the following:
   a) Discipline
   b) Order
   c) Initiative

3+3=6

2. Differentiate between contributions made by F.W Taylor and Henry Fayol on any three basis.

32 After completing her studies in product design, Sarah wishes to start her own business to design products to cater to the mobility and communication requirements of persons with special needs. She told her friend that she wanted to focus on supplying high quality and affordable products on "no profit - no loss basis". The Unique Selling Proposition (U.S.P.) of the products will be sensitivity to the challenges and needs of the differently abled. She must follow a series of steps to attain her predetermined objectives.

In the above lines, Sarah has discussed about one of the functions of management. Identify the function and explain its steps in chronological order other than the one discussed in the above para.

6

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

Explain any four points of importance of organizing.

33 'Advertising' and 'Personal Selling' both are communication tools used by the marketers to promote their products. yet they differ in their approach.

6

Differentiate between the two by giving any four differences.

34 Two years ago, Madhu completed her degree in food technology. She worked for some time in company manufacturing chutney, pickles and murabbas. She was not happy in the company and decided to have her own organic food processing unit for the same. She set the objectives and the targets and formulated action plan to achieve the same.

6

One of her objectives was to earn 10% profit on the amount invested in the first year. It was decided that raw materials like fruits, vegetables, spices etc. will be purchased on three months credit from farmers cultivating organic crops only. She also

decided to follow the steps required for marketing of the products through her own outlets. She appointed Mohan as a Production Manager who decides the exact manner in which the production activities are to be carried out. Mohan also prepared a statement showing the number of workers that will be required in the factory throughout the year. Madhu informed Mohan about her sales target for different products, area wise for the forthcoming quarter. While working on the production table, a penalty of ₹ 100 per day for not wearing the caps, gloves and apron was announced.

Quoting lines from the above para, identify and explain the different types of plans discussed.

St. PBN PUBLIC SCHOOL
HALF YEARLY EXAMINATION 2024
CLASS XII
COMPUTER SCIENCE
(SUBJECT CODE-083)
SAMPLE PAPER

Time: 3 Hours   **M.M:70**

NAME: _____   **DATE: _____**

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 (26 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. What happens if the base condition isn't defined in recursive programme?.
   - (a) Program gets into an infinite loop   (b) Program runs once
   - (c) Program runs n number of times, where n is the argument given to the function
   - (d) An exception is thrown

2. Fill in the line of code for calculating the factorial of a number :

   def fun (n):

   If (n>100):

   return n-5

   return fun(fun(n+11))

   print (fun(45))

   - (a) 50   (b) 100
   - (c) 74   (d) Infinite loop

3. Which file should be a folder part to be recognized as a package?
   - (a) ____main_____   (b) ____int_____
   - (c) ____float_____   (d) ____init_____

4. _____ is a pile in which items are added at one end and removed from the other.
   - (a) Stack   (b) Queue
   - (c) List   (d) Tuple

5. A row of table in a relational model terminology is classified as :

（a) Range   (b) Domain

（c) Relation   (d) Tuple

6. Which of the following python statements will bring the read pointer to 10th character from the end of a file containing 100 characters, opened for reading in binary mode.

（a) File. Seek (10, 0)   (b) File. Seek (10, 0)

（c) File. Seek (-10, 1)   (d) File. Seek (10, 2)

7. The error encountered when a user violates the syntax of a programming language while writing a code are termed as…………

（a) Compile time error   (b) Logical Error

（c) Runtime error   (d) Exception

8. Which of the following options is the correct usage for the tell ( ) of a file object?

（a) It places the file pointer at a desired offset in a file.

（b) It returns the entire content of a file.

（c) It returns the byte position of the file pointer as an integer.

（d) It tells the details about the file.

9. What will the following expression be evaluated to in Python?

print (round (100.0 / 4 + (3 + 2.55) , 1))

（a) 30.0   (b) 30.55

（c) 30.6   (d) 31

10. Which of the following modes is used for both writing and reading from a binary file?

（a) wb+   (b)w   (c)wb   (d) w+

11. _____ Method establishes a database connection from within Python.

（a) Connect ( )   (b) connector ( )

（c) Connecting ( )   (d) sql.connector( )

12. Which of the following is TRUE about the Candidate key?

（a) Candidate keys are considered for all attributes except the primary key
（b) Both the candidate keys and the primary key are equally strong
（c) Both a & b
（d) None of these

13. Which of the following is an infix expression?

（a) (a+b) * (c+d)   (b) ab+c*

（c) +ab   (d) abc+*

14. Every record in a CSV file is stored in reader object in the form of a list using which method?

（a) writer ( )   (b) reader( )

（c) reader ( )   (d) List( )

15. Identify the correct output of the following Python code:

```
str="My program is program for you"
t = str.partition("program")
print(t)
```

   (a) ('My ', 'program', ' is ', 'program', ' for you')

   (b) ('My ', 'program', ' is program for you')

   (c) ('My ', ' is program for you')

   (d) ('My ', ' is ', ' for you')

16. Which following commands will delete the table from MYSQL database?

   (a) DELETE TABLE   (b) DROP TABLE

   (c) REMOVE TABLE   (d) ALTER TABLE

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 but 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): A binary file in python is used to store collection objects like lists and dictionaries that can be later retrieved in their original form using pickle module.

Reason (R): Binary files are just like normal text files and can be read using a text editor like notepad.

18 Assertion (A): RDBMS stands for Relational data base system

Reason (R): RDBMS does not allow relating or associating two tables in a data base

SECTION B

19.(a) What is the output of the following code?

```
def fun1(name, age=20):
    print(name, age)

fun1('Emma', 25)
```

(b) What is the output of the code shown below?

```
q23class12.py - C:/Users/Lenovo/AppData/Local/Programs/Python/Python310/anu/q23class...
File  Edit  Format  Run  Options  Window  Help
try:
  f = open("demofile.txt",'w')
  f.write("hello world")
except:
  print("Something went wrong when writing to the file")
finally:
    print("content written")
    f.close()
```

(1+1)

20 a) Write one point of difference between an equi-join and a natural join.

b) Consider the following table CARDEN given below:

C code	Car Name	Make	Color	Capacity	Charges
501	Scorpio	Mahendra	RED	3	14
503	Indigo	Tata	SILVER	3	12
502	Innova	Toyota	WHITE	7	15
509	SX4	Suzuki	SILVER	4	14
510	C Class	Mercedes	RED	4	35

Give the output of the following SQL queries:

    (i) SELECT Car Name FROM CARDEN WHERE Capacity=4;

    (ii) SELECT MAX(Charges) , MIN(Charges) FROM CARDEN;   (1+1)

21 a) What will be the output of the following string operation?

str="PYTHON@LANGUAGE"

Print (str[2:12:2])

b) Difference between IO Error and Index Error?   (1+1)

22 Ravi has written a python function to compute the reverse of a number. He has however committed a few errors in his code. Rewrite the code after removing errors also underline the corrections made.

```
define reverse(num):
 rev = 0
 While num > 0:
 rem == num %10
 rev = rev*10 + rem
 num = num//10
return rev
print(reverse(1234))
```

(2)

22. a) An SQL table ITEMS contains the following columns:

INO, INAME, QUANTITY, PRICE, DISCOUNT

Write the SQL command to remove the column DISCOUNT from table.

b) Differentiate between DDL and DML. Mention the two commands for each category. (1+1)

23. MySQL table, 'sales' have 10 rows. The following queries were executed on the sales table.

SELECT COUNT (*) FROM sales;

COUNT(*)
10

SELECT COUNT (discount) FROM sales;

COUNT(discount)
6

Write a statement to explain as to why there is a difference in both the counts. (2)

24. Predict the output of the Python code given below:

```python
data=["L",20,"M",40,"N",60]
times=0
alpha=""
add=0
for c in range(1,6,2):
 times = times + c
 alpha = alpha + data [c-1] + "@"
 add = add + data[c]
print (times, add, alpha)
```

(2)

SECTION C

(3x 5 = 15)

25. (i) What is the difference between read line ( ) and read lines ( ) function?

(ii) Write a Python program to open the file *hello.txt* in read mode to display its contents. What will be

the difference if the file was opened in write mode instead of append mode? (1+2)

26. (i) Why stack is called FIFO data structure?

(ii) Evaluate following postfix expressions while showing status of stack after each operation given A=4,

B=5, C=2, D = 3: **A B * C/ D *** (1+2)

27. Convert ((A +B)*C/D+E ^F)/G into postfix form showing stack status after every step.

OR

Write a function in Python, **Make Push (Package)** and **Make Pop (Package)**, to add a new Package and
delete a Package from a List of Package description, considering them to act as push and pop operations
of Stack data structure. (3)

28. Write definition of a method MSEARCH (STATES) to display all the state names from a list of STATES which start with the alphabet M.

For example: is the list STATES contains

["MP","UP","WB","TN","MH","MZ","DL","BH","RJ","HR"]

The following should be displayed:

MP

MH

MZ   (3)

29. Write the output for SQL queries (i) to (iii), which are based on the table: **SCHOOL** and **ADMIN** given below:

TABLE: SCHOOL

CODE	TEACHERNAME	SUBJECT	DOJ	PERIODS	EXPERIENCE
1001	RAVI SHANKAR	ENGLISH	12/03/2000	24	10
1009	PRIYA RAI	PHYSICS	03/09/1998	26	12
1203	LISA ANAND	ENGLISH	09/04/2000	27	5
1045	YASHRAJ	MATHS	24/08/2000	24	15
1123	GANAN	PHYSICS	16/07/1999	28	3
1167	HARISH B	CHEMISTRY	19/10/1999	27	5
1215	UMESH	PHYSICS	11/05/1998	22	16

TABLE: ADMIN

CODE	GENDER	DESIGNATION
1001	MALE	VICE PRINCIPAL
1009	FEMALE	COORDINATOR
1203	FEMALE	COORDINATOR
1045	MALE	HOD
1123	MALE	SENIOR TEACHER
1167	MALE	SENIOR TEACHER
1215	MALE	HOD

(i) SELECT SUM (PERIODS), SUBJECT FROM SCHOOL GROUP BY SUBJECT;

(ii) SELECT TEACHERNAME, GENDER FROM SCHOOL, ADMIN WHERE DESIGNATION = 'COORDINATOR' AND SCHOOL.CODE=ADMIN.CODE;

(iii) SELECT COUNT (DISTINCT SUBJECT) FROM SCHOOL;   (3)

SECTION D

(5x 3 = 15)

30. Consider the following tables STOCK and DEALERS:

Table: STOCK

Item No	Item	Dcode	Qty	UnitPrice	StockDate
5005	Blue Ball Pen 0.5	102	100	16	31-Mar-10
5003	Black Pen 0.25	102	150	20	01-Jan-10
5002	Blue Gel Pen Premium	101	125	14	14-Feb-10
5006	Black Gel Pen	101	200	22	01-Jan-09

	Classic				
5001	Ruler small	102	210	5	19-Mar-09
5004	Eraser Big	102	60	10	12-Dec-09
5009	Sharpener Classic	103	160	8	23-Jan-09

Table: DEALERS

Dcode	D name
101	Reliable Stationers
103	Classic Plastics
104	Fair Deals
102	Clear Deals

Write SQL commands for the given statements from (i) to (iv) and output for (v):

(i) To display details of all items in the STOCK table in ascending order of StockDate.

(ii) To display ItemNo and Item name of those items from STOCK table whose UnitPrice is more than 10?

(iii) To display the details of those items whose dealer code (Dcode) is 102 or Quantity in STOCK (Qty) is more than 100 from the table Stock.

(iv) To display the Maximum Unit Price of items for each dealer individually as per Dcode from the table Stock

(v) SELECT COUNT(DISTINCT Dcode) FROM STOCK; (5)

31. (i) DAV School is managing student data in 'Student' table in 'school' database. Write a Python code that connects to database school and retrieves all records and displays total number of students.

(ii) Write SQL commands to create a database TESTDB in MySQL. Also create a table EMPLOYEE with fields FIRST_NAME, LAST_NAME, AGE and INCOME. (3+2)

OR

(Option for part (ii) only)

Write a program to enter the following records in a binary file:

Item_No   integer

Item_Name   string

Qty   integer

Price   float

Number of records to be entered should be accepted from the user. Read the file to display the records in the following format:

Item No:

Item Name:

Quantity:

Price per item:

Amount: (to be calculated as Price * Qty)

32. (i) What do you mean by candidate key and Foreign Key?

(ii)Write a function in PUSH (Arr), where Arr is a list of numbers. From the list, push all the number divisible by 5 into a stack implementation by using a list. Display the stack if it if it has at least one element, otherwise display appropriate error message.

(1+4)

SECTION E

(2 x 4 = 8)

33. Write SQL command for (i) to (iv) on the basis of tables INTERIORS and NEWONES

Table: INTERIORS

NO	ITEMNAME	TYPE	DATEOFSTOCK	PRICE	DISCOUNT
1	Red rose	Double bed	23/02/02	32000	15
2	Soft touch	Baby cot	20/01/02	9000	10
3	Jerry's home	Baby cot	19/02/02	8500	10
4	Rough wood	Office Table	01/01/02	20000	20
5	Comfort zone	Double bed	12/01/02	15000	20
6	Jerry look	Baby cot	24/02/02	7000	19
7	Lion king	Office Table	20/02/02	16000	20
8	Royal tiger	Sofa	22/02/02	30000	25
9	Park sitting	Sofa	13/12/01	9000	15
10	Dine Paradise	Dining Table	19/02/02	11000	15

Table: NEWONES

NO	ITEMNAME	TYPE	DATEOFSTOCKS	PRICE	DISCOUNT
11	White wood	Double bed	23/03/03	20000	20
12	James 007	Sofa	20/02/03	15000	15
13	Tom look	Baby cot	21/02/13	7000	10

(i)   To show all information about the sofas from the INTERIORS table.

(ii)   To list the ITEMNAME which are priced at more than 10,000 from the INTERIORS table.

(iii)   To list ITEMNAME and TYPE of those items, in which DATEOFSTOCK is before 22/01/02 from the INTERIERS table in the descending order of ITEMNAME.

(iv)   To count the number of items, whose type is "Double Bed" from INTERIOR table.

(1+1+1+1)

34. In a Database, there are two tables given below:

Table : EMPLOYEE

EMPLOYEEID	NAME	SALES	JOBID
E1	SAMIT SINHA	1100000	102
E2	VIJAY SINGH TOMAR	1300000	101
E3	AJAY RAJPAL	1400000	103
E4	MOHIT RAMNANI	1250000	102
E5	SHAILJA SINGH	1450000	103

Table : JOB

JOBID	JOBTITLE	SALARY
101	President	200000
102	Vice President	125000
103	Administration Assistant	80000
104	Accounting Manager	70000
105	Accountant	65000
106	Sales Manager	80000

Write SQL Queries for the following:

(i) To display employee ids, names of employees, job ids with corresponding job titles.

(ii) To display names of employees, sales and corresponding job titles who have achieved sales more than 1300000.

(iii) To display names and corresponding job titles of those employees who have 'SINGH' (anywhere) in their names.

(iv) Identify foreign key in the table EMPLOYEE.

(1+1+1+1)

Time: 3 Hours   **M.M:80**

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. Show that the relation R in the set {1, 2, 3} given by R={(1, 2), (2, 1)} is symmetric but neither reflexive nor transitive.

2. Let f: R → R be defined as f(x) = x^2. Choose the correct answer
   - (i)   f is one-one onto
   - (ii) f is one-one but not onto
   - (iii) f is many-one onto
   - (iv) f is neither on-one nor onto

3. Write the smallest equivalence relation R on set A={1, 2, 3}.

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

5. $tan^{-1}\left(\frac{x}{y}\right) - tan^{-1}\frac{x-y}{x+y}$ is equal to
   - (i) $\frac{\pi}{2}$
   - (ii) $\frac{\pi}{4}$
   - (iii) $\frac{\pi}{3}$
   - (iv) $\frac{-3\pi}{4}$

6. $A = [a_{ij}]_{m \times n}$ is a square matrix, if
   - (i)   m<n
   - (ii) m=n
   - (iii) m>n
   - (iv) none of these

7. If n=p, then the order of the matrix 7X-5Z is:
   - (i) $p \times 2$
   - (ii) $n \times 3$
   - (iii) $2 \times n$
   - (iv) $p \times n$

8. Construct a 2×2 matrix A=$[a_{ij}]$ whose elements are given by $a_{ij} = \frac{(i+2j)^2}{2}$.

9. Find the minor of element 8 in matrix $A = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}$.

10. If A is a square matrix of order 3 and $|2A| = k|A|$, then find the value of k.

11. Find the value of k in order that points (5, 5), (k, 1) and (10, 7) are collinear.

12. If A is a square matrix of order 3 such that $|adj\ A| = 64$, then find $|A|$.

13. The normal to the curve $x^2=4y$ passing (1, 2) is

   (i)   x+y=3   (iii)   x-y=3
   (ii) x+y=1   (iv)   x-y=1

14. The side of a square is increasing at a rate of 0.2 cm/sec. Find the rate of increase of the perimeter of the square.

15. Prove that the function $x^3-6x^2+12x-18$ is increasing on R.

16. $\int_1^{\sqrt{3}} \frac{dx}{1+x^2}$ equals

   (i) $\frac{\pi}{3}$ (iii) $\frac{2\pi}{3}$
   (ii) $\frac{\pi}{6}$ (iv) $\frac{\pi}{12}$

17. Evaluate: $\int \sec x(\sec x + \tan x)dx$.

18. Evaluate: $\int \sin 5x.\sin 3x dx$.

ASSERTION –REASON BASED QUESTIONS

In the following questions, a statement of Assertion(A) is followed by a statement of Reason(R).
Choose the correct answer out out of the following choices.
   a) Both (A) and (R) are true and (R) is the correct explanation of (A).
   b) Both (A) and (R) are true and (R) is not the correct explanation of (A).
   c) (A) is true but (R) is false.
   d) (A) is false but (R) is true.

19. **Assertion(A):** If A is a skew symmetric matrix, then A^2 is a symmetric matrix.
    Reason(R): If A is a skew symmetric matrix, then A'=-A.

20. Assertion(A): The possible number of reflexive relations of a set A whose n(A) =4 is 2^{12}.
    Reason(R): Number of reflexive relation on a set contain n elements is 2^{n2-n}.

Section B

21. Find the value of $tan^{-1}\left[2\cos\left(2sin^{-1}\frac{1}{2}\right)\right]$.

22. Prove that the greatest integer function f: R→R, given by $f(x) = [x]$, neither one-one nor onto.

23. Find the value of x, y and z from the following equation:
$$\begin{bmatrix} x+y+z \\ x+z \\ y+z \end{bmatrix} = \begin{bmatrix} 9 \\ 5 \\ 7 \end{bmatrix}.$$

Or

Prove that all the diagonal elements of a skew symmetric matrix are zero.

24. Differentiate sin^2x w.r.t. $e^{\cos x}$.

Or

Find $\frac{dy}{dx}$, if $x = a\cos\theta, y = a\sin\theta$.

25. Evaluate: $\int x\log(1+x)dx$.

or

Evaluate: $\int_0^3 \sqrt{9-x^2}dx$.

Section D

26. The radius of a circle is increasing uniformly at the rate of 3 cm/s. find the rate at which the area of the circle is increasing when the radius is 10 cm.

27. Show that relation R in the set A={x∈Z: 0≤x≤12}, given by R= {(a, b): a=b} is an equivalence relation. Find the set of all elements related to 1.

28. For what value of x : $[x \quad -5 \quad -1]\begin{bmatrix} 1 & 0 & 2 \\ 0 & 2 & 1 \\ 2 & 0 & 3 \end{bmatrix}\begin{bmatrix} x \\ 4 \\ 1 \end{bmatrix} = 0$?

or

Show that the matrix B'AB is symmetric or skew symmetric according as A is symmetric or skew symmetric.

29. For what value of λ is the function defined by
$$f(x) = \begin{cases} \lambda(x^2 - 2x), & if\ x \leq 0 \\ 4x+1, & if\ x > 0 \end{cases}$$
continuous at x=0. What about continuity at x=1?

30. Prove that the curves x=y² and xy=k cut at right angles if 8k²=1.

31. Evaluate : $\int(\sqrt{\tan x} + \sqrt{\cot x})dx$.

Or

Evaluate: $\int_0^{\frac{\pi}{2}} \log(\sin x)\,dx$.

Section E

32. For the matrix $A = \begin{bmatrix} 2 & 3 & 4 \\ 3 & 0 & 1 \\ 2 & 1 & 5 \end{bmatrix}$; verify that $A(adj\ A) = (adj\ A)A = |A|I_3$.

Or

If $A = \begin{bmatrix} 1 & -1 & 1 \\ 2 & 1 & -3 \\ 1 & 1 & 1 \end{bmatrix}$ then find A^{-1} and hence solve the system of equations:

$$x + 2y + z = 4, \qquad -x + y + z = 0, \qquad x - 3y + z = 2$$

33. Find the inverse of the matrix $\begin{bmatrix} 1 & 2 & -2 \\ -1 & 3 & 0 \\ 0 & -2 & 1 \end{bmatrix}$ and verify that

$$A.A^{-1} = A^{-1}. A = I$$

34. Show that the rectangle of maximum area, that can be inscribed in a circle of radius r is a square of side $\sqrt{2}r$.

35. Evaluate: $\int_0^{\frac{\pi}{4}} \frac{\sin x + \cos x}{\cos^2 x + \sin^4 x} dx$.

Or

Evaluate: $\int \frac{dx}{5 + 4\cos x}$.

Section B

36. Case study I:

An aeroplane can carry a maximum of 200 passengers. A profit of Rs. 1000 is made on each executive class ticket and a profit of rs. 600 is made on each economy class ticket. The airline reserves at least 20 seats for the executive class. However at least 4 times as many passengers prefer to travel by economy class, than by executive class tickets is x and that of economy class ticket is y.

Based on the given information, answer the following questions.

 a) The maximum value of x+y is_____ (1)
 b) The relation between x and y is_____ (1)
 c) The profit when x=20 and y=80 is_____ (2)

or

The maximum profit is Rs. _____

37. Case Study II:

The management committee of a residential colony decided to award some of its members (say x) for honesty, some (say y) for helping others and some others (say z) for supervising the workers to kept the colony neat and clean. The sum of all the awardees is 12. Three times the sum of awardees for cooperation and supervision added to two times the number of awardees for honesty is 33. The sum of the number of awardees for honesty and supervision is twice the number of awardees for helping.

Based on the given information, answer the following questions.

   a) x+y+z=_____   (1)
   b) x-2y=_____   (1)
   c) The value of z is _____   (1)
   d) The value of x+2y=_____   (1)

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

   The value of 2x+3y+5z=_____

38. Case Study III:

   $P(x) = -5x^2+125x+37500$ is the total profit function of a company, where x is the production of the company.

   a) What will be the production when the profit is maximum?   (1)
   b) What will be the maximum profit?   (1)
   c) When the production is 2 units what will be the profit of the company? (1)
   d) What will be the production of the company when the profit is 38250?   (1)

……...

TIME – 3 HRS.   **MM. 80**
GENERAL INSTRUCTIONS:

1. **All questions are compulsory.**

2. **Adhere to the prescribed word limit.**

SECTION – A (READING)   **(22 Marks)**

Q1. Read the passage given below. 12M

1. The art of living is learnt easily by those who are positive and optimistic. From humble and simple people to great leaders in history, science or literature, we can learn a lot about the art of living, by having a peep into their lives. The daily routines of these great men and women not only reveal their different, may be unique lifestyles but also help us learn certain habits and practices they followed. Here are some; read, enjoy and follow in their footsteps as it suits you.

2. A private workplace always helps. Jane Austen asked that a certain squeaky hinge should never be oiled so that she always had a warning whenever someone was approaching the room where she wrote. William Faulkner, lacking a lock on his study door, detached the doorknob and brought it into the room with him. Mark Twain's family knew better than to breach his study door-they would blow a horn to draw him out. Graham Green went even further, renting a secret office; only his wife knew the address and the telephone number. After all, every one of us needs a workplace where we can work on our creation uninterruptedly. Equally we need our private space too!

3. A daily walk has always been a source of inspiration. For many artists, a regular stroll was essentially a creative inspiration. Charles Dickens famously took three hour walks every afternoon, and what he observed on them fed directly into his writing. Tchaikovsky made do with a two-hour jaunt but wouldn't return a moment early; convinced that doing so would make him ill. Ludwig van Beethoven took lengthy strolls after lunch, carrying a pencil and paper with him in case inspiration struck. Nineteenth century composer Erik Satie did the same on his long hikes from Paris to the working-class suburb where he lived, stopping under street lamps to jot down ideas that came on his journey; it's rumoured that when those lamps were turned off during the war years, his music declined too. Many great people had limited social life too. One of Simone de Beauvoir's close friends puts it this way. ''There were no receptions, parties. It was an uncluttered kind of life, a simplicity deliberately constructed so that she could do her work.'' To Pablo the idea of Sunday was an 'at home day'.

4. The routines of these thinkers are difficult. Perhaps it is because they are so unattainable. The very idea that you can organise your time as you like is out of reach for

most of us, so I'll close with a toast to all those who worked with difficulties. Like Francine Prose, who began writing when the school bus picked up her children and stopped when it brought them back; or T.S. Eliot, who found it much easier to write once he had a day job in a bank than he had as a starving poet and even F. Scott Fitzgerald, whose early books were written in his strict schedule as a young military officer. Those days were not as interesting as the nights in Paris that came later, but they were much more productive–and no doubt easier on his liver.

5. Being forced to follow someone else's routine may irritate, but it makes it easier to stay on the path. Whenever we break that trail ourselves or take an easy path of least resistance, perhaps what's most important is that we keep walking.

Based on your understanding of the passage, answer the following questions.

(i) If the writer was forced to follow someone else's routine, they would feel _____.
(a) furious
(b) annoyed
(c) humored
(d) indifferent

(ii) Why did Jane Austen believe that a certain squeaky hinge should never be oiled?

(iii) Select the option that suitably completes the given dialogue as per the context of the Passage.
X. I don't think I can ever be a great writer like William Faulkner.
Y. Why do you think like this? ...
(1)....
X. No, I don't have weird habits and quirks like him.
Y.
(2)... you just have to give it a try.
(a) (1) Of course, you can be a good writer like him
    (2) That is true. But what can you do
(b) (1) You can be better than him
    (2) Yeah, he was a special one
(c) (1) But, I can see that you are right
    (2) Yeah, you don't have any special mannerism
(d) (1) Sure, you can be a great writer like him.
    (2) That doesn't really matter

(iv) According to the passage, why did Erik Satie's music decline?

(v) During which time did Fitzgerald write the most productively?

(vi) What is the relationship between (1) and (2)?

(1) The people who are hopeful and have a positive outlook in life can easily learn the art of living.

(2) A lot can be learnt about a person by looking into their lives.
(a) (2) is the cause for (1)
(b) (1) and (2) are independent
(c) (2) elaborates the problem described in (1)
(d) (2) sets the stage for (1)

(vii) According to the passage, why did some artists resort to walking?
(a) It is an exercise
(b) It was a creative inspiration
(c) It is essential for improving their health
(d) It was helpful in interaction with others

(viii) "Those days were not as interesting as the nights in Paris that came later..." Which days are referred to in this line?

(ix) Which quote best summaries the writer's feelings toward the artists mentioned in the passage?

(a) Life beats down and crushes the soul and art reminds you that you have one – Stella Adler
(b) There is no must in art because art is free–Wassily Kandinsky
(c) Art washed away from the soul the dust of everyday life – Pablo Picasso
(d) None of the above

(x) Select the option that lists what we can conclude from the text.
1. All the artists have already learnt the art of living.
2. If one is hopeful and sanguine, one can learn the art of living.
3. One should never follow in anyone else's footsteps.
4. By going on frequent walks, one can become a great artist.
5. Forcing a person to follow someone else's routine can be irritating.

(a) 2, 3 and 5
(b) 2 and 5
(c) 1, 2 and 4
(d) l, 3 and 5

Q2. Read the passage carefully and answer the following. 10M
1. In recent years, there has been a surge in both group and solo travel among young adults in India. A survey conducted among young adults aged 18-25 aimed to explore the reasons behind their travel preferences and recorded the percentage variation for 10 common points that influence travel choices.

2. Among those who prefer solo travel, the most common reason cited was the desire for independence and freedom (58%), followed closely by the opportunity for introspection and self-discovery (52%). Additionally, solo travellers appreciated the ability to customize their itinerary to their preferences (44%) and the chance to meet new people on their own terms (36%).

3. On the other hand, those who prefer group travel often cited the desire for socializing and making new friends (61%) as their primary reason. Group travel also provided a sense of security and safety in unfamiliar places (52%) and allowed for shared experiences and memories with others (48%). Additionally, group travellers enjoyed the convenience of having pre-planned itineraries and organized transportation (38%).

4. Interestingly, both groups had similar levels of interest in exploring new cultures and trying new experiences (40% for solo travellers, 36% for group travellers). Similarly, both groups valued the opportunity to relax and escape from the stresses of everyday life (36% for solo travellers, 32% for group travellers).

5. However, there were also some notable differences between the two groups. For example, solo travellers placed a higher priority on budget-friendly travel options (38%) compared to group travellers (24%). Conversely, group travellers were more likely to prioritize luxury and comfort during their travels (28%) compared to solo travellers (12%).

6. Overall, the survey results suggest that both group and solo travel have their own unique advantages and appeal to different individuals, based on their preferences and priorities.

Answer the following questions, based on given passage.
i. Infer two possible ways that the survey, mentioned in paragraph (1) could be beneficial. Answer in about 40 words.   2

ii. Which travel choice point of the survey would influence tour operators to incorporate group dinners, social events, and shared accommodations in their itinerary?   1
A. Freedom to customize itinerary
B. Luxury and comfort
C. Security and safety
D. Desire for making new friends

iii. What do the top choices in the survey, for traveling solo and in a group suggest about young adults?   1

iv. Identify the solo traveller from the following three travellers: 1
(a) Reshma- I don't want to keep hunting for rickshaws or taxis. A pre-booked vehicle is perfect.
(b) Nawaz-I'm happy sharing a room in a hostel. I don't need hotel accommodation.
(c) Deepak-I'm not worried about my well-being , even while exploring remote areas.

v. Which of the following is an example of an opportunity for self-discovery, as mentioned in paragraph 2?   1
A. Trying new cuisine
B. Hiring a tour guide
C. Purchasing local artifacts

D. Advance booking travel tickets

vi. How might the differences in budget priorities between solo and group travellers impact the types of accommodations and activities offered by the travel industry in India? 2

vii. Complete the sentence appropriately.   1
The similarities in the percentage of both solo and group travellers who are interested in exploring new cultures and trying new experiences may be due to _____.

viii. State TRUE or FALSE.   1
The title, "Wanderlust: The Solo Travel Trend among Young Adults in India", is appropriate for this passage.

SECTION B- CREATIVE WRITING SKILLS 18M

Q3. Attempt ANY ONE from A and B given below. 4M
You lost your wristwatch in your school auditorium. Write a notice in not more than 50 words for your school notice board giving a detailed description of the watch. You are Ansh/Anshika of class XII of ST. PBN Public School, Gurgaon.

OR

Your school is celebrating Grandparents' Day next week. Write a notice in 50 words to be put up on the school notice board informing students of the celebration and requesting them to be present with their grandparents. You are Samir/Suman, Head Boy/Head Girl ST. PBN Public School, Gurgaon.

Q4. Attempt ANY ONE from A and B given below. 4M
Modern Public School, Delhi is organising an inter school music competition. You have decided to invite noted classical musician, Mohan Gandhi as the judge and guest of honour. Draft a formal invitation for him in 50 words. You are Neeraj/Neetu, Cultural Secretary.

OR

As the Principal of a reputed college, you have been invited to inaugurate a Book Exhibition in your neighborhood. Draft a reply to the invitation in not more than 50 words, expressing your inability to attend the function. You are Tarun/Tanvi.

Q5. Attempt ANY ONE from A and B given below. 5M
You are Anita Ranjan, a resident of Karnataka. Write a letter to the editor of a local newspaper giving strong views on the disadvantages of setting up a chemical factory in your area and make an appeal to the central government to reconsider its decision, as it will worsen the environment of the city. Add your own ideas and write this letter in 120-150 words.

OR

You have realized the necessity of education and financial independence of women for their family, society and in turn for the nation. Write a letter to the Editor, 'The National Times' highlights your ideas on the importance of education of women leading to a better status for them. You are Tarun/Taruna, B-7/9, Mall Road, Delhi (100-125 words)

Q6. Attempt ANY ONE from A and B given below. 5M

You are Anurag/Anjali, a reporter with a national daily. You have heard that a multi storey building near the main railway station has collapsed causing panic in the area. You rush to the site of the accident along with your team. Write a report in 125-150 words mentioning the time and place of the accident, number of casualties, the cause of the accident and the rescue operation conducted by the authorities.

OR

There is a vast pool of women talent in our country. Given encouragement and opportunities, women can excel in every field. They are contributing to the nation's progress as scientists, doctors, entrepreneurs, sports persons, etc. There is no limit to what they can achieve. Write an article in 120-150 words on "Women Empowerment". You are Ramesh/Roma.

SECTION C- LITERATURE   40M

Q7. Read the given extracts to attempt the questions with reference to context. Attempt ANY ONE of two extracts given. 1x6=6M

1. A "No, I couldn't think of it!" he said, looking quite alarmed. He thought of the thirty kronor. To go up to the manor house would be like throwing himself voluntarily into the lion's den. He only wanted a chance to sleep here in the forge and then sneak away as inconspicuously as possible.

i. Who is thinking about the thirty kronor?

ii. Which figure of speech has been used by the author in the phrase "Lion's den"?
(a) Personification
(b) Metaphor
(c) Simile
(d) Allusion

iii. What does the word 'inconspicuous' mean here?

iv. The above passage is taken from
(a) The Rattrap
(b) The Enemy
(c) The Last Lesson
(d) Deep Water
v. Why was he alarmed?
vi. Who is the author of the given extract?

Gandhi told Shukla he had an appointment in Cawnpore and was also committed to go to other parts of India. Shukla accompanied him everywhere. Then Gandhi returned to his ashram. For weeks he never left Gandhi's side.

"Fix a date," he begged.

Impressed by the sharecroppers tenacity and story Gandhi said, "I have to be in Calcutta on such-and such a date. Come and meet me and take me from there".

i. Who was Shukla?

ii. Why was Shukla following Gandhi ji?
(a) Because he wanted to get ideas to become famous.
(b) Because he wanted to learn from him the art of speaking.
(c) Because he wanted to seek his guidance for his own upliftment.
(d) Because he wanted to seek his help for the poor sharecroppers of his village.

iii. Which quality of Shukla impressed and convinced Gandhi to come with him?
(a) His stubbornness
(b) His perseverance
(c) His arrogance
(d) His indecisiveness
iv. The author of this chapter is
v. What kind of person was Shukla?
vi. What is the meaning of the word 'tenacity'?

Q8. Attempt ANY ONE of two extracts given. 1x4=4M

One day the boss closed down the Story Department and this was perhaps the only instance in all human history where a lawyer lost his job because the poets were asked to go home.
A) Name the chapter and the author.
B) Whom did the story Department comprise of?
C) What happened when it was closed down?
D) What was strange about the lawyer losing his job?

OR

But that's the reason, he said, and my friends all agreed. Everything points to it, they claimed. My stamp collecting, for example; that's a 'temporary refuge from reality: Well, maybe, but my grandfather didn't need any refuge from reality; things were pretty nice and peaceful in his day, from all I hear, and he started my collection. It's a nice collection too, blocks of four of practically every U.S. issue, first-day covers, and so on. President Roosevelt collected stamps too, you know.

i. Choose the option which is the correct meaning of the word 'refuge'.
1. sanctum
2. exposures
3. peril
4. haven
5. retreat
6. security

(a) 1, 2, 3, 4   (b) 1, 4, 5, 6
(c) 2, 3 and 4   (d) 2, 4, 5, 6

ii. How would you describe Charley's vision of his grandfather's life and times?
(a) Wistful escapism   (b) Idealized sentimentality
(c) Nostalgic simplicity   (d) Dreamy perfection

iii. What does the narrator use as a temporary refuge?

iv. What all was there in narrator's collection?

Q9. Attempt ANY ONE of two extracts given. 1x6=6M

Perhaps the Earth can teach us
as when everything seems dead
and later proves to be alive.
Now count up to twelve
and you keep quiet and I will go.

i. According to the above extract, Man needs to learn from
(a) death
(b) earth
(c) stars
(d) moon

ii. Why does the poet count up to twelve?
(a) To recall the numbers   (b) To take time to calm down
(c) To calculate the twelve hours   (d) To memories the events of the last twelve days.

iii. What will keeping quiet help us to achieve?
1. Monotony
2. Intelligence
3. Peace
4. Tranquility

5. Vigour
(a) 1 and 2   (b) 3 and 4
(c) 2 and 5   (d) 1 and 4

iv. This poem is written in_____.
(a) ballad form   (b) blank verse
(c) free verse   (d) the form of sonnet

v. What does the earth teach us?

vi. What is the significance of 'Keeping Quiet"?

OR

...that she was as old as she
Looked but soon
Put that thought away, and
Looked out at young trees,
Sprinting, the merry children spilling out of their homes.
i. What is the tone of the poet in the above lines?
1. Sentimental
2. Sarcastic
3. Ironical
4. Aggressive
5. Tolerant

Choose the most appropriate option.
(a) Only 1.   (b) 2 and 3
(c) 1, 4 and 5   (d) Only 3

ii. Identify the phrase from the extract that suggests the following.
The poetess realized that her mother was old now.

iii. Which phase of life is quiet happy and full of energy?
(a) The phase of life in which poet's mother lies.
(b) The phase of life in which sprinting trees lie.
(c) The phase of life in which merry children spilling out of their homes.
(d) The phase of life in which poet lies.

iv. Complete the following analogy correctly.
Poetess: frightened: children: _____.

v. On the basis of the extract, choose the correct option with reference to (1) and (2) statements given below.
1. The parting words suggest the optimism of the poetess.
2. They console the mother that she would return soon and give her a hope of survival.

(a) 1 is true but 2 is false.   (b) 2 is true but 1 is false.
(c) 2 can be inferred from 1.   (d) 2 is the reason of 1

vi. Fill in the blank with appropriate words, with reference to the extract.
The poetess noticed young children playing outside; the young trees moving rapidly in the opposite direction of the moving car. These represent energy and youth in contrast to the _____.

Q10. Answer ANY FIVE of the following in about 40-50 words each. 2x5=10M

i. When do the residents of Alsace realise how precious their language is to them?
ii. Why was the crofter so talkative and friendly with the peddler?
iii. Imagery was an effective literary device to bring out the contrast between the merry children and the mother. Comment.
iv. Why do most celebrity writers despise being interviewed?
v. Mention the hazard of working in the glass bangle industry.
vi. Why does the story of Subbu's success in the film industry reveal about the importance of loyalty, creativity and versatility in this field?

Q11. Answer ANY TWO of the following in about 40-50 words each. 2x2=4M
i. What made the chief astrologer place his finger on his nose?
ii. What extraordinary experience did Charley have when he went to the Grand Central Station?
iii. What indicates that Dr. Sadao's father was a very traditional and conventional man?

Q12. Answer ANY ONE of the following in about 120-150 words. 1x5 =5M
i. In the story, 'The Third Level' by Jack Finney, Charley is obsessed with finding the third level. In an attempt to thrash out whether this obsession is a good quality or a harmful one, Charley's wife expresses her thoughts in a diary entry.
As Louisa, Charley's wife, write this diary entry. Support your response with reference to the story.
You may begin this way:
I have been married to Charley for a few years now and I have always known him to be an intelligent man with an imaginative mind. However, his recent obsession with finding the Third Level has...
OR
ii. How did the Tiger King stand in danger of losing his Kingdom? How was he able to avert the danger?

]
Q13. Answer ANY ONE of the following in about 120-150 words. 1x5=5M

i. Moved by Anees Jung's account of the ragpicker's plight, you decide to write an article for your school magazine. In the article write the different values that society needs to inculcate to help these people loosen the grip of their pathetic circumstances. Draft the article in about 150 words.

OR

ii. In the story 'The Rattrap', both Edla and the old crofter offer the peddler hospitality, but it is Edla's treatment that changes him. State the reasons for why Edla was able to bring about a change in him.

ST. PBN PUBLIC SCHOOL
HALF YEARLY EXAMINATION
CLASS - XII
ECONOMICS (030)
SAMPLE PAPER

TIME: 3 Hours   **MM: 80**

GENERAL INSTRUCTIONS:
1. This question paper contains two sections:
   - Section A – Macro Economics
   - Section B – Indian Economic Development
2. This paper contains 20 Objective Type Questions of 1 mark each.
3. This paper contains 4 Short Answer Questions of 3 marks each to be answered in 60 to 80 words.
4. This paper contains 6 Short Answer Questions of 4 marks each to be answered in 80 to 100 words.
5. This paper contains 4 Long Answer Questions of 6 marks each to be answered in 100 to 150 words.

SECTION A: MACRO ECONOMICS			
Objective Type Questions (Q1 to Q10)			**1 x10=10**

1.	Read the following data carefully and choose the correct option from the alternatives given below:		

Particulars	Farmer	Baker
Total production	100	200
Intermediate goods used	0	50
Value added	100	—

Alternatives:

(a) 200	(b) 100	(c) 150	(d) 50

2.	Goods purchased for the satisfaction of wants are_____.

(Fill in the blank with correct answer)

(a) Consumption goods	(b) Capital goods
(c) Final goods	(d) None of thses

3.	Total addition of capital goods to the to the existing stock of capital during the given year is known as _____.

(a) Gross costs	(b) Depreciation
(c) Net investment	(d) Gross investment

4.	_____is exercised through discussions, letters, and speeches to banks.

(Fill in the blank with correct answer)

a) Moral suasion	b) Selective credit control
c) Selective credit control	d) Open market operations

5.	_____bank controls the banking and monetary structure of India.

((Fill in the blank with correct answer)

a) Reserve Bank of India	b) State Bank of India
c) Oriental Bank of Commerce	d) National Bank of India

6.	What will be the average propensity to save, when (i) C=400 and Y=1200 (ii) S=400 and Y=1200

7	Read the following statements - Assertion (A) and Reason (R). Choose one of the correct alternatives given below: Assertion (A): The monetary policy is a policy formulated by the central bank. Reason (R): The policy involves measures taken to regulate the supply of money, availability, and cost of credit in the economy. Alternatives: (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 (c) Assertion (A) is true but Reason (R) is false. (d) Assertion (A) is false but Reason (R) is true.

8	Which of the following functions is not performed by Central Bank?

(a) Lender of last resort	(b) Accepting deposits of general public
(c) Banker's Bank	(d) Currency authority

9	State any one precaution that is necessary while estimating national income by value added method.

10.	Read the given chart carefully and choose the correct option from the alternatives given below:

	a) Import	b) Export
	c) Net import	d) Net export

Short Answer Questions (Q11 to Q12)   **3 x 2 = 6**

11	Explain how the allocation of resources can be influenced in the government budget through taxes, expenditure and subsidies.
12	What is the difference between Revenue Budget and Capital Budget?
	or
	Explain how the government can use its budgetary policy in reducing the inequality of income in the country.

Short Answer Questions (Q13 to Q15)   **4 x 3 = 12**

| 13 | Read the following text carefully and explain the relevant function of the Central Bank (RBI) indicated here.

Reserve Bank of India (RBI) on Friday said it has imposed a penalty of 5.72 crore on Federal Bank for deficiencies in regulatory compliance. A penalty of 70 lakh has also been imposed on Bank of India for non-compliance with certain provisions of Know Your Customer (KYC) norms and instructions on 'compliance function in banks' issued by RBI, it said in a statement. About Federal Bank, RBI said the bank failed to ensure that no incentive (cash or non-cash) was paid to its staff engaged in insurance broking/corporate agency services by the insurance company, according to a separate statement. |
|---|---|

14	How is Real Gross Domestic Product (GDP) different from Nominal Gross Domestic Product (GDP)? Explain using a numerical example.
	OR
	Interpret the given picture on account of GDP and Welfare.
15	Explain the AD = AS approach of the theory of income determination. Use diagram. What changes take place in the economy when AD > AS?

Long Answer Questions (Q16 to Q17)   **6 x 2 = 12**

16	Show graphically the derivation of savings function from consumption function.
	OR
	Giving reasons categorise the followings into revenue expenditure and capital expenditure.
	(i) Subsidies
	(ii) Grants given to state government
	(iii) Repayment of loan
	(iv) Construction of school building
	(v) Payments of salaries to government employees
	(vi) Expenditure incurred on defence services
17	(a) Define externalities. Give an example of negative externality. What is its impact on welfare?
	(b) On the basis of the following data about an economy which constitutes of only two firms A and B. find out the value-added by firm A and firm B.

		(₹ in crores)
(i)	Sales by Firm A	300
(ii)	Purchases from Firm B by Firm A	120

	(iii)	Purchases from Firm A by Firm B	180
	(iv)	Sales by firm B	600
	(v)	Closing Stock of Firm A	60
	(vi)	Closing Stock of Firm B	105
	(vii)	Opening Stock of Firm A	75
	(viii)	Opening Stock of Firm B	135
	(ix)	Indirect taxes by both Firms	90

OR

A. Giving reasons explain how the following are treated in estimating national income:
1) Wheat grown by a farmer but used for family consumption.
2) Earnings of the shareholders from the sale of shares.
3) Services rendered by family members to each other.

B. Define the problem of double counting in the estimation of national income. Discuss two approaches to correct the problem of double counting.

SECTION B: INDIAN ECONOMIC DEVELOPMENT

Objective Type Questions (Q18 to Q 27)   **1 x 10=10**

18. Read the following statements-Assertion (A) and Reason (R). Choose one of the correct alternatives given below:

Assertion (A): New Economic Policy (NEP), 1991 was focussed on liberalization, privatization and globalization.

Reason (R): The policy was necessitated because of the crisis situation in the economy in 1991.
Alternatives:

(a) Both Assertion (A) and Reason (R) are true and Reason (R) is not the correct explanation of Assertion (A)

(b) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)
(c) Assertion (A) is false but Reason (R) is true
(d) Assertion (A) is true but Reason (R) is false

19	Read the following statements-Assertion (A) and Reason (R). Choose one of the correct alternatives given below: **Assertion (A):** Inward looking trade strategy is a policy of 'Import substitution and protection to the domestic industry through import restrictions and import duties. **Reason (R):** Outward looking trade strategy is a policy of 'export promotion' through competitive production environment in the domestic economy. **Alternatives:** (a) Both Assertion (A) and Reason (R) are true and Reason (R) is not the correct explanation of Assertion (A) (b) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A) (c) Assertion (A) is false but Reason (R) is true (d) Assertion (A) is true but Reason (R) is false

20	_____started the journal 'Sankhya'. (Fill in the blank with correct answer)

a) Dadabhai Naoroji	b) P. C. Mahalanobis
c) R.C .Desai	d) V.K.R.V. Rao

21	The motive of British Government behind de-industrialisation was: (i) To get raw material from India at cheap rate. (ii) To sell British manufactured goods in Indian market at high prices. (iii) To focus on development of agriculture . (iv) To get finished products from India at cheap rate.

a) Only (iii)	b) (i) and (ii)
c) Only (iv)	d) (i) and (iv)

22	Read the following statements carefully and choose the correct alternative from the given below. Statement 1: Diversification of crop production implies a shift from single cropping system to multi-cropping system. Statement 2: Diversification of crop production stabilises income. Alternative: a) Statement 1 is false and statement 2 is true

	b) Statement 1 is true and statement 2 is false c) Both statements 1 and 2 are false d) Both statements 1 and 2 are true
23	India entered the_____stage of demographic transition after the year 1921. (Fill in the blank with correct answer) <table><tr><td>a) Second</td><td>b) Fourth</td></tr><tr><td>c) First</td><td>d) Third</td></tr></table>
24	Milk cooperatives in India have their epicenter in the state of: (Fill in the blank with correct answer) <table><tr><td>a) Tamil Nadu</td><td>b) Gujrat</td></tr><tr><td>c) Kerala</td><td>d) West Bengal</td></tr></table>
25	National Bank for Agriculture and Rural Development (NABARD) was set up in____. (Fill in the blank with correct answer) <table><tr><td>a) 1980</td><td>b) 1981</td></tr><tr><td>c) 1982</td><td>d) 1983</td></tr></table>
26	Diversification of growth process can be achieved through the development of_____sector. (Fill in the blank with correct answer) <table><tr><td>a) Industrial</td><td>b) Agriculture</td></tr><tr><td>c) Service</td><td>d) None of theses</td></tr></table>

27	From the given set of events/systems given in Column I and corresponding relevant fact given in Column II, choose the correct pair of statement:

Column I	Column II
A. Agrarian economy	(i) An economy with about 50% of the country's population earning their living from agriculture.
B. Export surplus	(ii) During the British regime, India's imports exceeded its exports.
C. Mortality Rate	(iii) Annual number of deaths per 100 people
D. Occupational structure	(iv) Distribution of workforce as per their occupation

Alternatives:

a) A–(i)	b) B-(ii)
c) C-(iii)	d) D-(iv).

Short Answer Questions (Q28 to Q29)	**3 x 2 = 6**

28	What were the drawbacks of the licensing policy followed by the government before 1991?

OR

How are small scale industries distinguished from large scale industries?

29	It is believed by some of the economists that 'once the technology is found profitable and is widely adopted, subsidies should be phased out'. Defend or refute the above statement.

Short Answer Questions (Q30 to Q32)	**4x 3 = 12**

30	Mention any four features of small scale industries

31	What role can the government play in human capital formation in India?

OR

How is agricultural diversification helpful for farmers? Explain.

32	Elucidate the role played by the industrial sector in India.

Long Answer Questions (Q33 to Q34)   **6 x 2 = 12**

33	Critically evaluate the role of the rural banking system in the process of rural development in India. **OR** Discuss briefly, how institutional reforms (land reforms) have played a significant role in transforming Indian agriculture.
34	(a) Define agriculture marketing. (b) Discuss briefly the importance of micro credit programmes in rural development. (c) Enlist any two problems faced by farmers in the initial years of organic farming.

St. PBN PUBLIC SCHOOL
HALF YEARLY EXAMINATION
CLASS- XII
SUBJECT- ACCOUNTANCY
SAMPLE PAPER

TIME:3 HOURS   **MAX. MARKS: 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. A share of Rs. 10 each, issued at Rs. 2 premium out of which Rs. 5 (including Rs. 1 premium) was called up and paid up. The uncalled capital will be _____.

(a) Rs. 7 per share   (b) Rs. 4 per share

(c) Rs. 8 per share   (d) Rs. 6 per share   (1)

2. Pick the odd one out: (1)

(a) Rent to Partner   (b) Manager's Commission

(c) Interest on Partner's Loan   (d) Interest on Partner's Capital

3. Shares issued by a Company to its employees or directors for consideration other than cash are known _____.

                                  OR   (1)

       What are preliminary expenses?

4. Define Goodwill.

                                  OR   (1)

       Name any two factors affecting goodwill of a partnership firm.

5. **Assertion (A):** Admission of a partner does not mean dissolution of the firm but dissolution of old partnership.

Reasoning (R): Admission of a partner means reconstitution of the partnership whereby old partnership ceases to exist and new partnership comes into existence. However, the firm continues.

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

6. Name the account which is opened to credit the share of profit of the deceased partner, till the time of his death to his Capital Account.
<div align="center">**OR** (1)</div>
At what rate interest is payable on the amount remaining unpaid to the executor of deceased partner?

7. State whether the statement is True or False: (1)
    A new partner is liable for the past losses of a firm.

8. **Match the following at the time of dissolution of a partnership firm:** (1)

Column A	Column B
i. Death of the partner	(a) Compulsory Dissolution
ii. Unlawful business	(b) Happening of an event
iii. Person of unsound mind	(c) Mutual agreement
iv. Dissolution with the consent of the partners	(d) Dissolution by court

9. At the time of admission of new partner, creditors overvalued are _____to revaluation account. (1)

10. If a fixed amount is withdrawn on the first day of every quarter, for what period the interest on total drawings will be calculated.
<div align="center">**OR** (1)</div>
In case of fluctuating capitals, where will you record drawings and interest on drawings?

11. **Assertion (A):** Value of goodwill is subjective and not an exact value under any method.
Reasoning (R): Value of goodwill is subjective because it is based on estimates as to number of year purchase or rate of return on capital employed. (1)
(a) Both A and R are true but R is not the correct explanation of A
(b) Both A and R are true, and R is the correct explanation of A.
(c) Both A and R are false.
(d) A is false, but R is true.

        Read the following hypothetical situation, Answer Question No. 12 and 13
Amar, Binod and Chaman are in trading business of Jute and Jute products. They have been sharing profits in the ratio 3:2:1. Chaman being a working partner demanded that he should be paid annual salary of Rs. 75,000. The

partners did not agree to salary demanded by Chaman but agreed to give him minimum guaranteed profit of Rs. 60,000. Their capitals as on 1st April, 2020 were Rs. 5,00,000, Rs. 4,00,000 and Rs. 3,00,000 respectively. Profit for the year ended on 31st March, 2021 was Rs. 3,00,000.

12. What will be partners' profit share if Chaman's share of profit is guaranteed at Rs. 60,000?
(a) Rs. 1,50,000, Rs. 90,000, Rs. 60,000
(b) Rs. 1,90,000, Rs. 50,000, Rs. 60,000
(c) Rs. 1,60,000, Rs. 80,000, Rs. 60,000
(d) Rs. 1,44,000, Rs. 96,000, Rs. 60,000 (1)

13. What will be partners' profit share if deficiency in Chaman's profit share is to be borne by Amar and Binod in the ratio of 4:1?
(a) Rs. 1,50,000, Rs. 90,000, Rs. 60,000
(b) Rs. 1,42,000, Rs. 98,000, Rs. 60,000
(c) Rs. 1,44,000, Rs. 96,000, Rs. 60,000
(d) Rs. 1,20,000 Rs. 1,20,000, Rs. 60,000 (1)

14. How is dissolution of partnership different from dissolution of partnership firm?
OR (1)
State whether the statements is True or False:
    A partner can retire from the firm with the consent of all the other partners only.

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

Column A	Column B
(i) Partnership deed	(a) 50
(ii) Maximum number of partners	(b) 6% p.a.
(iii) Interest on partner's loan	(c) a statement
(iv) Balance Sheet	(d) written agreement

16. **Assertion (A):** Forfeited shares may be reissued by the company at a discount also.
Reason (R): Amount of discount on reissue of forfeited shares cannot exceed the amount forfeited on reissued shares.
(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) Only R is correct.
(d) Both A and R are wrong.
OR (1)

_____ shareholders are given dividend at a fixed rate.

17. At the time of dissolution of partnership firm, fictitious assets are transferred to: (1)
(a) Capital Accounts of Partners   (b) Realisation Account
(c) Cash Account   (d) Partner's Loan Account

18. A, B and C are equal partners in a firm. B retires and the remaining partners decide to share the profits of the new firm in the ratio of 5:4. Gaining ratio will be: (1)
(a) 1:1   (b) 1:2
(c) 2:1   (d) 5:4

19. Why are assets and liabilities revalued at the time of retirement of a partner?
<center>**OR**</center> (1)
Give any one distinction between sacrificing ratio and gaining ratio.

20. X, Y and Z are partners in the ratio of 5 : 4 : 3. In the firm X has guaranteed Z for his minimum profit of Rs. 10,000. Firm's profit was Rs. 28,800. In the firm profit X's share will be:
(a) Rs. 9,200   (b) Rs. 9,600
(c) Rs. 7,200   (d) Rs. 12,000 (1)

21. A and B have been carrying on business in partnership with fixed capitals of Rs. 2,40,000 and Rs. 1,20,000 respectively and sharing profits in the same proportion. They decided that with effect from April 1, 2021 they would share profits and losses in the ratio of 3:2. For this purpose goodwill is to be valued at three year's purchase of the average of preceding three year's profits. The profits for the years ending 31st March were 2018 : Rs. 75,000; 2019 : Rs. 60,000 ; 2020 Rs. 80,000 and 2021 Rs. 1,30,000. Give the necessary journal entry.
<center>**OR**</center> (3)
P, Q, and R are partners sharing profits and losses in the ratio of 5:3:2. From 1st April, 2021, they decide to share profits and losses in equal proportions. The partnership deed provides that in the event of any change in profit sharing ratio, the goodwill should be valued at three year's purchase of the average of five year's profits. The profits and losses of the preceding five years ending 31st March are:

Profits: 2017: Rs. 60,000, 2018: Rs. 1,50,000, 2019: Rs. 1,70,000, 2020: Rs. 1,90,000.

Loss: 2021: Rs. 70,000.

Give the necessary journal entry to record the above change.

22. On 1-4-2020, Brij and Nandan entered into partnership to construct toilets in government girls schools in the remote areas of Uttarakhand. They contributed capitals of Rs. 10,00,000 and Rs. 15,00,000 respectively. Their profit sharing ratio was 2 : 3 and interest allowed on capital as provided in the partnership deed was 12% per annum. During the year ended 31.3.2021, the firm earned a profit of Rs. 2,00,000.

       Prepare Profit and Loss Appropriation Account of Brij and Nandan for the year ended 31.3.2021. (3)

23. Sico Ltd. took over the assets of Rs. 4,80,000 and liabilities of Rs. 80,000 of Mittal Ltd. for a consideration of Rs. 3,20,000. Rs. 20,000 were paid by an acceptance in favour of Mittal Ltd. payable after 3 months and the balance by issue of fully paid 8% preference shares of Rs. 100 each at a premium of 50%. Pass the necessary journal entries for the above transactions in the books of Sico Ltd. (3)

24. A, B and C are partners in a firm sharing profits and losses in the ratio of 5:3:2. They admitted D as new partner, who brings Rs. 5,00,000 as capital and Rs. 2,10,000 as his share in Goodwill in cash. A surrendered 1/5th of his share, B surrendered 1/6th of his share and C surrendered 1/8th of his share in favour of D.

  Find out Sacrifice Ratio and Pass necessary journal entries for the above. (3)

25. A, B and C were partners in a firm sharing profits and losses in the 2:2:1. Books were closed on 31st March every year. B died on 1st August, 2021. As per the partnership deed B's executors are entitled to his share of profit till the date of death on the basis of Sales turnover. Sales for the year ended 31st March 2021 was Rs. 4,00,000 and profit for the same year was Rs. 80,000. Sales shows a growth trend of 25% and percentage of profit earning is increased by 4%. Journalise the transaction along with the working notes.

<div align="center">OR</div> (3)

    The firm of R, K and S was dissolved on 31.3.2019. Pass necessary journal entries for the following after various assets (other than cash and Bank) and the third party liabilities had been transferred to realisation account.

    (i) K agreed to pay off his wife's loan of Rs. 6,000.

    (ii) Total Creditors of the firm were Rs. 40,000. Creditors worth Rs.10,000 were given a piece of furniture costing Rs. 8,000 in full and final settlement. Remaining creditors allowed a discount of 10%.

    (iii) A machine that was not recorded in the books was taken over by K at Rs. 3,000 whereas its expected value was Rs. 5,000.

26. Vikas and Vivek were partners in a firm sharing profits in the ratio of 3 : 2. On 1-4-2014 they admit Vandana as a new partner for 1/8th share in the profits with a guaranteed profit of Rs. 1,50,000. The new profit sharing ratio between Vikas and Vivek will remain the same but they decided to bear any deficiency on account of guarantee to Vandana in the ratio 2:3. The profit of the firm for the year ended 31-3-2015 was Rs. 9,00,000. Prepare Profit and Loss Appropriation Account of Vikas, Vivek and Vandana for the year ended 31-3-2015. (3)

27. Shanker, Babita and Vishal are partners in a firm in the ratio of 5:4:2. On 1st April, 2019 they decided to share profits in future in the ratio of 4:3:2. On this date general reserve was Rs. 34,900 and loss on revaluation of assets and liabilities was Rs. 5,200. It was decided that adjustment should be made without altering the figures of assets and liabilities in the Balance Sheet. Make adjustment by a single journal entry. (4)

28. ABC Ltd. was formed with an authorised capital of Rs. 8,00,00,000 divided into 50,00,000 equity shares of Rs. 10 each and 3,00,000, 9% Preference shares of Rs. 100 each. The company issued 16,00,000 equity shares for public subscription at 20% premium, payable Rs. 3 on application; Rs. 7 on allotment (including premium) and balance on call. The company received applications for 20,00,000 shares. Excess Applications were sent letters of regret.

All the dues on allotment received except on 30,000 shares held by S. Another shareholder R paid his call dues along with allotment on his holding of 50,000 shares.
(a) Present the share capital in the Balance Sheet of the company as per schedule III, Part I of the Companies Act, 2013.
(b) Also prepare 'Note to Accounts' for the same.
<center>**OR**</center> (4)
Mohan, Girdhari and Shyam were partners in a firm sharing profits and losses in the ratio of 4:3: 2. On 31st March, 2022, Girdhari retired. After making all adjustments on account of reserves, revaluation of assets and reassessment of liabilities, the balance in Girdhari's Capital Account stood at Rs. 5,00,000. Mohan and Shyam agreed to pay Girdhari Rs. 5,90,000 in full settlement of his claim.
   Calculate the value of goodwill of the firm and pass the necessary journal entry for the treatment of goodwill on Girdhari's retirement without raising goodwill account.

29. X and Y are partners. They decided to dissolve their firm. Pass necessary entries assuming that various assets and external liabilities have been transferred to Realisation Account:
(i) X's loan was appearing on the liabilities side of Balance sheet at Rs. 40,000. He accepted an unrecorded asset of Rs. 60,000 in full settlement of his account.

(ii) Raman, a Creditor to whom Rs. 25,000 were due to be paid, accepted an unrecorded computer of Rs. 18,000 at a discount of 10% and the balance was paid to him in Cash.

(iii) Sudhir, an unrecorded creditor of Rs. 40,000 accepted an unrecorded vehicle of Rs. 20,000 at Rs. 25,000 and the balance was paid to him in Cash.

(iv) There was a Contingent liability in respect of bill discounted but not matured Rs. 20,000. (4)

30. Michael, Jackson and John were partners in a firm sharing profits in the ratio of 3 : 1 : 1. On 31ˢᵗ March, 2017, they decided to dissolve their firm. On that date their Balance Sheet was as follows:

Balance Sheet of Michael, Jackson and John
as at 31.03.2017

Liabilities		Rs.	Assets	Rs.
Creditors		11,500	Bank	6,000
Loan		3,500	Debtors 48,400	
Capitals:			Less: Prov. 2,400	46,000
Michael	50,000		Stock	16,000
Jackson	25,000		Furniture	2,000
John	14,000	89,000	Sundry Assets	34,000
		1,04,000		1,04,000

It was agreed that:

i)   Michael was to take over Furniture at Rs. 2,600 and Debtors amounting to Rs. 40,000 at Rs. 34,400 and the Creditors of Rs. 10,000 were to be paid by him at this figure.

ii) Jackson was to take over all the stock in trade at Rs. 14,000 and some of the other Sundry Assets at Rs. 28,800 (Being 10% less than book value).

iii) John was to take over the remaining Sundry Assets at 90% of the book value and assumed the responsibility for the discharge of the loan.

iv) The remaining debtors were sold to a debt collecting agency for 50% of the book value. The expenses of dissolution Rs. 600 were paid by John.

Prepare Realisation Account and Partners' Capital Accounts. (6)

31. The partners of a firm distributed the profits for the year ended 31st March 2021, Rs. 1,50,000 in the ratio of 2 : 2 : 1 without providing for the following adjustments:

(i) A and B were entitled to a salary of Rs. 1,500 per quarter.

(ii) C was entitled to a commission of Rs. 18,000.

(iii) A and C had guaranteed a minimum profit of Rs. 50,000 p.a. to B.

(iv) Profits were to be shared in the ratio of 3 : 3 : 2.

     Pass necessary journal entry for the above adjustments in the books of the firm.   (6)

32. A, B and C were partners in a firm sharing profit in the ratio of 3:2:1. On 31-3-2015 their Balance Sheet was as follows:

Balance Sheet of A, B and C
as at 31-3-2015

Liabilities	Amount (Rs)		Assets	Amount (Rs)
Creditors		84,000	Bank	17,000
General Reserve		21,000	Debtors	23,000
Capitals:			Stock	1,10,000
A	60,000		Investments	30,000
B	40,000		Furniture & Fittings	10,000
C	20,000	1,20,000	Machinery	35,000
		2,25,000		2,25,000

On the above date D was admitted as a new partner and it was decided that:

a) The new profit sharing ratio between A, B, C and D will be 2:2:1:1.

b) Goodwill of the firm was valued at Rs 90,000 and D brought his share of goodwill premium in cash.

c) The market value of investments was Rs 24,000.

d) Machinery will be reduced to Rs 29,000.

e) A creditor of Rs 3,000 was not likely to claim the amount and hence to be written-off.

f) D will bring proportionate capital so as to give him 1/6th share in the profits of the firm.

Prepare Revaluation Account, Partner's Capital Accounts and the Balance Sheet of the reconstituted firm.

OR   (6)

A, B and C were equal partners. Their Balance Sheet as at 31st March, 2022 was as under:

Balance Sheet
As at 31st March, 2022

Liabilities	Rs.	Assets	Rs.
Bills Payable	20,000	Bank	20,000
Creditors	40,000	Stock	20,000

General Reserve	30,000	Furniture	28,000
Profit & Loss A/c	6,000	Debtors 45,000	
Capital A/cs:		Less; Prov. For	
A 60,000		Doubtful debts 5,000	40,000
B 40,000		Land & building	1,20,000
C 32,000	1,32,000		
	2,28,000		2,28,000

      B retired on 1st April, 2022. A and C decided to continue the business sharing profits in the ratio of 3:2 on the following terms:
  i. Goodwill of the firm was valued at Rs.57,600.
 ii. The provision for doubtful Debts to be maintained @ 10% on debtors.
 iii. Land and Building to be increased to Rs.1,32,000.
 iv. Furniture to be reduced by Rs.8,000.
  v. Rent outstanding (not provided for as yet) was Rs.1,500.
      The remaining partners decided to bring sufficient cash in the business to pay off B and to maintain a bank balance of Rs.24,800. They also decided to readjust their capitals as per their new profit sharing ratio.
Prepare necessary Ledger Accounts and the Balance sheet.

33. Gaganyan Ltd. Invited applications for issuing 3,20,000 equity shares of ₹10 each at a premium of ₹ 5 per share. The amount was payable as follows:
On application ₹ 3 per share (including ₹ 1 premium)
On allotment ₹ 5 per share (including ₹ 2 premium)
Balance on first and final call
    Application for 4,00,000 shares were received. Applications for 40,000 shares were rejected and application money refunded. Shares were allotted on pro-rata basis to the remaining applicants. Excess money received with applications were adjusted towards sums due on allotment. Divya holding 800 shares failed to pay the allotment money and her shares were immediately forfeited. Afterwards final call was made. Prisha who had applied for 2,700 shares failed to pay the final call. Her shares were also forfeited. Out of the forfeited shares 1,500 shares were re-issued at ₹ 9 per share fully paid up. The re-issued shares included all the forfeited shares of Divya.
On the basis of the above information, you are required to answer the following questions:
  (a) What will be the amount received on allotment in cash?
  (b) What will be the amount credited to share forfeiture A/c in the entry of forfeiture of Divya's shares.
  (c) What will be the amount credited to share forfeiture A/c in the entry of forfeiture of Prisha's shares.

(d) What will be the amount transferred to Capital Reserve A/c after the reissue of forfeited shares.

OR (6)

Khyati Ltd. issued a prospectus inviting applications for 80,000 equity shares of Rs. 10 each payable as follows:

Rs.2 on application   Rs.3 on allotment
Rs.2 on first call   Rs.3 on final call

Applications were received for 1,20,000 equity shares. It was decided to adjust
the excess amount received on account of over subscription till allotment only.

Hence allotment was made as under:
(i) To applicants for 20,000 shares – in full
(ii) To applicants for 40,000 shares – 10,000 shares
(iii) To applicants for 60,000 shares – 50,000 shares

Allotment was made and all shareholders except Tammana, who had applied for 2,400 shares out of the group (iii), could not pay allotment money. Her shares were forfeited immediately, after allotment. Another shareholder Chaya, who was allotted 500 shares out of group (ii), failed to pay first call. 50% of Tamanna's shares were reissued to Satnaam as Rs. 7 paid up for payment of Rs. 9 per share.

Pass necessary journal entries in the books of Khyati Ltd. for the above transactions by opening calls in arrears and calls in advance account wherever necessary.

34. Dinesh, Alvin and Pramod are partners in a firm sharing profits and losses in the ratio of 5:3:2. Their Balance Sheet as at March 31, 2018 was as follows: -

Balance Sheet of Dinesh, Alvin and Pramod
as at 31st March, 2018

Liabilities		Rs.	Assets	Rs.
Sundry Creditors		50,000	Debtors	15,000
General Reserve		40,000	Fixed Assets	67,000
Bills Payable		10,000	Investments	40,000
Capitals:			Stock	25,500
Dinesh	30,000		Cash in Hand	36,000
Alvin	40,000		Deferred Revenue	14,000
Pramod	30,000	1,00,000	Expenditure	
			Dinesh's Loan A/c	2,500
		2,00,000		2,00,000

Dinesh died on July 1, 2018, The executors of Dinesh are entitled to:-
i. His share of goodwill. The total goodwill of the firm valued at Rs. 50,000.

ii. His share of profit up to his date of death on the basis of actual sales till date of death. Sales for the year ended March 31, 2018 was Rs. 12,00,000 and profit for the same year was Rs. 2,00,000. Sales shows a growth trend of 20% and percentage of profit earning remains the same.

iii. Investments were sold at par. Half of the amount due to Dinesh was paid to his executors and for the balance, they accepted a Bills Payable.

Prepare Dinesh's Capital account and Dinesh's executors account.   (6)

ST. PBN PUBLIC SCHOOL
HALF YEARLY EXAMINATION
CLASS -XII
PHYSICAL EDUCATION
SAMPLE PAPER

Time: 3 Hours **MM: 70**

GENERAL INSTRUCTIONS:

1. **The question paper consists of 5 sections and 37 Questions.**

2. **Section A consists of questions 1-18 carrying 1 mark each and are multiple choice questions. All questions are compulsory.**

3. **Sections B consists of questions 19-24 carrying 2 marks each and are very short answer types and should not exceed 60-90 words. Attempt any 5.**

4. **Sections C consists of questions 25-30 carrying 3 marks each and are short answer types and should not exceed 100-150 words. Attempt any 5.**

5. **Sections D consists of questions 31-33 carrying 4 marks each and are case studies. There is internal choice available.**

6. **Section E consists of question 34-37 carrying 5 marks each and are long answer types and should not exceed 200-300 words. Attempt any 3.**

SECTION A

1. Logistics committee deals with:

(a) Accommodation (c) Medical Staff

(b) Transportation (d) All of the above

2. The total number of matches in a knockout tournament of 34 teams are:

(a) 31 (c) 33

(b) 32 (d) 35

3. Posture is an index of:

(a) Personality (c) Character

(b) Health (d) Fitness

4. Makarasana is beneficial for:

(a) Diabetes (c) Obesity

(b) Hypertension (d) None of these

5. The normal adult person should have a blood pressure:

(a) 80/120 (c) 100/140

(b) 60/130 (d) 40/120

6. How many countries are involved in the Special Olympic Association ?

(a)204   (c)104

(b)200   (d)172

7. Lordosis is a problem of the

(a) Lower back   (c) Upper back

(b) Middle back   (d) Shoulders

8. Bhujangasana is also called as:

(a) Cobra pose   (c) Peacock pose

(b) Tiger pose   (d) Cow pose

9. The founder of Special Olympics was:

(a) Eunice Kemmedy Shriver   (c) Lyndom B. Johnson

(b) John F. Trumph   (d) Donald Trumph

10. Sugar, sweets and bread are rich sources of

(a) Carbohydrates   (c) Proteins

(b) Fats   (d) Roughage

11. Push ups(Boys) measure:

(a) upper body strength and endurance   (c) Both (a) as well as (b)

(b) Trunk stability   (d) None of these.

12. 50m standing start helps in measuring:

(a) Balance   (c) Endurance

(b) Speed   (d) Agility

13. Which test is to be conducted to measure agility?

(a) Standing board jump   (c) Partial curl up

(b) 4X10 shuttle run   (d) Push ups

14. Vital capacity depends upon

(a) Lung size   (c) chest cavity size

(b) strength of respiratory muscles   (d) all of these.

15. A bone fracture is an example of injury to

(a) skin   (c) Hard tissue

(b) soft tissue   (d) Eyes

16. Overstretching of ligaments causes:

(a) Sprain   (c) Contusion

(b) Strain   (d) Bruises

17. Given below are the two statements labeled Assertion (A) and Reason (R)

Assertion(A): Planning is the foremost function in sports.

Reason (R): Planning gives a view of future course of action.

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

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

(b) Both (A) and (R) are true and (R) is not correct explanation of (A).

(c) (A) is true but (R) is false.

(d) (A) is false but (R) is true.

18. Given below are the two statements labeled Assertion (A) and Reason (R)

Assertion(A): Balance diet is the diet which contains all the essentials nutrients in adequate quantity and proportion.

Reason (R): Requirement of food depends upon age, type of work ,etc.

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

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

(b) Both (A) and (R) are true and (R) is not correct explanation of (A).

(c) (A) is true but (R) is false.

(d) (A) is false but (R) is true.

SECTION B

19. Explain about knockout tournament with an example.
20. Briefly explain about vitamins.
21. Explain about asthma.
22. Discuss about cognitive disability.
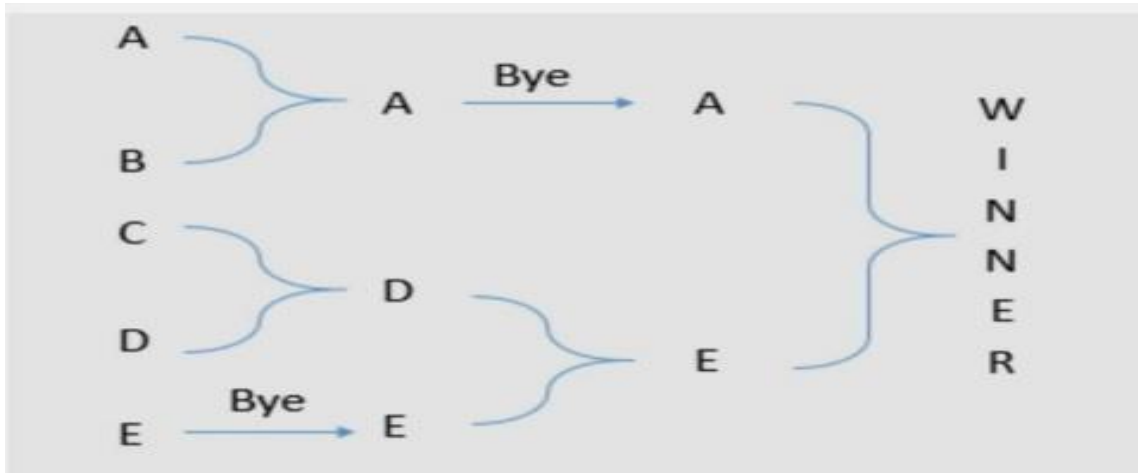23. Briefly discuss flatfoot.
24. Explain 600m Run/Walk in brief.

SECTION C

25. Draw a fixture of 13 teams on knock-out basis.
26. Describe any two of the female triad.
27. Discuss the contraindications of Dhanurasana.
28. Write a detailed note on macro-nutrients in our diet?
29. Briefly mention the benefits of Tadasana.
30. Explain the procedure of Chair sit-and-Reach Test.

SECTION D

31. Case based question:

Competing in physical activities has been the natural tendency of humans. The competitions or tournaments are held according to the set rules and regulations. The success of the tournament depends upon suitable fixture. Observe the below given fixture and answer the questions.

(i). The method followed in drawing the fixture is _____

(ii).Number of matches played can be calculated by the formula _____

(iii). The advantage of this tournament is _____

(iv). In this type of tournament, a team once defeated gets

32. Case based question:

ABC School is one of the reputed schools in their location for the number of sports facilities it provides to its stake holders. Keeping that in consideration CBSE Sports cell has given them the responsibility of conducting CBSE Football cluster. 35 teams have sent their entry for participation in the tournament.

    (i). Due to large number of teams willing to participate, the school is conducting the competition by _____ fixture.

    (ii).The number of Matches in the first round will be_____

    (iii). Total number of rounds will be_____

    (iv). Total number of matches will be_____

33. Case based question:

Mr. Lakshman, aged 65 years worked as a civil engineer in a construction company. He had to walk and climb a lot as part of his job. After retirement, he settled with his son spending time with his grandchildren. Now a days he is experiencing difficulty in doing certain chores which involves physical movement.

    (i). How many series of tests are there in the prescribed fitness test for Mr. Lakshman?

    (ii).Chair sit & reach test is done to check........

    (iii).The 8 foot up &go test, as shown in the picture is performed to assess _____

    (iv).Which test would you recommend to check Mr. Lakshman's fitness?

SECTION E

34. Write about the various committees and their responsibilities.

35. What do you mean by Back pain? Discuss the procedure and benefits of Shalabhasana.

36. Discuss the advantages of physical activities for children with special needs in detail.

37. Explain the physiological factors determining speed.