

St. PBN PUBLIC SCHOOL
HALF YEARLY EXAMINATION
CLASS-XI
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 Reward for profession is called: 1

a) Profit	b) Fees
c) Salary	d) All of the above

- 2 Application for approval of name of a company is to be made to: 1

a) SEBI	b) Registrar of Companies
c) Government of India	d) Government of state in which company is to be registered

- 3 Which banking service permits withdrawal of money more than the balance in the account? 1

a) Saving Account	b) Banker's Cheque
c) Bank Overdraft	d) Fixed Deposit Account

- 4 Which of the following is known as contract of assurance? 1

a) Marine Insurance	b) Life Insurance
c) Health Insurance	d) Fire Insurance

- 5 _____ was set up by the World Association for Small and Medium Enterprises (WASME) and sponsored by NABARD. 1

(a) Rural and Women Entrepreneurship Development	(b) The National Commission for Enterprises in the Unorganized Sector
(c) Small Industries Development Bank of India	(d) The Rural Small Business Development Centre

- 6 Business is responsible to provide accurate and complete information about financial position of the company. This responsibility of business is towards its: 1

a) Consumers	b) Workers
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c) Investors	d) Community
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7 What is entrepot trade? 1

a) Goods imported to be exported to other nations	b) Goods produced to be exported to other nations
c) Goods produced to be imported	d) Goods produced specially for internal trade

8 The structure in which there is separation of ownership and management is called: 1

a) Sole Proprietorship	b) Partnership
c) Joint Stock Company	d) All business organisation

Read the following statements (Q 9 and Q 10)-Assertion (A) and Reason (R). Choose one of the correct alternatives given below: 1

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 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.

9 **Assertion (A):** Global Enterprises significantly influence the international economy. 1

Reason (R): Global enterprises are huge in size, deal in large number of products and use advanced technology and have network of operations all over the world.

10 **Assertion (A):** Warehousing facilitates the availability of goods as and when required. 1

Reason (R): Warehousing removes this hindrance of place by providing facility of storage of goods.

11 Which bank is the apex bank of India? 1

a) ICICI	b) RBI
c) HDFC	d) PNB

12 Startup India Scheme was announced on: 1

a) 26 th January, 2015	b) 15 th August, 2015
c) 8 th November, 2016	d) None of the above

13 Ethics are related with the fields of: 1

(a) Medical	(b) Law
(c) Business	(d) All of the above

1

14 When was the 'Make in India' project launched?

a) 15 th August, 2014	b) 2 nd October, 2014
c) 25 th September, 2014	d) 8 th November, 2016

1

15 In the absence of Articles of Association, _____ applies.

a) Table F	b) Table B
c) Table C	d) Table D

1

16 Fees charged by an insurance company is known as:

a) Fee	b) Profit
c) Premium	d) Installment

1

17 Investment limit in plant and machinery or equipment for micro enterprise is:

a) ₹1crore	b) ₹ 25 lac.
c) ₹1 lac.	d) ₹10 lac.

1

18 'These are socially determined moral principles which govern business activities.' Identify the concept.

a) Social responsibility	b) Business ethics
c) Social skills	d) None of the above

1

19 Primary industry engaged in the activity of breeding and reproducing plants and animals is known as:

a) Extractive Industry	b) Processing Industry
c) Genetic Industry	d) Analytical Industry

1

20 If 'Karta' dies, then:

a) Joint Hindu Family business comes to end	b) Remaining members elect new 'Karta'
c) Next senior most member becomes 'Karta'	d) The business continue without any 'Karta'

21 "Risk is an essential element of business". Do you agree? Elaborate the statement with proper reason.

3

22 Pulkit and Aryan are manufacturing leather belts and wallets. Both of them share profits and losses in the ratio of 3:2. Pulkit has invested a capital of ₹ 10 lac, while Aryan has invested ₹77 lac in the business.

3

- Identify the form of business organisation in which both have promoted their business. Also, state any two features of this form of business organisation.

OR

Nikki and her friend Suhana decide to open a partnership firm for their business. Suhana informs Nikki that they need to get their firm registered as a legal formality, but Nikki refuses by saying that it is not mandatory.

- However, Suhana is determined to get it done. Who do you think is right regarding the registration? Why?
- 23 "Government of India has contracted with a private sector company to construct a bridge on a river and to collect toll tax from vehicles passing through the bridge." 3
- Mention the type of contractual agreement made between the government and the private company and write any two features of the same.
- 24 Identify the types of public sector undertakings in the following situations: 3
- (a) Business enterprise established by the government and controlled by the Ministry concerned.
- (b) Enterprise incorporated under a special Act of Parliament or State Legislature.
- (c) Enterprise managed by the government and subject to strict budgetary, accounting and audit control.
- (d) Enterprise established by the government and registered under the Companies Act.
- OR**
- 25 Explain any three principles of Insurance with example. 4
- Discuss the problems faced by small-scale industries.
- OR**
- Perfect Bamboo Factory is a premier bamboo furniture provider owned by Arnav Shekhar. He has set up his new factory at Kashipur, a small town in Uttarakhand for manufacturing quality furniture from bamboo for every room size. Arnav Shekhar purchased automated machinery for his new factory and employed people from the nearby villages to work in his factory. Arnav Shekhar ensured that proper sanitation and cleanliness is being maintained in the factory.
- Based on the given information about Arnav Shekhar, answer the following questions -
- (a) Identify and explain the role played by small business in rural India.
- (b) Name the various kinds of social responsibilities of business by quoting the lines from the above paragraph.
- 26 What do you mean by business ethics? State the various elements of business ethics. 4
- OR**
- Discuss the various steps which should be taken by business enterprises for environmental protection.
- 27 Dr. Rakesh Chauhan is an Orthopedic surgeon who has set his own clinic in Jaipur and his friend Jitender Patel is an IAS officer. Mr. Jitender Patel's wife operates a retail store specializing in the selling of antiques. 4
- Based on the given information about different economic activities, undertaken by Dr. Rakesh Chauhan, Mr. Jitender Patel, and Mrs. Jitender Shreya Patel, differentiate between them on basis of nature, capital investment, transfer of interest and reward.

- 28 "Every day Amul collects milk from 2.12 million farmers (many illiterate) and converts the milk into branded packaged products and delivers goods all over the country. The story of Amul started in December 1946 with a group of farmers keen to free themselves from intermediaries, gain access to the market and thereby ensure maximum returns for their efforts. 4
- (a) From the above description, identify and state the form of business organisation used by Amul.
(b) State any two features of this form of business organisation.
(c) Identify and state which type of industry does Amul belong to?
- 29 Gas Authority of India Ltd., (GAIL) is carrying on various projects of energy and power. Majority of its shares are held by the government of India. It was registered under the provisions of the Companies Act. It enjoys all the characteristics of a company. The board of directors are appointed by the government. The Board and shareholders are responsible for the efficient working of the company. The company prepares its annual report and submits it to the appropriate authorities. 4
- (a) Name the type of public sector enterprise referred to in the above para.
(b) In whose name does the government buy shares?
(c) State any two features of the type of public sector enterprise identified in part (a) other than those discussed in the above para.
- 30 Chirag got his pen manufacturing factory insured against fire. His factory caught fire and some of his employees took advantage of the situation and stole stock of pens. Chirag made a claim of damages caused by fire including loss due to pens being stolen. The insurance company agreed to pay damages caused by fire only. It refused to pay for loss caused by stolen pens on the ground that loss by theft was a remote cause and not proximate one. However, Insurance company is liable to pay for the damages caused by fire as it is a proximate cause and insured as well. 4
- (a) What does principle of Causa Proxima state?
(b) Give the names and nature of two causes resulting in losses for Mr. Chirag.
- 31 Yuvraj wants to start a business unit manufacturing Khadhi items. His friend who makes craft items, suggests him to start a small-scale industrial unit in some rural, backward area since the government is offering various incentives to small-scale industries. 3+3=6
- (a) State any three incentives offered by the government for small-scale industries.
(b) Name and explain two institutions set up by the government of India to promote small-scale industries in rural India. Explain their role.
- OR**
- "Business is essentially a social institution and not merely a profit-making activity." Considering this statement, explain social responsibility of the business towards:
- (a) Shareholders
(b) Employees
(c) Society and community 2+2+2=6

- 32 Dr Sanjay Sinha is working on the post of senior doctor in a government hospital. He does not discriminate between rich and poor while treating his patients medically. When he returns home from the hospital, he attends to the poor patient at home free of cost between 6 pm to 8 pm. Besides, he gives them the information about the employment opportunities. He advises many young people to go into the fields of advertising and transportation. They went into these fields and remarkably succeeded there. 2+2+2=6

(a) Name and explain the type of activities Dr. Sanjay Sinha performs in the hospital and at home.

(b) Explain the auxiliaries to trade mentioned in the above para.

(c) Explain the auxiliaries to trade to solve the problem of hindrance of risk and hindrance of time.

OR

Candice wants to start a retail business of cosmetics and jewelry items. Change in taste and preferences of customers may result in loss in such type of business. She is hesitating as she is aware of risks which are inherent in every business. She approaches her friend Kary who is the owner of a retail shop. Kary advises her to go ahead with her idea as she will get profit as return for undertaking risk. She also told her that some risk in business can be insured by taking insurance policy. 2+2+2=6

Based on the given information about Candice, answer the following questions.

(a) What is Business Risk?

(b) Identify the main features of business risk discussed in the above case. Also, quote the lines for the identified features.

(c) Is change in taste and preferences of customers, pure risk or speculative and why?

- 33 Abhay is a Sole Proprietor. Over the past decade, his business has grown from operating a neighbourhood corner shop selling kitchen utilities such as utensils, plastic containers, crockery sets, etc., to a retail chain with three branches in the city. Although he looks after the varied functions in all the branches, he is wondering whether he should form a company to better manage the business. He also has plans to open branches countrywide. 2+2+2=6

(a) Explain two merits of remaining a Sole Proprietor.

(b) Explain two merits of converting into a Joint Stock Company.

(c) What legal formalities will he have to undergo to operate business as a company?

- 34 Karan took a marine policy worth ₹ 2,00,000 to protect his goods from the perils of sea. On the way the goods were spoiled by rats. He suffered a loss of ₹ 1,25,000. He filed a claim for the loss against the insurance company. 6

I. Can Kapil recover ₹ 1,25,000 from the insurance company.

II. Briefly explain the principle of insurance highlighted in the given case.

III. Distinguish between 'Life insurance' and 'Marine Insurance' on any three basis.

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HALF YEARLY EXAMINATION
CLASS XI
PHYSICAL EDUCATION
SAMPLE PAPER

Time: 3 Hours

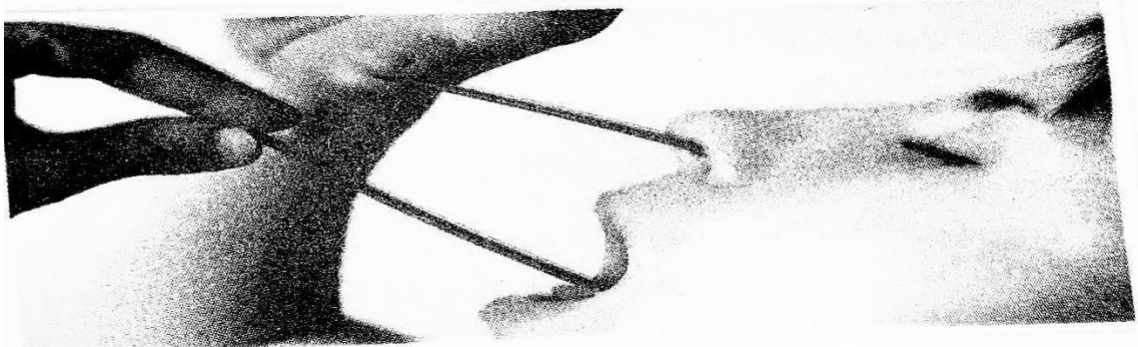
Max. Marks: 70

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 is long answer types and should not exceed 200-300 words. Attempt any 3.**

(SECTION - A)

Q1. Identify the Kriya?



- (a) Dhauti kriya (b) Basti Kriya (c) Trataka kriya (d) Sutra Neti

Q2. The sport which is not included in the Olympics is:

- (a) Cricket (b) Hockey (c) Football (d)

Athletics Q3. Which of the following is not an objective of Fit India Programme?

- (a) Fitness for all (b) To encourage masculine body
(c) Encourage indigenous sports (d) Fitness reaches every school

Q4. Which of the following is not the objective of physical education?

- (a). Emotional development
- (b) Social development
- (c). Reduce tension
- (d) Evaluation

Q5. Given below are the two statements labelled Assertion (A) and Reason (R):

A: Physical education is the development of built –in qualities in the child through physical activities.

R: Physical development helps achieve all round development

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 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.

Q6. Who is the Father of the modern Olympic Games?

- (a) Pierre-de-Coubertin
- (b) Aristotle
- (c) John Pele
- (d) None of these

Q7. Which country has roots for practice of Yoga?

- (a) India
- (b) USA
- (c) UK
- (d) Australia

Q8. Summer Olympics are held every_____years.

- (a) Five
- (b) Four
- (c)Two
- (d)Six

Q9. How many rings are there in the Olympics symbol?

- (a)Four
- (b) Five
- (c) six
- (d) None

Q10. Match List-I with List-II and select the correct answer from the code given below

Column A	Column B
A. Wearable gear	(i) Natural grass
B. Playing Surface	(ii) Smart Watch
C. Protective Equipment	(iii) 3D Lasers
D. Sensor Tools	(iv) Helmet

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

Q11. Kapalbhati improves the functioning of the:

- (a) Lungs (b) Knees (c) Joints (d) Liver

Q12. The word 'Yoga' is derived from which Sanskrit word?

- (a) Nir (b) Yuj (c) Yukti (d) None

Q13. Which of the following is not Disability etiquette?

- (a) Avoid asking personal questions (b) Use a normal tone of voice
(c) Listen attentively (d) Pretending to understand

Q14. Elements of Yoga can be explained in terms of:

- (a) Ashtanga Yoga (b) Neti (c) Yama (d) Kapalbhati

Q15. Olympic flame was first introduced in:

- (a) 1896 (b) 1928 (c) 1956 (d) 2008

Q16. Physical exercise done in the presence of oxygen is called:

- (a) aerobic (b) anaerobic (c) isometric (d)

isokinetic Q17. Adaptive physical education is :

- (a) Cognitive and Motor development
(b) The opportunity for a person exclusively
(c) Specific Programme
(d) All of the above

Q18. What is the maximum range of movement possible at a joint known as?

- (a) Flexibility (b) Coordinative ability
(c) Locomotors ability (d) None of the above

(SECTION - B)

Q19. What is the aim of Physical Education? Q20. What do you mean by intellectual disability?

Q21. Give the benefits of Kapal bhati.

Q22. What do you understand by the term Pranayama? Q23.

Briefly explain the ancient Olympics?

Q24. Describe any two career options in Physical education.

(SECTION - C)

Q25. Explain the Olympic values.

Q26. Write a short note on FIT INDIA

Program. Q27. Describe any 2 Yogic Kriyas.

Q28. What are the types of disability? Explain briefly.

Q29. A good leader delegates duties and responsibility. Do you agree? Q30.

Explain Physical Wellness.

(SECTION - D)

Q31. Rohan, a student of class XI has taken up physical education as he is very interested in making his career in the field of Physical Education. When he was introduced to the career options available in the subject, he became a bit hesitant about continuing in this field because for him physical education was just about playing so he approached his subject teacher to explain his position. On the basis of the given information given below are a few queries of Rohan and you have to give him the reply according to the information provided to you in the chapter.

- (a) A child interested in reporting the sports event should further study_____.
- (b) For making a future in Officiating a person should do_____course.
- (c) Teaching physical education to primary students requires_____as qualification.
- (d) Designing and researching sports equipment is related to_____.

Q32. While introducing the chapter of Olympism in physical Education class, Mr Davis found that children were not familiar with the term and were clueless about the various committees working in this field. So, he explained in detail about IOC and various information related to it were discussed. Based on your knowledge about IOC answer the following questions.

- (a) The full form of IOC is
- (b) IOC was established in
- (c) The headquarter of IOC is situated at
- (d) The first president of the Indian Olympic Association was

Q33. Sachin was suffering from depression along with other symptoms like pain in whole spine, pain in the hip joints and knee joints and also at the back of the thighs. He could not turn his neck and had pain and stiffness in neck and shoulders. He felt shortness of breath after a few steps. He also had travelling issues. He could not fold legs or sit down on the floor. He had tried many medicines but of no use. He heard about the yoga practices from one of his friends. He searched for a certified yoga teacher and met him. The yoga teacher taught him different yoga asana, pranayama, meditation and yogic kriyas. Sachin also learnt about Yoga Nidra. After 3 months of regular practice of yoga and better eating habits, many of his body aches have gone and he is living a better life.

- (a) Word 'Yoga' derived from

- (b) Definition 'Checking the impulses of mind is Yoga' was given by
- (c) The term used to describe alternate nostril breathing in yoga is
- (d) The concentration of mind on an impulse without any divergence is known as

(SECTION - E)

Q34. How is yoga beneficial for us explain

Q35. Describe technology advancement in sports.

Q36. What is the role of various professionals for the differentlyabled? Explain.

Q37. Write down in details about International Olympic Committee

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HALF YEARLY EXAMINATION
CLASS XI
SUBJECT- ENGLISH
SAMPLE PAPER

TIME: 3 HRS

MM. 80

GENERAL INSTRUCTIONS:

1. ALL QUESTIONS ARE COMPULSORY.
2. READ ALL INSTRUCTIONS CAREFULLY.

**Q1. Read the following passage carefully and tick the correct options that follow:
(10M)**

1. Maharana Pratap ruled over Mewar only for 25 years. However, he accomplished so much grandeur during his reign that his glory surpassed the boundaries of countries and time turning him into an immortal personality. He along with his kingdom became a synonym for valour, sacrifice and patriotism. Mewar had been a leading Rajput kingdom even before Maharana Pratap occupied the throne. Kings of Mewar, with the cooperation of their nobles and subjects, had established such traditions in the kingdom, as augmented their magnificence despite the hurdles of having a smaller area under their command and less population. There did come a few thorny occasions when the flag of the kingdom seemed sliding down. Their flag once again heaved high in the sky thanks to the gallantry and brilliance of the people of Mewar.

2. The destiny of Mewar was good in the sense that barring a few kings, most of the rulers were competent and patriotic. This glorious tradition of the kingdom almost continued for 1500 years since its establishment , right from the reign of Bappa Rawal. In fact only 60 years before Maharana Pratap, Rana Sanga drove the kingdom to the pinnacle of fame. His reputation went beyond Rajasthan and reached Delhi. Two generations before him, Rana Kumbha had given a new stature to the kingdom through victories and developmental work. During his reign, literature and art also progressed extraordinarily. Rana himself was inclined towards writing and his works are read with reverence even today. The ambience of his kingdom was conducive to the creation of high quality work of art and literature. These accomplishments were the outcome of a longstanding tradition sustained by several generations.

3. The life of the people of Mewar must have been peaceful and prosperous during the long span of time; otherwise such extraordinary accomplishment in these fields would not have been possible. This is reflected in their art and literature as well as their loving nature. They compensate for lack of admirable physique by their firm but pleasant nature. The ambience of Mewar remains lovely thanks to the cheerful and liberal character of its people.

4. One may observe astonishing pieces of workmanship not only in the forts and palaces of Mewar but also in public utility buildings. Ruins of many structures which are still

standing tall in their grandeur are testimony to the fact that Mewar was not only the land of the brave but also a seat of art and culture. Amidst aggression and bloodshed, literature and art flourished and creative pursuits of literature and artists did not suffer. Imagine how glorious the period must have been when the Vijaya Stambha which is the sample of our great ancient architecture even today, was constructed. In the same fort, Kirti Stambha is standing high, reflecting how liberal the then administration was which allowed people from other communities and kingdoms to come and carry out construction work. It is useless to indulge in the debate whether the Vijaya Stambha was constructed first or the Kirti Stambha. The fact is that both the capitals are standing side by side and reveal the proximity between the king and the subjects of Mewar.

5. The cycle of time does not remain the same. Whereas the reigns of Rana Sanga were crucial in raising the kingdom to the acme of glory, it also proved to be his nemesis. History took a turn. The fortune of Mewar - the land of the brave, started waning. Rana tried to save the day with his acumen which was running against the stream and the glorious traditions for some time.

On the basis of your understanding of the above passage answer each of the following questions.

a. Maharana Pratap became immortal because

- (i) he ruled Mewar for 25 year
- (ii) he added a lot of grandeur to Mewar
- (iii) of his valour, sacrifice and patriotism
- (iv) Both (ii) and (iii)

b. Difficulties in the way of Mewar were

- (i) lack of cooperation of the nobility
- (ii) ancient traditions of the kingdom
- (iii) its small area and small population
- (iv) the poverty of the subjects

c. During thorny occasions

- (i) the flag of Mewar seemed to be lowered
- (ii) the flag of Mewar was hoisted high
- (iii) the people of Mewar showed gallantry
- (iv) most of the rulers heaved a sigh of relief

d. Mewar was lucky because

- (i) all of its rulers were competent
- (ii) most of its people were competent
- (iii) most of its rulers were competent
- (iv) only a few of its people were incompetent

e. Who was the earliest king of Mewar mentioned in the passage?

- (i) Rana Kumbha
- (ii) Bappa Rawal
- (iii) Maharana Pratap
- (iv) Ranasanga

f. Find words from the passage which mean the same as: 2

- a. surprising (para 4)
- b. evidence (para 4)

g. What was Rana Kumbha's contribution to the glory of Mewar? 2

h. How could art and literature flourish in Mewar?

Q2. Read the passage carefully and tick the correct option. (Any 8) (1x8=8M)

LIFE BEYOND ACADEMICS

1. Academics has always been an essential part of human development. It prepares us to survive in the outside world and establish an identity of our own. But, is an individual's development restricted to merely academics? In India, from an early age, we have been taught that education is limited to the boundaries of academics only; the idea of getting out into the field, for gaining practical experience, is always considered a hoax. This has hindered students' development. But, the truth is that education represents a considerably broader field than we know of it. Our teaching, from the basics, has been focused on getting good grades and job offers, rather than being creative and unique.

2. In the 21st century, the pure academic type of education is slowly paving way for a whole new type. The paradigm shift in the whole education system is evident. People have now come to understand that education is a 360 degree activity that should focus on students' overall development, rather than restricting him/her to the classroom.

3. Co-curricular activities that take place outside the classroom but reinforce or supplement classroom curriculum, in some way, have become a point of focus today. These activities help in the growth of the child, in more than one way. Participating in such activities helps youngsters grow mentally, socially and individually. Intellectual development of a student is developed in the classroom, but for the aesthetic development such as team- building, character- building, and physical growth, students must step out into the outside world. For instance, if a student is a part of school football team, he/ she will learn team- work and coordination, in a practical manner, which cannot be taught in the class.

4. Similarly, in colleges and institutions, there is a need for practical exposure so that the students can experience the actual working of an industry. For example, taking a student to a manufacturing firm will give him/ her real insight and better learning of the industry.

Catering to this change, most professional colleges including schools have started providing practical exposure to students through regular guest lectures, industrial visits, conferences, seminars, cultural festivals, and so on. With industry visits, students are able to better identify their prospective areas of work in the overall organizational function. Moreover, they help enhance interpersonal skills and communication techniques. In addition, guest lectures are equally important for all – round development of students. It is a great way for students to gain maximum exposure, as guest speakers talk about their real- life experiences and not what is there in the text books.

5. Through such events, students are made to participate and coordinate different events wherein, they get to know how exactly things are managed. Classroom teaching provides the foundation, and co-curricular or extra- curricular activities provide practical exposure and opportunities to implement what students learn in the classroom. This helps in developing the overall personality of the students, inculcating various soft – skills in them, which otherwise are difficult to teach. Clearly, life beyond academics creates creative and empowered professionals.

On the basis of your understanding of the above passage, answer the following any eight:

1. Students' development is hindered by _____.
2. The shift in the education system means_____.
 - i. to restrict to classroom activities.
 - ii. to focus on academic development.
 - iii. to ignore 360 degree activity.
 - iv. to focus on overall development.
3. Co- Curricular activities that take place outside the classroom do not help in_____.
4. Guest speakers talk about_____.
 - i. all round development.
 - ii. their real life experiences.
 - iii. what is in text books.
 - iv. gaining exposure.
5. Classroom teaching provides _____.
6. Life beyond academics facilitates _____.
 - i. organizational functions
 - ii. creativity
 - iii. professional fields
 - iv. industrial visits
7. What is the synonym of ‘fabricated’? (Para 1)

8. What is the synonym 'cooperative effort' (Para 3)

- i. Segregation
- ii. Isolation
- iii. Team work
- iv. All of the above

9. What is the antonym of 'theoretical' (Para 5)

Q3. Read the passage carefully. (8M)

1. How does television affect our lives? It can be very helpful to people who carefully choose the shows that they watch. Television can increase our knowledge of the outside world; there are high quality programmes that help us to understand many fields of study, science, medicine, and the arts and so on. Moreover, television benefits very old people who can't often leave the house, as well as patients in hospital. It also offers non-native speakers the advantage of daily informal language practice. They can increase their vocabulary and practice listening.

2. On the other hand, there are several serious disadvantages to television. Of course, it provides us with a pleasant way to relax and spend our free time, but in some countries, people watch the 'boob-tube' for an average of six hours or more a day. Many children stare at a television screen for more hours each day than they do anything else, including studying and sleeping. It's clear that the tube has a powerful influence on their lives and that its influence is often negative.

3. Recent studies show that after only thirty seconds of watching television, a person's brain 'relaxes' the same way that it does just before the person falls asleep. Another effect of television on the human brain is that it seems to cause poor concentration. Children who view a lot of television can often concentrate on a subject for only fifteen to twenty minutes. They can pay attention only for the amount of time between commercials.

4. Another disadvantage is that television often causes people to become dissatisfied with their own lives. Real life does not seem as exciting to these people as the lives of actors on the screen. To many people television becomes more real than reality and their own lives ... boring. Also many people get upset or depressed when they can't solve problems in real life as quickly as television actors seem to.

5. Before a child is fourteen years old, he or she views eleven thousand murders on the tube. He or she begins to believe that there is nothing strange about fights, killings and other kinds of violence. Many studies show that people become more violent after certain programs. They may even do the things that they saw in a violent show.

3.1. Make notes on the above passage using proper abbreviations (04) and suggest a Suitable title. (3 + 1 + 1 = 05 Marks)

2.2. Write a summary of the above passage in about 50 words (03 Marks).

Q4. Ministry of Social Justice and Empowerment needs a poster for its 'Prevention of Drug Abuse' campaign on the occasion of International Day against Drug Abuse (26th June every year). Draft a poster to raise public awareness against drug abuse. (8M)

OR

Design a poster against the ill-effects of plastics on the environment. Suggest alternative solutions as well.

Q5. Manish has to speak in the morning assembly on the topic that life in the village is better than the life in the city. Write the speech in 150-200 words. (8M)

OR

You are Navneet,/Namita a member of school Literacy Club, which has organized literacy classes in villages and city slums under the adult education program. Draft a speech in 150 - 200 words highlighting the importance of educating the illiterates.

Q6. Read the following questions carefully and fill with correct alternatives: (any three) (1x3=3M)

1. The body of the old man _____(discover) from the central lobby.

- (a) discovers (b) discover
(c) was discovered (d) had discovered

2. Yesterday when I _____ (go) to see my friend. I _____(find) his door locked.

- (a) goes, find (b) went, found
(c) go, find (d) was going, found

3. Rishabh _____(be) feeling thrilled because he has passed his S.S.C. Examination with 90% marks.

- (a) being (b) was
(c) is (d) are

4. The Delhi Jodhpur intercity express usually _____(come) on time.

- (a) comes (b) came
(c) will come (d) shall come

Q7. Rearrange the words or phrases given below to make meaningful sentences. 4M

- (a) they / in the hall / for / two hours / watching / had been / television
- (b) blessings / you / all / on / may / showered / be
- (c) the / had / crying / been / child / the / hours / two / last / for
- (d) fly / to escape / south / starvation / to / chill / and / they

Q8. Read the extract and tick the correct options that follow. (3marks)

And who art thou? said I to the soft falling shower,
which, strange to tell, gave me an answer, as here translated:

1. Identify I and “thou” here.
2. The expression and who art thou expresses _____.
 - a) hatred
 - b) indifference
 - c) curiosity
 - d) admiration
3. Who asks the question from rain?

OR

Now she’s been dead nearly as many years
As that girl lived. And of this circumstance
There is nothing to say at all.
Its silence silences.

1. Who is she referred to here?
2. The expression “Its silence silences” is.....
 - a) paradox
 - b) simile
 - c) repetition
 - d) alliteration
3. “This circumstance” refers to.....

Q9. Read the extract and choose the correct option from the following. (3marks)

When my parents were comfortably settled in the city, they sent for us. That was a turning point in our relationship. Although we shared the same room, my grandmother no longer came to school with me.

1. Whose parents are being talked about?
2. Who are ‘we’ in the second line?
3. Why author’s grandmother didn’t accompany him to school now?

OR

More problems arose when our hand pumps started to block up with the debris floating around the cabins and the electric pump short-circuited. The water level rose threateningly. Back on deck I found that our two spare hand pumps had been wrenched overboard — along with the forestay sail, the jib, the dinghies and the main anchor.

1. Who is I in the above passage?
2. What happened to the hand pump?
3. Name the chapter and the writer.

Q10. Read the extract and answer the following questions. (4marks)

‘Every time she leaves here she takes something home with her,’ said my mother. ‘She took all the table silver in one go. And then the antique plates that hung there. She had trouble lugging those large vases, and I’m worried she got a crick in her back from the crockery.’

1. Who is she in the first line?
2. Why was the author worried about that lady?
3. Where she was taking all the stuff?
4. Name the lesson and the author of the above extract.

OR

My cousin Mourad came running down the road. I’m not worried about you, he shouted. We’ve got to get that horse. You go this way and I’ll go this way. If you come upon him, be kindly. I’ll be near.

1. Who came running?
2. Aram was worried about whom?
3. Why were they going in different directions?
4. Name the lesson and the author of the above extract.

Q11. Answer the following questions in 40-50 words (any two) (2x3=6M)

1. How did Suzanne try to lighten the gloomy atmosphere?
2. Explain the title, “We are not afraid to die- if we can all be together.” What lesson does it teach?
3. How did Howard Carter find when he began investigating King Tut’s three nested coffins?

Q12. Answer the following question in 40-50 words (any one) (1x3=3M)

1. What did the narrator learn about Mrs. Dorling from her mother?
2. What traits of the Garoghlanian family are highlighted in this story?

Q13. Answer the following questions in 100-120 words (any one) (1x6=6M)

What image of the grandmother emerges from “The Portrait of a Lady”?

OR

What inspired the author to undertake such a risky voyage? What was his experience? (We’re Not Afraid to Die....if We Can All Be Together.)

Q14. Answer the following questions in 100-120 words (any one) (1x6=6M)

The story is divided into Pre-War and post-War times. What hardships do you think the girl underwent during that time?

OR

How did the narrator reach the conclusion that his cousin Mourad had stolen the horse? Why did he refuse to believe that Mourad could be a thief?

St. PBN PUBLIC SCHOOL
HALY EARLY EXAMINATION 2024
CLASS XI
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. reads a sequence of lines of different heights and widths that are printed on various types of products.
(a) OCR (b) OMR
(c) MICR (d) Barcode Reader
2. How many bytes are there in 1011 1001 0110 1110 numbers?
(a) 1 (b) 2
(c) 4 (d) 8
3. The three greater than signs (>>>) are called the Python.....
(a) Cursor (b) Command Prompt
(c) Pointer (d) Blinking Cursor
4. Which smaller unit of CPU directs and coordinates all activities within it and determines the sequence in which instructions are executed, sending instruction sequence to other smaller units?
(a) CU (b) ALU
(c) Processor (d) All of these
5. What does the following code print to console?
If True:
 Print (101)
Else:

Print (202)

(a) 101

(b) 202

(c) 303

(d) 102

6. UTF8 is a type of encoding.

(a) ASCII

(b) Extended ASCII

(c) Unicode

(d) ISCII

7. Component of CPU which is responsible for comparing the contents of two pieces of data is

(a) ALU

(b) CU

(c) Memory

(d) Register

8. Identify the type of error shown below :

```
>>> 10 * (1/0)
Traceback (most recent call last):
  File "<pyshell#0>", line 1, in <module>
    10 * (1/0)
ZeroDivisionError: division by zero
```

(a) Syntax Error

(b) Run-time Error

(c) Logical Error

(b) None of these

9. Which one of the following if statement will execute successfully?

(a) if (1 , 2):

print ('hello')

(b) if (1 , 2)

print ('hello')

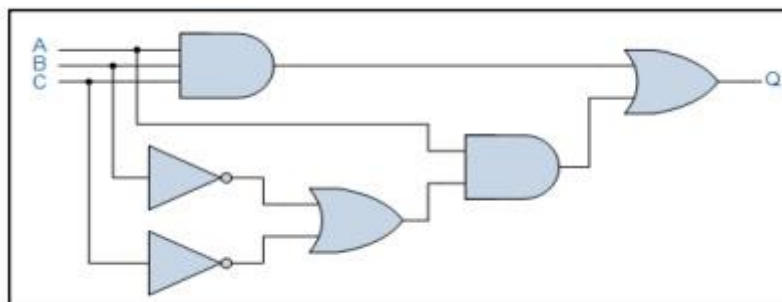
(c) if (1 , 2):

print ('hello')

(d) if (1):

print ('hello')

10. Select the equivalent Boolean expression from the following options for the logic circuit given below :



(a) $(A + B + C) \cdot A + (B' \cdot C')$

(b) $(A \cdot B \cdot C) + A + B' + C'$

(c) $(A + B + C) \cdot A' + (B \cdot C)$

(d) $(A \cdot B \cdot C) + A \cdot (B' + C')$

11. What is the output of this expression, $2*2**1$?

- (a) 27
- (b) 9
- (c) 3
- (d) 1

12. Consider the given expression:

"Python" or True and "Programming" or not 70

Which of the following will be correct output if the given expression is evaluated?

- (a) True
- (b) False
- (b) 'Python'
- (c) 'Programming'

13. Which of the following is NOT a computational thinking technique?

- (a) Coding
- (b) Decomposition
- (c) Pattern Recognition
- (d) Abstraction

14. What will be the output of the following Python code?

```
A=' Virtual Reality'
```

```
A.replace('Virtual','Augmented')
```

- (a) Virtual Augmented
- (b) Reality Augmented
- (c) Augmented Virtual
- (d) Augmented Reality

15. Which of the following will give "Simon" as output?

```
str1="John, Simon, Aryan"
```

- (a) print(str1[-7:-12])
- (b) print(str1[-11:-7])
- (c) print(str1[-12:-6])
- (d) print(str1[-7:-11])

16. Identify the correct print() statement:

- (a) print (Hello)
- (b) print("Hello")
- (c) print('Hello')
- (d) print("Hello')

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):** Python is a dynamically typed language

Reason (R): The data type of a variable is declared as per the type of value assigned to it

18. **Assertion (A):** Comments are non-executable statements that are ignored by the interpreter

Reason (R): Comments are used to explain the code and to make it more informative for the users. They are basically statements used to put remarks.

SECTION B

(2x 7 = 14)

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

```
a = 25
if a < 15:
    print("Hi")
if a <= 30:
    print("Hello")
else:
    print("Know Program")
```

(b) How many times will "Hello" be printed when the following python code is executed?

```
i=0
while (i<3) :
    print ("Hello")
    i=i+1
```

(1+1)

20. a) Write the python statement to type cast the float value of r = 90.45 into an integer type.
b) Draw a truth table of NAND Gate.

(1+1)

21. Distinguish between String Slicing and String Concatenation.

(2)

OR

Difference between algorithm and flowchart.

22. Write the output of the code given below :

```
mySubject = 'Computer Science'
print(mySubject[::2])
print(mySubject[-7:-1])
print(mySubject.isalpha())
print(mySubject.find('te'))
```

(2)

23. a) Convert Octal Number $(455)_8$ into its equivalent decimal number.

b) Write the truth table of a Boolean expression $X \cdot (Y+Z)=X \cdot Y+ X \cdot Z$

(1+1)

24. Distinguish between break and continue statements using examples.

(2)

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

```

a=0
y=0
for i in range(1,3):
    for j in range(1,i):
        x=i+j-1
        if x%2==0:
            y+=x
        elif z%3==0:
            y+=z-2
print(y)

```

SECTION C

(3x 5 = 15)

26. (i) What do you mean by Shorthand/Assignment operators?

(ii) Write a Python program to calculate and display Area and Perimeter of a rectangle.. (1+2)

27. (i) Rewrite the code after correcting the errors.

```

a = int["Enter a number for a:"]
for in range(1,15)
if a = b
print"Equal numbers"
else
print" Non equal numbers"

```

(ii) Distinguish between 'for loop' and 'while loop'.

(1+2)

28. Write a program to accept a string and check whether the string is palindrome or not.

OR

Using the string true human = 'Loves One and All', what would be returned by following string slices?

a) True human [- 3:]

b) True human [12:]

c) True human [10: - 12]

(3)

29. Write a Python program to swap two numbers without using a third variable.

(3)

30. Explain the following terms:

(i) Interpreter

(ii) HLL

(iii) TUI(Touch user Interface)

(3)

SECTION D

(5x 3 = 15)

31. Vidyapeeth is a reputed institution in the field of academics and extracurricular activities and involved in the overall growth of every child. Every year with the commencement of the new session, it hikes fee by 10% for all students which was done manually till now and required enormous efforts on the part of office staff.

To solve this problem develop a python program that automatically calculates this 10% fee hike every year after obtaining the basic fee amount from the user and displays it for the parents of students enrolled with the institute. (5)

32. (i) Write a python program to input a string having some digits and alphabets and calculate the total number of digits and alphabets present in that string.

For example:

Enter a string: I love2 python34 progr2amming

Output:

The total number of digits: 4

The total number of alphabets: 22

(ii) Write the output of the code given below:

```
myAddress = "WZ-1,New Ganga Nagar,New Delhi"  
print(myAddress.split(','))  
print(myAddress.index('ag'))  
print(myAddress.find('wz'))  
print(myAddress.lstrip('Z-1W'))
```

OR

(Option for part (ii) only)

Laxmi 's teacher has given her an assignment question on: By using the concept of Strings in Python, consider the string z = "Green Revolution". Write statements in python to implement the following:

(a) To display the last four characters.

(b) To repeat the string 3 times.

(3+2)

33. Write a program in Python to find the grade of the student when grades are allocated as given in the table

Percentage of Marks	Grade
Above 90%	A
80% to less than 90%	B
70% to less than 80%	C
60% to less than 70%	D
Below 60%	E

below:

Percentage of marks obtained by the student is input to the program

(5)

SECTION E

(2 x 4 = 8)

34. Write a programme that takes a sentence as an input parameter where each word in the sentence is separated by a space. The Function should replace each blank with a hyphen and then return the modified sentence. (4)

35. Shilpa of Class-XI was reading an article in the Newspaper. The article had some grammatical errors. Then Ajay thought of correcting the grammatical errors as well as to have fun by playing with the words and characters present in the article. Ajay belongs to Computer Science stream; she wrote a Python program to do the same. But in some parts, she had confusion. As a Computer Programmer, can you help Ajay for the above purpose?

```
str1="computer science"
uc=0
print (str1. ( ))      # Line 1
print (str1.upper())  # Line 2
print (str1. _ ())    # Line 3
str2=str1.lstrip("com")
for a in str1:
    if a.isupper():   # Line 4
uc+=1
print ("Number of uppercase characters in the string are : ",uc)
print (str2)
```

- (i) Fill in the blank in Line1 to print the line with 1st character in capital letter i.e. 'computer science'.
- (ii) Predict the outcome she will obtain while executing Line 2.
- (iii) Fill the blank in Line3 to print the line with first character of each word in capital letter.
- (iv) Help Reena to understand the purpose of Line 4 in the program.

(1+1+1+1)

**ST. PBN PUBLIC SCHOOL
 HALF YEARLY EXAMINATION
 CLASS - XI
 ECONOMICS
 SAMPLE PAPER**

TIME: 3 Hours

MM: 80

NAME: _____

DATE: _____

GENERAL INSTRUCTIONS:

1. This question paper contains two sections:

Section A – Statistics for Economics

Section B – Inductory Micro Economics

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

STATISTICS FOR ECONOMICS

Objective Type Questions (Q1 to Q10)

1 x10=10

1. Choose appropriate word and fill in the blank.

Headings should generally be written in _____ form.

(Singular/Plural)

2. Data represented through a histogram can help in finding graphically the :

(Choose the correct alternative)

a) Mean	b) Mode
c) Median	d) All the above

3. Ogives can be helpful in locating graphically the:

(Choose the correct alternative)

a) Mode	b) Median
c) Mean	d) None of the above

4. From the set of statements given in column I and column II, choose the correct pair of statements:

Column I	Column II
A. Textual presentation of data	(i) Most suitable when the quantum of data is very large
B. Caption	(ii) Title given to a column of a table
C. General purpose table	(iii) Also called summary tables
D. Source of data	(iv) Given at the top of a table

Alternatives:

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

5. Which of the following is a source of secondary data?

(Choose the correct alternative)

(a) Government publication	(b) Private publication
(c) Report published by the State Bank of India	(d) All of these

Read the following statements (Question No. 6-7)- Assertion (A) and Reason (R). Choose one of the correct alternatives given below:

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.

6. Assertion (A): In inclusive series, there is a gap between the upper limit of a class interval and the lower limit of the next class interval.

Reason (R): In an open-end series, lower limit of the first class interval and the

	upper limit of the last class interval is missing.																						
7.	Assertion (A): Arithmetic mean is a stable measure of central tendency. Reason (R): Changes in the sample of a series have minimum effect on the arithmetic average.																						
8	State whether the following statement is 'True' or 'False'. Investigator is a person who plans and conducts an empirical investigation independently.																						
9.	Census of India is carried out once in _____ years. <table border="1" style="width: 100%; text-align: center;"> <tr> <td>a) 10</td> <td>b) 5</td> </tr> <tr> <td>c) 15</td> <td>d) 20</td> </tr> </table>	a) 10	b) 5	c) 15	d) 20																		
a) 10	b) 5																						
c) 15	d) 20																						
10.	If the value of mean and mode is 25 and 24 respectively then what would be the value of median. (Choose the correct alternative) <table border="1" style="width: 100%; text-align: center;"> <tr> <td>a) 23.4</td> <td>b) 23.5</td> </tr> <tr> <td>c) 24.5</td> <td>d) 24.6</td> </tr> </table>	a) 23.4	b) 23.5	c) 24.5	d) 24.6																		
a) 23.4	b) 23.5																						
c) 24.5	d) 24.6																						
	Short Answer Questions (Q11 to Q12) 3 x 2 = 6																						
11	The mean wage of 100 workers is ₹ 324. The mean wage of 60 workers is ₹ 340. Find the mean wage of remaining 40 workers.																						
12	What are the precautions needed to be taken while drafting a questionnaire? OR "The government and the policy makers use statistical data to formulate suitable policies of economic development." Explain this statement by giving two examples.																						
	Short Answer Questions (Q13 to Q15) 4 x 3 = 12																						
13	Calculate median from the following data: <table border="1" style="width: 100%; text-align: center;"> <tr> <td>Marks</td> <td>0</td> <td>5</td> <td>10</td> <td>15</td> <td>20</td> <td>25</td> <td>30</td> <td>35</td> <td>40</td> <td>45</td> </tr> <tr> <td>No. of Students</td> <td>4</td> <td>6</td> <td>15</td> <td>5</td> <td>8</td> <td>12</td> <td>28</td> <td>14</td> <td>3</td> <td>5</td> </tr> </table>	Marks	0	5	10	15	20	25	30	35	40	45	No. of Students	4	6	15	5	8	12	28	14	3	5
Marks	0	5	10	15	20	25	30	35	40	45													
No. of Students	4	6	15	5	8	12	28	14	3	5													

14	<p>Calculate the arithmetic mean from the following data by using assumed mean method.</p> <table border="1" data-bbox="172 224 1279 362"> <tr> <td>Class Interval</td> <td>20-25</td> <td>25-30</td> <td>30-35</td> <td>35-40</td> <td>40-45</td> <td>45-50</td> <td>50-55</td> </tr> <tr> <td>Frequency</td> <td>10</td> <td>12</td> <td>8</td> <td>20</td> <td>11</td> <td>4</td> <td>5</td> </tr> </table> <p style="text-align: center;">OR</p> <p>What do you mean by distrust of statistics? What precautions should be considered to remove this problem?</p>	Class Interval	20-25	25-30	30-35	35-40	40-45	45-50	50-55	Frequency	10	12	8	20	11	4	5																
Class Interval	20-25	25-30	30-35	35-40	40-45	45-50	50-55																										
Frequency	10	12	8	20	11	4	5																										
15	<p>There were 80 persons in a trip organised by a school. Out of which 60 were students, 14 were teachers and 6 (all males) were peons. Out of total persons, 16 were females including one lady teacher. Present the given information in a table.</p>																																
<p>Long Answer Questions (Q16 to Q17) 6 x 2 = 12</p>																																	
16	<p>The following table gives the marks scored by 7 participants in a solo dance competition by two different judges, X and Y. Calculate the coefficient of correlation by spearman's rank method and interpret the result.</p> <table border="1" data-bbox="172 929 1209 1034"> <tr> <td>X</td> <td>66</td> <td>90</td> <td>89</td> <td>55</td> <td>58</td> <td>44</td> <td>42</td> </tr> <tr> <td>Y</td> <td>58</td> <td>76</td> <td>65</td> <td>58</td> <td>53</td> <td>49</td> <td>56</td> </tr> </table>	X	66	90	89	55	58	44	42	Y	58	76	65	58	53	49	56																
X	66	90	89	55	58	44	42																										
Y	58	76	65	58	53	49	56																										
17	<p>Calculate mode from the following data:</p> <table border="1" data-bbox="172 1120 1260 1272"> <tr> <td>Marks</td> <td>5-10</td> <td>10-15</td> <td>15-20</td> <td>20-25</td> <td>25-30</td> <td>30-35</td> <td>35-40</td> </tr> <tr> <td>No. of Students</td> <td>4</td> <td>5</td> <td>3</td> <td>2</td> <td>6</td> <td>7</td> <td>3</td> </tr> </table> <p style="text-align: center;">OR</p> <p>In the following frequency distribution, find out missing frequency if the arithmetic mean is 28.</p> <table border="1" data-bbox="172 1400 1417 1534"> <tr> <td>Wages (Rs)</td> <td>0-10</td> <td>10-20</td> <td>20-30</td> <td>30-40</td> <td>40-50</td> <td>50-60</td> <td></td> </tr> <tr> <td>No. of workers</td> <td>12</td> <td>18</td> <td>27</td> <td>?</td> <td>17</td> <td>6</td> <td></td> </tr> </table>	Marks	5-10	10-15	15-20	20-25	25-30	30-35	35-40	No. of Students	4	5	3	2	6	7	3	Wages (Rs)	0-10	10-20	20-30	30-40	40-50	50-60		No. of workers	12	18	27	?	17	6	
Marks	5-10	10-15	15-20	20-25	25-30	30-35	35-40																										
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No. of workers	12	18	27	?	17	6																											
<p>SECTION B: INTRODUCTORY MICRO ECONOMICS</p>																																	
<p>Objective Type Questions (Q18 to Q 27) 1 x10=10</p>																																	
18	<p>In the USA, the role of the government is minimal, due to:</p> <p style="text-align: right;">(Choose the correct alternative)</p> <table border="1" data-bbox="172 1982 1244 2067"> <tr> <td>a) Capitalist economy</td> <td>b) Socialist economy</td> </tr> <tr> <td>c) Mixed economy</td> <td>d) All of these</td> </tr> </table>	a) Capitalist economy	b) Socialist economy	c) Mixed economy	d) All of these																												
a) Capitalist economy	b) Socialist economy																																
c) Mixed economy	d) All of these																																

19	<p>Producer's equilibrium refers to a stage of output at which:</p> <p style="text-align: right;">(Choose the correct alternative)</p> <table border="1" style="width: 100%;"> <tr> <td data-bbox="172 255 708 421">a) The firm earns maximum profits</td> <td data-bbox="708 255 1241 421">b) The firm has no inclination of changing the level of output</td> </tr> <tr> <td data-bbox="172 421 708 510">c) The firm suffers minimum losses</td> <td data-bbox="708 421 1241 510">d) All of these</td> </tr> </table>	a) The firm earns maximum profits	b) The firm has no inclination of changing the level of output	c) The firm suffers minimum losses	d) All of these								
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20	<p>A commodity which is demanded less when consumer's income rises, it termed as:</p> <p style="text-align: right;">(Choose the correct alternative)</p> <table border="1" style="width: 100%;"> <tr> <td data-bbox="172 714 708 792">a) Inferior</td> <td data-bbox="708 714 1241 792">b) Normal</td> </tr> <tr> <td data-bbox="172 792 708 880">c) Giffen</td> <td data-bbox="708 792 1241 880">d) Superior</td> </tr> </table>	a) Inferior	b) Normal	c) Giffen	d) Superior								
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21	<p>Law of diminishing marginal utility states that as more and more units of a commodity are consumed by a consumer, marginal utility tends to:</p> <p style="text-align: right;">(Choose the correct alternative)</p> <table border="1" style="width: 100%;"> <tr> <td data-bbox="172 1084 708 1128">a) Diminish</td> <td data-bbox="708 1084 1241 1128">b) Increase</td> </tr> <tr> <td data-bbox="172 1128 708 1173">c) Become zero</td> <td data-bbox="708 1128 1241 1173">d) Remain constant</td> </tr> </table>	a) Diminish	b) Increase	c) Become zero	d) Remain constant								
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22	<p>When $E_D = 1.6$, then demand is _____.</p> <p style="text-align: right;">(Fill up the blank with correct answer) </p> <table border="1" style="width: 100%;"> <tr> <td data-bbox="172 1397 655 1520">a) perfectly inelastic</td> <td data-bbox="655 1397 1251 1520">b) perfectly elastic</td> </tr> <tr> <td data-bbox="172 1520 655 1644">c) elastic</td> <td data-bbox="655 1520 1251 1644">d) inelastic.</td> </tr> </table>	a) perfectly inelastic	b) perfectly elastic	c) elastic	d) inelastic.								
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<p>Read the following hypothetical information carefully and answer the questions 23-24 based on the same.</p> <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th data-bbox="172 1816 440 1944">Output (Units)</th> <th data-bbox="440 1816 708 1944">Total variable cost (TVC)</th> <th data-bbox="708 1816 976 1944">Average variable cost (AVC)</th> <th data-bbox="976 1816 1241 1944">Marginal cost (MC)</th> </tr> </thead> <tbody> <tr> <td data-bbox="172 1944 440 1989">1</td> <td data-bbox="440 1944 708 1989">20</td> <td data-bbox="708 1944 976 1989">20</td> <td data-bbox="976 1944 1241 1989">20</td> </tr> <tr> <td data-bbox="172 1989 440 2031">2</td> <td data-bbox="440 1989 708 2031">?_____</td> <td data-bbox="708 1989 976 2031">16</td> <td data-bbox="976 1989 1241 2031">12</td> </tr> </tbody> </table>		Output (Units)	Total variable cost (TVC)	Average variable cost (AVC)	Marginal cost (MC)	1	20	20	20	2	?_____	16	12
Output (Units)	Total variable cost (TVC)	Average variable cost (AVC)	Marginal cost (MC)										
1	20	20	20										
2	?_____	16	12										

	3	54	?	22
	4	80	20	?
23	At 2 nd unit of output produced, total variable cost will be_____.			
	(Fill in the blank with correct answer)			
	a) 4	b) 8		
	c) 32	d) 36		
24	At 3 rd unit of output produced, average variable cost will be_____.			
	(Fill in the blank with correct answer)			
	a) 10	b) 18		
	c) 38	d) 66		
25	<p>Read the following statements - Assertion (A) and Reason (R). Choose one of the correct alternatives given below:</p> <p>Assertion (A):Producer's equilibrium doesn't get disturbed when a unit more than the equilibrium level of output is produced.</p> <p>Reason (R):The difference between TR and TVC shrinks as more than equilibrium level of output is produced.</p> <p>Alternatives:</p> <p>(a) Both Assertion (A) and Reason (R) are true and Reason (R) is the correct explanation of Assertion (A)</p> <p>(b) Both Assertion (A) and Reason (R) are true and Reason (R) is not the correct explanation of Assertion</p> <p>(c) Assertion (A) is true but Reason (R) is false.</p> <p>(d) Assertion (A) is false but Reason (R) is true.</p>			
26	If due to fall in the price of good X, demand for good Y rises, the two goods are:			
	(Choose the correct alternative)			
	a) Substitutes	b) Complementary		
	c) Not related	d) Competitive		

27	<p>From the set of statements given in Column I and Column II, choose the correct pair of statements among the given alternatives:</p> <table border="1" data-bbox="172 295 1414 1075"> <thead> <tr> <th data-bbox="172 295 520 371">Column I</th> <th data-bbox="520 295 1414 371">Column II</th> </tr> </thead> <tbody> <tr> <td data-bbox="172 371 520 551">A. Marginal rate of substitution</td> <td data-bbox="520 371 1414 551">(i) It refers to the number of units of good Y which the consumer is willing to gain for an additional unit of good X.</td> </tr> <tr> <td data-bbox="172 551 520 730">B. Consumer's bundle</td> <td data-bbox="520 551 1414 730">(ii) It is qualitative combination of the goods which can be purchased by a consumer from his given expenses at given prices.</td> </tr> <tr> <td data-bbox="172 730 520 909">C. Budget set</td> <td data-bbox="520 730 1414 909">(iii) It is quantitative combination of those bundles which a consumer can purchase from his given income at prevailing market prices.</td> </tr> <tr> <td data-bbox="172 909 520 1075">D. Consumer Budget</td> <td data-bbox="520 909 1414 1075">(iv) It states the real employment of consumer from which he can purchase certain qualitative bundles of the goods at given</td> </tr> </tbody> </table> <p>Alternatives:</p> <table border="1" data-bbox="172 1155 1414 1317"> <tbody> <tr> <td data-bbox="172 1155 794 1232">a) A-(i)</td> <td data-bbox="794 1155 1414 1232">b) B-(ii)</td> </tr> <tr> <td data-bbox="172 1232 794 1317">c) C-(iii)</td> <td data-bbox="794 1232 1414 1317">d) D-(iv)</td> </tr> </tbody> </table>	Column I	Column II	A. Marginal rate of substitution	(i) It refers to the number of units of good Y which the consumer is willing to gain for an additional unit of good X.	B. Consumer's bundle	(ii) It is qualitative combination of the goods which can be purchased by a consumer from his given expenses at given prices.	C. Budget set	(iii) It is quantitative combination of those bundles which a consumer can purchase from his given income at prevailing market prices.	D. Consumer Budget	(iv) It states the real employment of consumer from which he can purchase certain qualitative bundles of the goods at given	a) A-(i)	b) B-(ii)	c) C-(iii)	d) D-(iv)
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c) C-(iii)	d) D-(iv)														
	<p>Short Answer Questions (Q28 to Q29) 3x2=6</p>														
28	<p>Explain the central problem of distribution in an economy. OR “The present government of U.P. is undertaking various developmental projects for the upliftment of the state. What will be the impact of such development on PPC of Uttar Pradesh?</p>														
29	<p>The demand for a good at (₹) 10 per unit is 40 units. Price falls by (₹) 5. If price elasticity of demand is (-3). Calculate the new quantity demanded.</p>														
	<p>Short Answer Questions (Q30 to Q32) 4x 3 = 12</p>														

30	<p>Identify the relevant phases of the law of variable proportions from the following schedule and give reasons for the same.</p> <table border="1" data-bbox="167 219 1241 488"> <thead> <tr> <th data-bbox="167 219 708 264">Units of Labour</th> <th data-bbox="708 219 1241 264">Average Product</th> </tr> </thead> <tbody> <tr> <td data-bbox="167 264 708 309">1</td> <td data-bbox="708 264 1241 309">10</td> </tr> <tr> <td data-bbox="167 309 708 353">2</td> <td data-bbox="708 309 1241 353">12</td> </tr> <tr> <td data-bbox="167 353 708 398">3</td> <td data-bbox="708 353 1241 398">14</td> </tr> <tr> <td data-bbox="167 398 708 443">4</td> <td data-bbox="708 398 1241 443">14.5</td> </tr> <tr> <td data-bbox="167 443 708 488">5</td> <td data-bbox="708 443 1241 488">14</td> </tr> </tbody> </table>	Units of Labour	Average Product	1	10	2	12	3	14	4	14.5	5	14
Units of Labour	Average Product												
1	10												
2	12												
3	14												
4	14.5												
5	14												
31	<p>a) Define monotonic preferences. (b) State three main causes of a rightward shift in demand curve of a commodity. Or Explain the factors affecting the magnitude of price elasticity of demand.</p>												
32	<p>Why does the difference between average cost curve and average variable cost curve gradually decline?</p>												
	<p>Long Answer Questions (Q33 to Q34) 6 x 2 = 12</p>												
33	<p>(a) "Mutual interdependence and exchange are the core elements of an economy." Comment. (b) Why is a production possibilities curve downward sloping? (c) Explain the relation between total utility and marginal utility. Or (a) Draw a diagram indicating the following situations: (i) $MRS_{XY} > P_x/P_y$, (ii) $MRS_{XY} = P_x/P_y$, (iii) $MRS_{XY} < P_x/P_y$ (b) Which of the three indicates highest level of consumer's satisfaction and why? (c) Why does demand curve slope downwards? Explain.</p>												
34	<p>Read the following case study carefully and answer the questions (a) and (b) on the basis of the same:</p> <p>The law of diminishing marginal returns is a theory in economics that predicts that after optimal level is reached, adding an additional factor of production will actually result in smaller increases in output. For example, a factory employs workers to manufacture its products, and, at some point, the company operates at an optimal level. With all other production factors constant, adding additional workers beyond this optimal level will result in less efficient operations. The law of diminishing returns is related to the concept of diminishing marginal utility. It can also be contrasted with economies of scale.</p> <p>(a) State the law of diminishing marginal product and explain the same with the help of a diagram. (b) State the causes of diminishing returns to a factor.</p>												

**St. PBN PUBLIC SCHOOL
HALF YEARLY EXAMINATION
CLASS- XI
SUBJECT- ACCOUNTANCY
SAMPLE PAPER
2024-2025**

Time: 3Hrs

MM: 80

GENERAL INSTRUCTIONS:

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

1. State whether the statement is True or False: (1)
In Cash Basis of accounting, matching principle is not followed.

2. Cost concept means: (1)
(a) Sale of goods at cost price
(b) Sale of goods at market price
(c) Sale of goods at cost plus percentage of cost
(d) Recording of asset in the books at cost price

3. Scope of Accounting is _____ than that of Book-keeping. (1)
OR
What are errors of commission?

4. What is the rule of recording transactions in Nominal Accounts? (1)
OR

Assertion (A): Accounting records only the transactions of financial nature.

Reasoning (R): Goods taken from the business by the proprietor for his personal use is not of financial nature and hence will not be recorded.

- (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.

5. What is a credit note?

OR (1)

State whether the statements is True or False:

Provision is made to meet an unknown liability.

6. Which account will be credited on giving the goods as charity: (1)

- (a) Purchase A/c
- (b) Drawings A/c
- (c) Sales A/c
- (d) Charity A/c

7. The fact that a business is separate and distinguishable from its owner is best exemplified by the _____ concept. (1)

8. Goodwill A/c is :

- (a) Personal Account
- (b) Real Account
- (c) Nominal Account
- (d) None of the above

OR (1)

What is Narration?

9. **Assertion (A):-** Furniture purchased will be debited to Purchase Account.

Reason (R):- Furniture purchased is Capital Expenditure for the business. (1)

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

10. Give the full form of SGST. (1)

11. State whether the statements is True or False: (1)

Liability = Assets- Capital

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

Column A

Column B

- | | |
|--------------------|--|
| i. Trial Balance | a) present the financial position |
| ii. Profit & Loss | b) amount not recoverable |
| iii. Balance Sheet | c) to ascertain the Net profit or Net loss |
| iv. Bad Debts | d) to check arithmetical accuracy |

13. Profit on sale of assets is used to create: (1)

- | | |
|---------------------|----------------------|
| (a) General Reserve | (b) Specific Reserve |
| (c) Capital Reserve | (d) All of the above |

14. What is Petty cash book? (1)

15. What is a cheque?

OR (1)

Ledger account gives the folio of _____.

16. State whether the statements is True or False: (1)

Accounting standards ensure the consistency and comparability of financial statements.

17. Give an example of increase in one asset, decrease in another asset.

OR (1)

Assertion (A): Profit and Loss Account and Balance Sheet are financial statements showing financial position of a business unit.

Reason (R): Profit and Loss Account and Balance Sheet are prepared at the end of the financial year.

- (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.

18. The accounts which relate to an individual, firm, company or an institution are called _____ accounts. (1)

19. Goods costing Rs. 20,000 is sold at a profit of 20% on cost and trade discount is allowed @ 10% and cash discount of 10% is also allowed. Half the payment was received at the time of sale. What is the amount of cash received at the time of sale?

- | | |
|----------------|----------------|
| (a) Rs. 9,720 | (b) Rs. 10,800 |
| (c) Rs. 11,880 | (d) Rs. 10,820 |

OR (1)

Assertion (A): Intangible assets are those assets which do not have physical existence.

Reason (R): Intangible assets helps in earning profits these assets are not purchased or sold in the open market.

- (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.

20. Sold goods for cash of the list price of Rs. 8,000 at 10% trade discount and 3% cash discount. Posting will be made in Discount A/c: (1)

- (a) Rs. 216 on Debit side (b) Rs. 216 on Credit side
- (c) Rs. 240 on Debit side (d) Rs. 240 on Credit side

21. Under which principle the calibre or quality of the management is not disclosed in the balance sheet? Explain also. (3)

22. Enumerate three advantages of Ledger? (3)

OR (3)

What do you mean by General Reserve? For what purpose it is created?

23. State to which class of accounts does each of the following relate:

- a) Leasehold Property b) Bad Debts
- c) Drawings d) Rent Received
- e) Copyrights f) Bank Account (3)

24. Following information is provided by Yashodhra Rajput for the year ended 31st March, 2023:

Credit Sales	Rs. 12,50,000	
Cash Sales	Rs. 40,00,000	
Expenses (Out of which Rs. 30,000 is still to be paid)	Rs. 5,00,000	

Ascertain the net profit or loss as per accrual basis of accounting. (3)

25. Read the following hypothetical Case Study and answer the given questions:

Mr. Sunrise started a business for buying and selling of stationery with Rs. 5,00,000 as an initial investment. Of which he paid Rs. 1,00,000 for furniture, Rs. 2,00,000 for buying stationery items. He employed a sales person and clerk. At the

end of the month he paid Rs. 5,000 as their salaries. Out of the stationery bought he sold some stationery for Rs. 1,50,000 for cash and some other stationery for Rs. 1,00,000 on credit basis to Mr. Ravi. Subsequently, he bought stationery items of Rs. 1,50,000 from Mr. Peace. In the first week of next month there was a fire accident and he lost Rs. 30,000 worth of stationery. A part of the machinery, which cost Rs. 40,000, was sold for Rs. 45,000.

- i. What is the amount of capital with which Mr. Sunrise started business?
- ii. What are the fixed assets he bought?
- iii. What are the expenses?

OR (3)

Define the following terms:

- (a) Assets
- (b) Drawings
- (c) Capital

26. Explain any three objectives of accounting. (3)

27. Show the accounting equation on the basis of the following transactions:

- (i) Started business with Cash Rs. 60,000 and Goods Rs. 30,000.
- (ii) Purchased goods for Cash Rs. 40,000 and on Credit Rs. 25,000
- (iii) Goods costing Rs. 48,000 sold at a profit of $33\frac{1}{3}\%$. Three-fourth payment received in cash.
- (iv) Goods costing Rs. 20,000 sold at a loss of 5%, out of which Rs. 12,000 received in cash. (4)

28. "Cash Basis of Accounting is not a better basis for depicting the correct financial position of an enterprise." Do you agree? Give reasons in support of your answer. (4)

29. State four advantages of accounting standards. (4)

OR (4)

Explain any four qualitative characteristics of accounting information.

30. Explain the following:

- (a) Full Disclosure
- (b) Consistency concept

(c) Conservatism

(6)

31. Enter the following transactions in the sales books of Ganesh & Co. of Jaipur (Rjasthan), who deals in furniture. Assume CGST @ 6% and SGST @ 6%:-

2017

- January 5** Sold to Gupta Furniture House, New Delhi: -
120 Chairs @ Rs.2,500 per chair
25 Tables @ Rs.8,000 per Table
Less: 5%
- January 8** Sold to Raja Furniture House, Ahmedabad (Gujarat): -
8 Almirahs @ Rs.15,000 each
9 Steel Cabinets @ Rs.20,000 each
Less: Trade Discount 10%
- January 12** Sold old Computer for Rs.1,500 to Mohan & Co. on credit.
- January 20** Sold to New Furniture House, Jaipur: -
5 Sofa sets @ Rs. 20,000 each
10 Tables @ Rs. 8,000 each
- January 25** Sold 4 Sofa sets @ Rs. 25,000 each to Varun & Co. for cash
- January 31** Purchaed from Ram Lal & Co. Jaipur on credit:-
50 chairs @ Rs. 2,000 each (6)

32. The following are the balances extracted from the books of Mr. A.Mukhopadhyay. Prepare a trial Balance as on 31st March, 2019:

(6)

	Rs.		Rs.
Cash	2,000	Sundry Creditors	40,000
Capital	80,000	Investment	8,000
Purchases	85,000	Plant and Machinery	15,000
Sales	1,08,400	Building	20,000
Purchases Return	6,000	Furniture	6,000
Sales Return	4,000	Electricity	700
Transportation	1,800	Postage	400
Discount Allowed	500	Drawings	8,000
Printing	5,000	Salaries	6,000
Sundry Debtors	70,000	Travelling	2,000
Input CGST A/c	2,500	Output CGST A/c	1,500
Input SGST A/c	2,500	Output SGST A/c	1,500
Input IGST A/c	4,000	Output IGST A/c	6,000

33. Enter the following transactions in a Cash Book with Cash and Bank Columns:-

2017

March 1 Cash in Hand Rs. 15,000; Bank Rs. 8,000.

2 Sold goods to X on credit for Rs. 10,000.

5 Sold goods for Rs. 20,000; received cheque from them, discount allowed $2\frac{1}{2}\%$. Cheque was deposited into bank on 7th March.

10 Purchased goods from Suresh on the terms of 5% Cash discount if the payment is made within 3 days Rs 20,000.

12 Payment made to Suresh; half in Cash and half by cheque.

14 Received a Bank Draft for Rs. 6,820 from Siya Ram in full settlement of Rs. 7,000 due from him. Sent the draft to the bank.

16 Settled Pawan's account of Rs. 5,000 at a discount of 5%.

17 Goods worth Rs. 8,000 were purchased from Sunil on 5th March. Its payment was made today by cheque after deducting 5% cash discount.

18 Withdrawn from Bank Rs. 20,000 and Furniture was purchased for Rs. 15,000; the balance taken by the proprietor.

20 Received a cheque from Ravi for Rs. 2,850 in settlement after deducting 5%. Endorsed the cheque to Gopal on 22nd March.

22 Placed an order with 'Jai Traders' for goods of the value of Rs. 10,000 and sent a cheque of Rs. 8,000 with the order.

23 Purchased furniture by cheque of Rs. 6,000.

24 Cash sales Rs. 15,000; half of which deposited into bank.

25 X settled his account by payment of Rs. 10,150; Rs. 150 being the interest charged.

27 Paid rent to Landlord 'Rakesh' by cheque Rs. 2,000

28 Cashed a cheque for Rs. 10,000 and paid salaries in cash Rs. 8,000.

31 Deposited into bank, balance of cash in excess of Rs. 5,000.

OR

(6)

Enter the following transactions in a Cash Book with Cash and Bank Columns of Mr. Mohan:-

2018

Jan. 1 Cash in Hand Rs. 2,200; Bank Rs. 50,000.

3 Purchased goods for Rs. 75,000, Trade Discount 20%; CGST 6%; SGST 6%; Payment made by Cheque.

- 4 Sold goods for Rs. 40,000; Trade Discount 15%; IGST; 12%;
Payment received by Cheque
- 5 Received a cheque from Naresh Rs. 1,000
- 8 Cheque received from Naresh endorsed to Suresh in full
settlement of his account of Rs. 1,050
- 10 Paid life Insurance premium of Mr.Mohan Rs. 100
- 13 Received a cheque Rs.700 from Pawan in full settlement of his
account of Rs.750.
- 16 Pawan's cheque returned dishonoured by bank
- 20 Deposited into Bank, balance of Cash in excess of Rs. 250

34. Journalise the following transactions: -

- i. Provide interest on capital Rs. 5,00,000 @ 12% for 9 months.
- ii. Supplied goods costing Rs.50,000 to Sapna, issued invoice at 10% above
cost less 5% trade discount.
- iii. Sold goods costing Rs.15,000 for Rs.20,000. Payment is received by
cheque which is immediately deposited into bank.
- iv. Bought goods from Radhika for Rs.2,00,000 at a trade discount of 15%
and cash discount of 2%. Paid 80% amount immediately.
- v. Anil who owed us Rs. 50,000 becomes insolvent and a final dividend of
60 paise in a rupee is received from his estate.
- vi. Out of the rent paid this year, Rs.10,000 relates to the next year.

OR (6)

Fill in the missing information in the following journal entries:

JOURNAL

S.No.	Particulars	L. F.	Amount Dr. (Rs.)	Amount Cr. (Rs.)

a)	Dr.	25,000	
	To (Custom duty paid by cheque on import of a new machinery)		25,000
b)	Abbas & Sons Dr.	_____	
	To (Goods costing Rs. 50,000 sold above 10%; less 10% trade discount.)		_____
c)	Dr.	_____	
	To (Interest charged on capital of Rs. 20,00,000 @ 9% p.a. for 7 months.)		_____
d)	Dr.	_____	
	To (Depreciation provided on Computers costing Rs. 1,50,000 @ 20% p.a. for 9 months.)		_____
e)	Bank A/c Dr.	42,000	
	Dr.	_____	
	To (60 Paise in the rupee received from official receiver of Gopal on his insolvency.)		_____
f)	Dr.	46,000	
	Dr.	_____	
	To (Cash received from Gaurav and discount allowed @ 8%)		_____

St. PBN PUBLIC SCHOOL
HALF YAERLY EXAMINATION
CLASS - XI
MATHEMATICS
SAMPLE PAPER

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. For any set A, $(A')'$ is equal to

- | | |
|----------|---------------------|
| (i) A' | (iii) \emptyset |
| (ii) A | (iv) None of these. |

2. In set builder method the null set is represented by

- | | |
|------------------|-------------------------|
| (i) $\{\}$ | (iii) $\{x: x \neq x\}$ |
| (ii) \emptyset | (iv) $\{x: x = x\}$ |

3. Let R be a relation from a set A to set B, then

- | | |
|---------------------|--------------------------------|
| (i) $R = A \cup B$ | (iii) $R \subseteq A \times B$ |
| (ii) $R = A \cap B$ | (iv) $R \subseteq B \times A$ |

4. If the set A has p elements, B has q elements, then the number of elements in $A \times B$ has

- | | |
|------------------|------------|
| (i) $p + q$ | (iii) pq |
| (ii) $p + q + 1$ | (iv) p^2 |

5. If $a = 1 + i$, then a^2 equals

- | | |
|-------------|------------------------|
| (i) $1 - i$ | (iii) $(1 + i)(1 - i)$ |
| (ii) $2i$ | (iv) $i - 1$ |

6. The amplitude of $\frac{1}{i}$ is equal to

- | | |
|----------------------|------------------------|
| (i) 0 | (iii) $-\frac{\pi}{2}$ |
| (ii) $\frac{\pi}{2}$ | (iv) π |

7. Write the number of elements in the power set of null set.
- (i) 0 (iii) 2
(ii) 1 (iv) 3
8. The solution set of the inequation $|x + 2| \leq 5$ is
- (i) (-7, 5) (iii) [-7, 3]
(ii) [-5, 5] (iv) (-7, 3)
9. Write the interval in set builder form
- (i) (6,2) (ii) (-3,0)
10. If $4x + i(3x - y) = 3 + i(-6)$, where x and y are real numbers, then find the values of x and y.
11. Find the value of $\sin 765^\circ$.
12. Write the equations for x-axis and y-axis.
13. Find a point on the x-axis, which is equidistant from the points (7, 6) and (3, 4).
14. Evaluate: i^{19} .
15. Convert $40^\circ 20'$ into radian measure.
16. Find the range of the function $f(x) = [x]$, where $[x]$ is greatest integer function.
6, 7, 10, 12, 13, 4, 8, 12
17. Express $3(7 + 7i) + i(7 + 7i)$ in the form of $a+ib$.
18. If $(x+1, y-2) = (3, 1)$, find the values of x and y.
19. Solve $2(2x+3)-10 \leq 6(x-2)$.
20. Write the set of all vowels in English alphabet which precede s.

Section B

21. If $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$, $A = \{2, 4, 6, 8\}$ and $B = \{2, 3, 5, 7\}$, verify that
- (i) $(A \cup B)' = A' \cap B'$ (ii) $(A \cap B)' = A' \cup B'$
22. Define the function $f: \mathbb{R} \rightarrow \mathbb{R}$ by $y = f(x) = x^2$, $x \in \mathbb{R}$. what is domain and range of this function?
23. Let $A = \{1, 2, 3\}$, $B = \{3, 4\}$ and $C = \{4, 5, 6\}$. Find
- (i) $A \times (B \cap C)$ (ii) $(A \times B) \cup (A \times C)$
24. Express the following in the form of $a+ib$:
- $$\frac{5 + \sqrt{2}i}{1 - \sqrt{2}i}$$
25. Find the value of x for which the points $(x, -1)$, $(2, 1)$ and $(4, 5)$ are collinear.

Section C

26. In a survey of 600 students in a school, 150 students were found to be taking tea and 225 taking coffee, 100 were taking both tea and coffee. Find how many students were taking neither tea nor coffee?
27. Find all pairs of consecutive even positive integers, both of which are larger than 5, such that their sum is less than 23.
28. Find the conjugate of $\frac{(3-2i)(2+3i)}{(1+2i)(2-i)}$.
29. If $x+iy = \frac{a+ib}{a-ib}$, prove that $x^2 + y^2 = 1$.
30. Find the value of $\tan \frac{\pi}{8}$.
31. How many 3-digit even numbers can be made using the digits 1, 2, 3, 4, 6, 7, if no digit is repeated?

Section D

32. In a survey of 60 people, it was found that 25 people read newspaper H, 26 read newspaper T, 26 read newspaper I, 9 read both H and I, 11 read both H and T, 8 read both T and I, 3 read all the three newspaper find
- (i) The number of people who read atleast one of the newspapers.
 - (ii) The number of people who read exactly one newspaper.
33. Let $z_1 = 2 - i, z_2 = -2 + i$. Find
- (i) $Re\left(\frac{z_1 z_2}{z_1}\right)$,
 - (ii) $Im\left(\frac{1}{z_1 z_1}\right)$
34. In a survey it was found that 21 people liked product A, 26 liked product B and 29 liked product C. if 14 people liked products A and B, 12 people liked products C and A, 14 people liked product B and C and 8 liked all the three products. Find how many liked product C only.
35. What is the number of ways of choosing 4 cards from a pack of 52 playing cards? In how many of these
- (i) four cards are of the same suit,
 - (ii) four cards belong to four different suits,
 - (iii) two are red cards and two are black cards,
- OR
- i) Find the number of permutations of the letters of the word ALLAHABAD
 - ii) How many numbers lying between 100 and 1000 can be formed with the digits 0, 1, 2, 3, 4, 5, if the repetition of the digits is not allowed?

SECTION E

36. Case Study I:

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

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

37. Case study II:

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

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

38. Case Study III:

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

- (i). Find the number of employees who offered all three floors.
- (ii). Find the number of employees who offered ground floor.
- (iii). Find the number of employees who offered first floor.
- (iv). The number of employees who did not offer any of the above three floors.

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