

15P/298/4

Question Booklet No. 98

(To be filled up by the candidate by blue/black ball-point pen)

Roll No.

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Roll No.

(Write the digits in words)

Serial No. of OMR Answer Sheet

Day and Date

(Signature of Invigilator)

INSTRUCTIONS TO CANDIDATES

(Use only blue/black ball-point pen in the space above and on both sides of the Answer Sheet)

1. Within 10 minutes of the issue of the Question Booklet, check the Question Booklet to ensure that it contains all the pages in correct sequence and that no page/question is missing. In case of faulty Question Booklet bring it to the notice of the Superintendent/Invigilators immediately to obtain a fresh Question Booklet.
2. Do not bring any loose paper, written or blank, inside the Examination Hall *except the Admit Card without its envelope*.
3. A separate Answer Sheet is given. *It should not be folded or mutilated. A second Answer Sheet shall not be provided. Only the Answer Sheet will be evaluated.*
4. Write your Roll Number and Serial Number of the Answer Sheet by pen in the space provided above.
5. **On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.**
6. No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR sheet and also Roll No. and OMR Sheet No. on the Question Booklet.
7. Any change in the aforesaid entries is to be verified by the invigilator, otherwise it will be taken as unfair means.
8. Each question in this Booklet is followed by four alternative answers. *For each question, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by ball-point pen as mentioned in the guidelines given on the first page of the Answer Sheet.*
9. For each question, darken only one circle on the Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.
10. *Note that the answer once filled in ink cannot be changed. If you do not wish to attempt a question, leave all the circles in the corresponding row blank (such question will be awarded zero mark).*
11. For rough work, use the inner back page of the title cover and the blank page at the end of this Booklet.
12. Deposit *only the OMR Answer Sheet* at the end of the Test.
13. You are not permitted to leave the Examination Hall until the end of the Test.
14. If a candidate attempts to use any form of unfair means, he/she shall be liable to such punishment as the University may determine and impose on him/her.

[उपर्युक्त निर्देश हिन्दी में अन्तिम आवरण-पृष्ठ पर दिये गए हैं।]

[No. of Printed Pages : 20+2]

15P/298/4

No. of Questions/प्रश्नों की संख्या : 100

Time/समय : 2 Hours/घण्टे

Full Marks/पूर्णांक : 300

Note/नोट : (1) Attempt as many questions as you can. Each question carries 3 marks. One mark will be deducted for each incorrect answer. Zero mark will be awarded for each unattempted question.

अधिकतम प्रश्नों को हल करने का प्रयत्न करें। प्रत्येक प्रश्न 3 अंक का है। प्रत्येक गलत उत्तर के लिए एक अंक काटा जाएगा। प्रत्येक अनुत्तरित प्रश्न का प्राप्तांक शून्य होगा।

(2) If more than one alternative answers seem to be approximate to the correct answer, choose the closest one.

यदि एक अधिक वैकल्पिक उत्तर सही उत्तर के निकट प्रतीत हों, तो निकटतम सही उत्तर दें।

1. Father of Extension education in India is

(1) O.P Dihama (2) K. N Singh (3) Advi Reddy (4) J. B Chitambar

2. Bavistin is which type of Fungicide?

(1) Contact (2) Systemic (3) Biological (4) Chemical

(334)

1

(P.T.O.)

3. Blast disease of rice can be controlled by
(1) Urea (2) Agrosan (3) B.H.C (4) DDT
4. The seed produced from Foundation seeds
(1) Nucleus Seed (2) Foundation Seed
(3) Certified Seed (4) Breeder Seed
5. If the Income Elasticity of demand is greater than one (> 1), the commodity will be
(1) Inferior (2) Necessary (3) Luxury (4) Essential
6. C.F.T.R.I is located at
(1) New Delhi (2) Mysore (3) Hyderabad (4) Bangalore
7. The end product of glycolysis is
(1) Ethanol (2) Pyruvic acid (3) Malic acid (4) Carbon Dioxide
8. EDTA Mixture is
(1) Repellant (2) Attractant (3) Fumigant (4) Antifeedant
9. ANOVA [Analysis of Variance] is a test for quality of
(1) Variances (2) Proportions (3) Means (4) Two Parameters

10. The process of production of nitrate from ammonia through Nitrosomonas is known as
- (1) Ammonification (2) Nitrogen Fixation
(3) Nitrification (4) Dinitrification
11. The relationship between Price and Quantity supplied in the Law of Supply is
- (1) Direct (2) Indirect (3) Inverse (4) Proportionate
12. Photoperiodically Rice is a
- (1) Short Day Plant (2) Long Day Plant
(3) Day Neutral Plant (4) C4 Plant
13. The central Agmark lab is located at
- (1) Mumbai (2) Nagpur (3) Bangalore (4) Kolkata
14. Edible banana is
- (1) Diploid (2) Triploid (3) Tetraploid (4) Hexaploid
15. Transgenic variety of tomato is
- (1) Firy Ball (2) Pusa Ruby (3) Flavr Savr (4) Flame
16. The concept of Consumer Surplus was given by
- (1) Alfred Marshall (2) Keynes
(3) Adam Smith (4) Robinson

17. GNP stands for

- (1) Gross Net Product (2) Gross National Product
(3) Gross Nominal Product (4) Gross Non - Product

18. The Correlation coefficient varies between

- (1) 0 to 1 (2) -1 to 0 (3) -1 to +1 (4) >1

19. Concept of Biovillage was proposed by

- (1) G. Perumal (2) Anil Gupta
(3) M.S Swaminathan (4) V.L Chopra

20. Agarose is extracted from

- (1) Weeds (2) Seaweed (3) Plants (4) Animals

21. The market situation, in which there is only one seller of a commodity in the market, is called

- (1) Oligopoly (2) Monopoly (3) Duopoly (4) Free Market

22. The state having highest number of KVKA is

- (1) Bihar (2) Madhya Pradesh
(3) Uttar Pradesh (4) Maharashtra

23. A loan taken for a period of 18 months is called

- (1) Short term loan (2) Medium term loan
(3) Long term loan (4) Capital loan

24. Crop farming and milk production is an example of

- (1) Competitive enterprise (2) Supplementary enterprise
(3) Complementary enterprise (4) Exclusive enterprise

25. Which is the apex organization for making of co-operative societies at the national level?

- (1) FCI (2) NCCF
(3) Marketing Bank (4) NAFED

Directions (Question No. 26 to 34) : Read the following passage carefully and answer the questions given below it. Certain words are given in bold in the passage to help you locate them while answering some of the questions.

Swami Vivekanand had said, "So long as the millions live in hunger and ignorance, I hold everyone traitor, who, having been educated at their expense, pays not the least heed to them".

This issue has become **relevant** in the light of the recent fall from grace of the American capitalist image. The Enron, World.com and Xerox exposures have revealed the ugly side of Western style capitalism under which, in the **quest** for short term gains, wrong doings are overlooked. As a result people have lost trust in corporate performance and those involved in it.

Further, many of those involved, in these scandals were highly educated. In India too, we have had our share of such scams in the stock market and the actors involved in them were educated men.

Earning of profits is, no doubt, the main aim of any business. But, if they are earned with principles they enrich people's lives. As the Jagadguru Sankaracharya says, "All for each and each for all" should be the motto of **enlightened** men.

JRD Tata used to say "While profit motive, no doubt, provides the main spark for any economic activity any enterprise which is not motivated by consideration of urgent service to the community becomes **obsolete** soon and cannot fulfill its real role in modern society".

When we talk of investing in education, a question arises as to what kind of education needs to be given to the youngsters. Our aim is to **evolve** not only an **affluent** society, but an egalitarian, just, humane and compassionate society. For that we need people who possess not only high skills but high values as well.

So the need of the hour is not only skill-based education but also value-inspired and value-based education. We can find answer for the present sickness in contemporary civilization in the Indian philosophy.

26. According to the author, a true businessman should

- (1) earn profit regardless of any consideration
- (2) run business profitably and ethically
- (3) conduct business with principles despite making losses
- (4) should have least concern for enrichment for people's lives

27. The author has pointed out the people involved in scandals and scams were

- | | |
|---------------------|-------------------------|
| (1) Social workers | (2) Political leaders |
| (3) Educated people | (4) Corporate governors |

28. The author has given the example of Enron, Xerox etc. to emphasize the point that

- (1) The western style of capitalism is advantageous
- (2) Overcoming short-term gains is not desirable
- (3) We should build up trust in corporate performance
- (4) We should get involved into long term gains

29. As per Swami Vivekanand, which of the following will be the most appropriate definition of "traitor" ?
- (1) Educated people ignoring the starving and illiterate masses
 - (2) Millions who live in hunger and ignorance
 - (3) All those educated people who look after the masses
 - (4) All social workers who are duty bound
30. What are the ultimate expectations from education to be imparted to the youngsters ?
- (a) To evolve an affluent society
 - (b) To make people inculcate high values
 - (c) To help the youth acquire higher skills.
- (1) a and b only
 - (2) b and c only
 - (3) a and c only
 - (4) all of the three a,b and c
31. Which of the following can be most appropriate title for the above passage?
- (1) Capitalism of the western countries
 - (2) Profit earning as a business motto
 - (3) Establishing communal harmony
 - (4) Need for high skill and value-oriented education
32. What, according to the author, is a way to improve the evils in the society?
- (1) Teachings of Indian philosophy
 - (2) High value-based and skill-based education
 - (3) Skill oriented training
 - (4) Contemporary education as in the western countries

33. "All for each, each for all" means

- (1) All of us should be having business as motto
- (2) Each of us should be concerned for highest profit
- (3) All businessman should run business for each of them
- (4) Everyone in the country should look for the benefits of all the others

34. Which of the following is the view of JRD Tata as described by the author?

- (1) Consideration of urgent service to community should be side lined
- (2) The main purpose for any economic activity should be only profitability
- (3) Profit should be earned with due consideration to social service
- (4) Motivation to earn profit has become an outdated concept

Directions (Question No. 35 to 37) : Choose the word which is MOST NEARLY THE SAME in meaning as the word written in bold.

35. Quest

- (1) Search
- (2) Quality
- (3) Zeal
- (4) Enthusiasm

36. Evolve

- (1) Involve
- (2) Develop
- (3) Generate
- (4) Envisage

37. Obsolete

- (1) Complete
- (2) Unreliable
- (3) Unimaginable
- (4) Outdated

Directions (Question No. 38 to 40) : Choose the word which is MOST OPPOSITE in meaning as the word written in bold.

38. Affluent

- (1) Responsible (2) Inconsiderate (3) Unrealistic (4) Deprived

39. Relevant

- (1) Relative (2) Irregular (3) Unrelated (4) Irrespective

40. Enlightened

- (1) Ignorant (2) Unimaginative (3) Impolite (4) Rustic

Directions (Question No. 41 to 45) : In the following questions, four alternatives are given for the idiom/phrase Bold printed in the sentence. Choose the alternative which best expresses the meaning of the idiom/phrase.

41. She tries very hard to keep up with her rich neighbours

- (1) to imitate (2) to keep in touch
(3) to avoid (4) to be on par

42. The poet drew on his fancy not his knowledge of nature, when he wrote his poem on birds

- (1) used his understanding (2) used his knowledge
(3) used his imagination (4) used his skill

43. He is not the sort of man to let the grass grow under his feet

- (1) to remain idle (2) to be generous
(3) to be stingy (4) to be impatient

44. The boy **takes after** his father
(1) Resembles (2) Likes (3) Looks after (4) Runs after
45. The saint's life was **an open book**
(1) An uncomplicated one (2) One that held no secrets
(3) An example to all (4) An interesting biography
46. A train running at the speed of 60 km/hr crosses a pole in 9 seconds. What is the length of the train?
(1) 120 metres (2) 180 metres (3) 324 metres (4) 150 metres
47. If 20 % of x is 60, then 15 % of x is
(1) 45 (2) 54 (3) 48 (4) 55
48. Three times the first of three consecutive odd integers is 3 more than twice the third. The third integer is
(1) 9 (2) 11 (3) 13 (4) 15
49. A polygon has 44 diagonals. Then the numbers of its sides are
(1) 9 (2) 11 (3) 7 (4) 13
50. A can do a work in 15 days and B in 20 days. If they work on it together for 4 days, then the fraction of the work that is left is
(1) $1/4$ (2) $1/10$ (3) $7/15$ (4) $8/15$

51. The graph $Y = 5$ cuts the graph of $X + Y = 9$ at which point?
(1) (4,5) (2) (0,5) (3) (5,4) (4) (5,0)
52. A is two years older than B who is twice as old as C. If the total of the ages of A, B and C be 27, then how old is B?
(1) 7 (2) 8 (3) 9 (4) 10
53. Rs. 120 is divided among X, Y, Z so that X's share is Rs. 20 more than Y's share and Rs. 20 less than Z's share. What is Y's share?
(1) Rs. 40 (2) Rs 60 (3) Rs. 20 (4) Rs. 50
54. The ratio of the area of a square to that of a square drawn on its diagonal is
(1) 1:2 (2) 2:1 (3) 1:4 (4) 4:1
55. X% of Y is Y% of what?
(1) X (2) 100X (3) Y (4) 100Y
56. A series of discounts of 20%, 10% and 10% is equivalent to a single discount of (approx)
(1) 45% (2) 40% (3) 35% (4) 30%
57. Mr. Singh buys 11 candles for Rs. 10 and sells them at 10 for Rs. 11. Mr. Singh's gain percent is
(1) 0% (2) 21% (3) 1% (4) 23%
58. A person crosses a 600m long street in 5 minutes. What is his speed in km per hour?
(1) 3.6 (2) 7.2 (3) 8.4 (4) 10

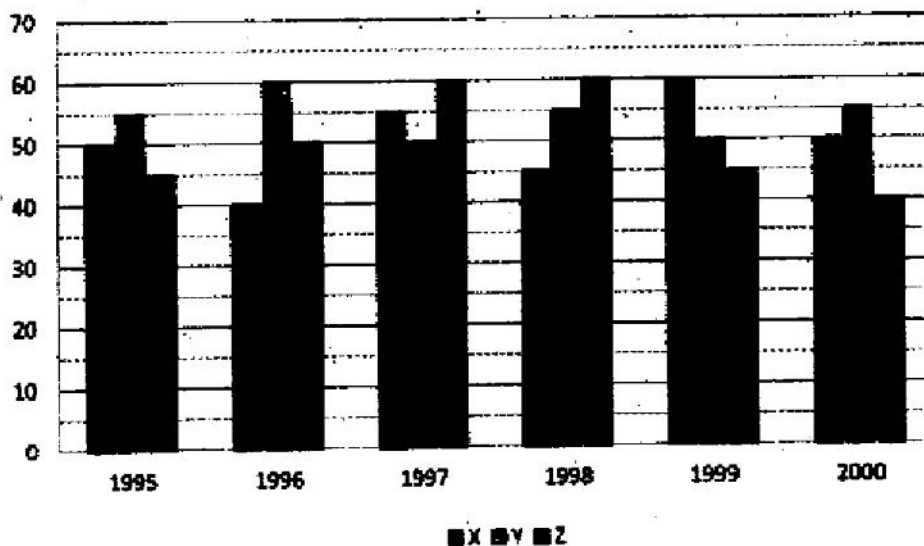
- 67.** Who has been recently elected as the Governor of Reserve Bank of India?
 (1) H.R Khan (2) D. Subba Rao
 (3) C. Raghuram Rajan (4) Vimal Jalan
- 68.** Indian Planning Commission was constituted in
 (1) 1948 (2) 1949 (3) 1950 (4) 1951
- 69.** Which city will host the 2020 Olympic Games?
 (1) Durban (2) London (3) Madrid (4) Tokyo
- 70.** Who is the actor of the film *Bhag Milkha Bhag*?
 (1) Farhan Akhtar (2) Salman Khan (3) Aamir Khan (4) Ajay Devgan
- 71.** Which of these are a public sector bank?
 (1) ICICI Bank (2) Axis Bank (3) Dena Bank (4) HSBC Bank
- 72.** India's first mission to which planet Blasted off successfully completing the first stage of an 11 months journey?
 (1) Venus (2) Jupiter (3) Mars (4) Saturn
- 73.** Which Company have bought Nokia?
 (1) Microsoft (2) Samsung (3) Apple (4) Sony
- 74.** Rearing of Honeybee is known as
 (1) Pisciculture (2) Sericulture (3) Vermiculture (4) Apiculture
- 75.** The scientific study of Atmosphere is known as
 (1) Meteorology (2) Physiology (3) Metallurgy (4) Entamology

79. The total expenditure of the company over these items during the year 2000 is?
- (1) Rs. 544.44 lakhs (2) Rs. 501.11 lakhs
 (3) Rs. 446.46 lakhs (4) Rs. 478.87 lakhs
80. The ratio between the total expenditure on Taxes for all the years and the total expenditure on Fuel and Transport for all the years is approximately?
- (1) 4:7 (2) 10:13 (3) 15:18 (4) 5:8

Directions (Question No. 81 to 85) : Study the bar graph carefully and answer the questions given below it.

A soft drink company prepares drinks of three different flavors of X, Y and Z. The production of three flavors over a period of six years has been expressed in the bar graph provided below.

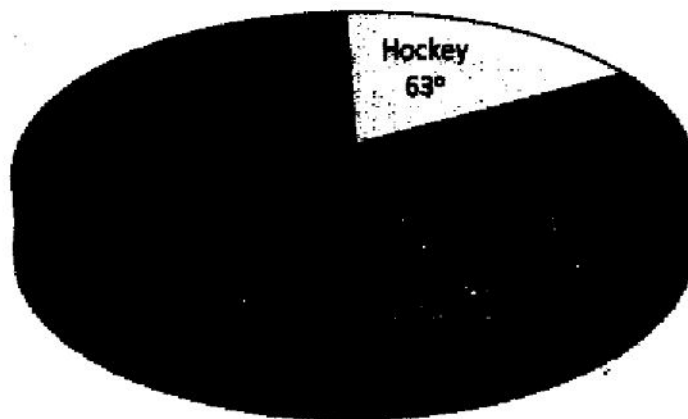
Production of Three Different Flavors X, Y and Z by a Company over the years (in lakh bottles)



- 81.** The total production of flavor Z in 1997 and 1998 is what percentage of the total production of flavor X in 1995 and 1996?
- (1) 96.67% (2) 102.25%
(3) 115.57% (4) 133.33%
- 82.** For which flavor was the average annual production maximum in the given period?
- (1) X only (2) Y only
(3) Z only (4) X and Y
- 83.** What is the difference between the average production of flavor X in 1995, 1996 and 1997 and the average production of flavor Y in 1998, 1999 and 2000?
- (1) 50,000 bottles (2) 80,000 bottles
(3) 2,40,000 bottles (4) 5,00,000 bottles
- 84.** What was the approximate decline in the production of flavor Z in 2000 as compared to the production in 1998?
- (1) 50% (2) 42% (3) 33% (4) 25%
- 85.** For which of the following years the percentage of rise/fall in production from the previous year is the maximum for the flavor Y?
- (1) 1996 (2) 1997 (3) 1998 (4) 1999

Directions (Question No. 86 to 90) : Study the circle graph carefully and answer the questions given below it.

The circle-graph given here shows the spending of a country on various sports during a particular year.



86. What percent of total spending is spent on Tennis?

- (1) 12.1 % (2) 22.1% (3) 25% (4) 45%

87. How much percent more is spent on Hockey than that on Golf?

- (1) 27% (2) 35% (3) 37.5% (4) 75%

88. If the total amount spent on sports during the year be Rs. 1,80,00,000, the amount spent on Basketball exceeds on Tennis by

- (1) Rs. 2,50,000 (2) Rs. 3,60,000
(3) Rs. 3,75,000 (4) Rs. 4,10,000

89. How much percent less is spent on Football than that on Cricket?

- (1) $22\frac{2}{9}\%$ (2) 27% (3) $33\frac{1}{3}\%$ (4) $37\frac{1}{7}\%$

90. If the total amount spent on sports during the year was Rs. 2 crores, the amount spent on Cricket and Hockey together was

- (1) Rs. 8,00,000 (2) Rs. 80,00,000
(3) Rs. 1,20,00,000 (4) Rs. 1,60,00,000

91. What is the 8th letter to the right of 6th letter from your right in the following series?

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

- (1) O (2) D (3) C (4) B

92. Find out the odd letter group out

- (1) KMPTZ (2) DFIMR (3) HJMQV (4) ACFJO

93. The word which cannot be formed from the letters used in the word "EXAMINATION" is

- (1) MAINTAIN (2) MAXIMUM (3) NOMINATION (4) TAXATION

94. If all the numbers from 1 to 73, which are divisible by 7 are arranged in descending order, then which numbers will be at 8th and 5th position?

- (1) 21, 42 (2) 28, 42 (3) 21, 56 (4) 14, 49

95. A man is facing west. He turns 45° in the clockwise direction then another 180° in the same direction and then 270° in the anti-clockwise direction. Which direction he is facing now?

- (1) South-west (2) North-west (3) West (4) South

96. In this question below is given a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Give answer

- (a) If only assumption I is implicit
 (b) If only assumption II is implicit
 (c) If either I or II is implicit
 (d) If neither I nor II is implicit

Statement: "Computer education should start at schools itself."

Assumptions :

- I. Learning computers is easy.
 II. Computer education fetches jobs easily.
 (1) Only assumption I is implicit
 (2) Only assumption II is implicit
 (3) Either I or II is implicit
 (4) Neither I nor II is implicit

97. Six students A, B, C, D, E and F are sitting in a field. A and B are from Delhi while the rest are from Bangalore. D and F are tall while others are short. A, C and D are girls while others are boys. Which is the tall girl from Bangalore?
- (1) F (2) D (3) E (4) C
98. Mohan ranks seventh from the top and twenty sixth from the bottom in a class. How many students are there in the class?
- (1) 30 (2) 33 (3) 34 (4) 32
99. If 'x' means '+', '+' means '-', '-' means 'x' and '+' means '+', then what is the value of $8 \times 7 - 8 + 40 + 2$
- (1) 44 (2) $43/5$ (3) $37/5$ (4) 1
100. Replace the question mark plug, qmah, evil, iwom, made, ?
- (1) neeo (2) nuea (3) nbef (4) neei

★ ★ ★

अभ्यर्थियों के लिए निर्देश

(इस पुस्तिका के प्रथम आवरण-पृष्ठ पर तथा उत्तर-पत्र के दोनों पृष्ठों पर केवल नीली या काली बाल-प्वाइंट पेन से ही लिखें।)

1. प्रश्न पुस्तिका मिलने के 10 मिनट के अन्दर ही देख लें कि प्रश्नपत्र में सभी पृष्ठ मौजूद हैं और कोई प्रश्न छूटा नहीं है। पुस्तिका दोषयुक्त पाये जाने पर इसकी सूचना तत्काल कक्ष-निरीक्षक को देकर सम्पूर्ण प्रश्नपत्र की दूसरी पुस्तिका प्राप्त कर लें।
2. परीक्षा भवन में लिफाफा रहित प्रवेश-पत्र के अतिरिक्त, लिखा या सादा कोई भी खुला कागज साथ में न लायें।
3. उत्तर-पत्र अलग से दिया गया है। इसे न तो मोड़ें और न ही विकृत करें। दूसरा उत्तर-पत्र नहीं दिया जायेगा, केवल उत्तर-पत्र का ही मूल्यांकन किया जायेगा।
4. अपना अनुक्रमांक तथा उत्तर-पत्र का क्रमांक प्रथम आवरण-पृष्ठ पर पेन से निर्धारित स्थान पर लिखें।
5. उत्तर-पत्र के प्रथम पृष्ठ पर पेन से अपना अनुक्रमांक निर्धारित स्थान पर लिखें तथा नीचे दिये वृत्तों को गाढ़ा कर दें। जहाँ-जहाँ आवश्यक हो वहाँ प्रश्न-पुस्तिका का क्रमांक तथा सेट का नम्बर उचित स्थानों पर लिखें।
6. ओ० एम० आर० पत्र पर अनुक्रमांक संख्या, प्रश्न-पुस्तिका संख्या व सेट संख्या (यदि कोई हो) तथा प्रश्न-पुस्तिका पर अनुक्रमांक सं० और ओ० एम० आर० पत्र सं० की प्रविष्टियों में उपरिलेखन की अनुमति नहीं है।
7. उपर्युक्त प्रविष्टियों में कोई भी परिवर्तन कक्ष निरीक्षक द्वारा प्रमाणित होना चाहिये अन्यथा यह एक अनुचित साधन का प्रयोग माना जायेगा।
8. प्रश्न-पुस्तिका में प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं। प्रत्येक प्रश्न के वैकल्पिक उत्तर के लिये आपको उत्तर-पत्र की सम्बन्धित पंक्ति के सामने दिये गये वृत्त को उत्तर-पत्र के प्रथम पृष्ठ पर दिये गये निर्देशों के अनुसार पेन से गाढ़ा करना है।
9. प्रत्येक प्रश्न के उत्तर के लिये केवल एक ही वृत्त को गाढ़ा करें। एक से अधिक वृत्तों को गाढ़ा करने पर अथवा एक वृत्त को अपूर्ण भरने पर वह उत्तर गलत माना जायेगा।
10. ध्यान दें कि एक बार स्याही द्वारा अंकित उत्तर बदला नहीं जा सकता है। यदि आप किसी प्रश्न का उत्तर नहीं देना चाहते हैं तो सम्बन्धित पंक्ति के सामने दिये गये सभी वृत्तों को खाली छोड़ दें। ऐसे प्रश्नों पर शून्य अंक दिये जायेंगे।
11. रफ़ कार्य के लिये प्रश्न-पुस्तिका के मुखपृष्ठ के अन्दर वाले पृष्ठ तथा अंतिम पृष्ठ का प्रयोग करें।
12. परीक्षा के उपरान्त केवल ओ०एम०आर० उत्तर-पत्र परीक्षा भवन में जमा कर दें।
13. परीक्षा समाप्त होने से पहले परीक्षा भवन से बाहर जाने की अनुमति नहीं होगी।
14. यदि कोई अभ्यर्थी परीक्षा में अनुचित साधनों का प्रयोग करता है, तो वह विश्वविद्यालय द्वारा निर्धारित दंड का/की, भागी होगा/होगी।