

Question Booklet No.

(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, Please ensure that you have got the correct booklet and it contains all the pages in correct sequence and 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.*
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 Roll No. and OMR sheet No. on the Question Booklet.*
7. *Any changes in the aforesaid-entries is to be verified by the invigilator, otherwise it will be taken as unfair means.*
8. *This Booklet contains 40 multiple choice questions followed by 10 short answer questions. For each MCQ, 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 pen as mentioned in the guidelines given on the first page of the Answer Sheet. For answering any five short Answer Questions use five Blank pages attached at the end of this Question Booklet.*
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 marks).
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 *both OMR Answer Sheet and Question Booklet* 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 गये हैं।]

Total No. of Printed Pages : 20

FOR ROUGH WORK/रफ़ कार्य के लिए

Research Entrance Test – 2013

No. of Questions : 50

प्रश्नों की संख्या : 50

Time : 2 Hours

Full Marks : 200

समय : 2 घण्टे

पूर्णांक : 200

Note : (i) This Question Booklet contains 40 Multiple Choice Questions followed by 10 Short Answer Questions.

इस प्रश्न पुस्तिका में 40 वस्तुनिष्ठ व 10 लघु उत्तरीय प्रश्न हैं।

(ii) Attempt as many MCQs as you can. Each MCQ carries 3 (Three) marks. 1 (One) mark will be deducted for each incorrect answer. Zero mark will be awarded for each unattempted question. If more than one alternative answers of MCQs seem to be approximate to the correct answer, choose the closest one.

अधिकाधिक वस्तुनिष्ठ प्रश्नों को हल करने का प्रयत्न करें। प्रत्येक वस्तुनिष्ठ प्रश्न 3 (तीन) अंकों का है। प्रत्येक गलत उत्तर के लिए 1 (एक) अंक काटा जायेगा। प्रत्येक अनुत्तरित प्रश्न का प्राप्तांक शून्य होगा। यदि वस्तुनिष्ठ प्रश्नों के एकाधिक वैकल्पिक उत्तर सही उत्तर के निकट प्रतीत हों, तो निकटतम सही उत्तर दें।

(iii) Answer only 5 Short Answer Questions. Each question carries 16 (Sixteen) marks and should be answered in 150-200 words. Blank 5 (Five) pages attached with this booklet shall only be used for the purpose. Answer each question on separate page, after writing Question No.

केवल 5 (पाँच) लघु उत्तरीय प्रश्नों के उत्तर दें। प्रत्येक प्रश्न 16 (सोलह) अंकों का है तथा उनका उत्तर 150-200 शब्दों के बीच होना चाहिए। इसके लिए इस पुस्तिका में लगे हुए सादे 5 (पाँच) पृष्ठों का ही उपयोग आवश्यक है। प्रत्येक प्रश्न का उत्तर एक नए पृष्ठ से, प्रश्न संख्या लिखकर शुरू करें।

1. Who among the following is a Sanskrit Mahakavi ?

- (1) Ashvaghosh (2) Keshavadas (3) Bihari (4) Mammata
निम्नलिखित में से कौन संस्कृत महाकवि हैं ?
(1) अश्वघोष (2) केशवदास (3) बिहारी (4) मम्मट

2. Who collected the poems of *Gahasattasai* ?

- (1) Bilhana (2) Kalhana (3) Udbhata (4) Haala
'गाहासत्तसई' इस काव्यग्रन्थ के संग्रहकर्ता कौन हैं ?
(1) बिल्हण (2) कल्हण (3) उद्भट (4) हाल

3. Who among the following introduced the theory of *Katharsis* in the western poetics ?

- (1) Socrates (2) Aristotle (3) Colaridge (4) T. S. Eliot
पाश्चात्य काव्यशास्त्र में 'विरेचन सिद्धान्त' का प्रवर्तन निम्नलिखित में से किसने किया ?
(1) सुकरात (2) अरस्तू (3) कोलरिज (4) टी० एस० इलियट

4. Which of the following is the work of famous Egyptian critic and poet Hores ?

- (1) Peri Poetics (2) Ars Poetica
(3) Biographia Literaria (4) Capital
निम्नलिखित में से कौन मिस्र के प्रसिद्ध समालोचक तथा कवि होरेस की कृति है ?
(1) पेरी पोएटिक्स (2) आर्स पोएटिका
(3) बायोग्राफिया लिटरेरिया (4) कैपिटल

5. *Ishavasyopnishad* is the part of which of the following Vedas ?

- (1) Shukla Yajurveds Samhita (2) Krishna Yajurveda Samhita
(3) Rigveda (4) Samaveda
'ईशावास्योपनिषद्' निम्नलिखित में से किस वेद का हिस्सा है ?
(1) शुक्लयजुर्वेद संहिता (2) कृष्णयजुर्वेद संहिता
(3) ऋग्वेद (4) सामवेद

6. *Shabarbhasya* is the book related to which philosophy ?

- (1) Nyaya (2) Yoga (3) Mimamsa (4) Vaishesika

शाबरभाष्य किस दर्शन का ग्रन्थ है ?

- (1) न्याय (2) योग (3) मीमांसा (4) वैशेषिक

7. Who propounded the theory of *Vishishtadvaitavads* and *Dvaitadvaitvada* ?

- (1) Ramanuja and Nimbarka (2) Nimbarka and Madhvacharya
(3) Ramanuja and Vallabha (4) Nimbarka and Ramanuja

निम्नलिखित में कौन क्रमशः विशिष्टाद्वैतवाद तथा द्वैताद्वैतवाद के प्रवर्तक आचार्य हैं ?

- (1) रामानुज तथा निम्बार्क (2) निम्बार्क तथा मध्वाचार्य
(3) रामानुज और वल्लभ (4) निम्बार्क और रामानुज

8. Who wrote the commentary *Mitakshara* on *Yajnavalkyasmriti* ?

- (1) Vijnanabhikshu (2) Vijnanesvara (3) Vijnanasuri (4) Yaska

याज्ञवल्क्यस्मृति पर 'मिताक्षरा' टीका के रचयिता कौन हैं ?

- (1) विज्ञानभिक्षु (2) विज्ञानेश्वर (3) विज्ञानसूरि (4) यास्क

9. Select the correct order :

सही मिलान चुनिये :

- | | |
|-------------------------------|-------------------------------|
| 1. Pratimanatak/प्रतिमानाटक | (क) Vishakhadatta/विशाखदत्त |
| 2. Mudrarakshasa/मुद्राराक्षस | (ख) Bhattanarayana/भट्टनारायण |
| 3. Venisamhara/वेणीसंहार | (ग) Shudraka/शूद्रक |
| 4. Mrichchhakatika/मृच्छकटिक | (घ) Bhasa/भास |

- (1) 1 (घ) 2 (क) 3 (ख) 4 (ग) (2) 1 (क) 2 (ख) 3 (ग) 4 (घ)
(3) 1 (क) 2 (घ) 3 (ख) 4 (ग) (4) 1 (घ) 2 (क) 3 (ग) 4 (ख)

10. Complete name of Urdu and Persian poet 'Ghalib' is :

- (1) Mirza Asadullah Khan Ghalib (2) Asadullah Khan Ghalib
(3) Mirza Khan Asadullah Ghalib (4) Ghalib Khan Asadullah

उर्दू तथा फ़ारसी भाषा के कवि 'गालिब' का पूरा नाम है :

- (1) मिर्जा असदुल्लाह खान गालिब (2) असदुल्लाह खान गालिब
(3) मिर्जा खान असदुल्लाह गालिब (4) गालिब खान असदुल्लाह

11. The radius of convergence of the power series,

$$1 + \frac{a \cdot b}{1 \cdot c} z + \frac{a(a+1)b(b+1)}{1 \cdot 2c(c+1)} z^2 + \dots,$$

where a, b, c being complex numbers is :

- (1) 1 (2) 2 (3) 3 (4) 4

12. The function $f(z) = \sin\left\{z\left(z + \frac{1}{z}\right)\right\}$ has been expanded in the following series,

$$f(z) = a_0 + \sum_{n=1}^{\infty} a_n \left(z^n + \frac{1}{z^n}\right),$$

where $a_n, n \geq 1$, are given by :

(1) $a_n = \frac{1}{2\pi} \int_0^{2\pi} \sin(2 \cos \theta) \cos n\theta d\theta$

(2) $a_n = \frac{1}{2\pi} \int_0^{2\pi} \sin(4 \cos \theta) \cos n\theta d\theta$

(3) $a_n = \frac{1}{2\pi} \int_0^{2\pi} \sin(\cos \theta) \cos n\theta d\theta$

(4) $a_n = \frac{1}{2\pi} \int_0^{2\pi} \sin(4 \sin \theta) \cos n\theta d\theta$

13. Which of the following subsets of real numbers \mathbb{R} does not have the Cardinal number \mathbb{C} ?

- (1) $\{x \in \mathbb{R} : 0 < x < 1\}$
(2) $\{x \in \mathbb{R} : 0 \leq x < 2\}$
(3) $\{x \in \mathbb{R} : x \geq 0\}$
(4) $\{x : x \in \mathbb{N} = \text{Set of natural numbers}\}$

14. For a measure space (X, s, μ) , which of the following statements is not true ?

(1) If $\{A_n\}_{n=1}^{\infty}$ is a sequence of pairwise disjoint measurable subsets of X , then

$$\mu\left(\bigcup_{n=1}^{\infty} A_n\right) = \sum_{n=1}^{\infty} \mu(A_n)$$

(2) $\mu(\phi) = 0$ where ϕ is a null set

(3) If $A, B \in s$, $A \subseteq B$, then $\mu(A) \leq \mu(B)$

(4) If $\{B_n\}_{n=1}^{\infty}$ is a sequence of subsets of X , then

$$\mu\left(\bigcup_{n=1}^{\infty} B_n\right) = \sum_{n=1}^{\infty} \mu(B_n)$$

15. If $\sum_{n=0}^{\infty} a_n$ and $\sum_{n=0}^{\infty} b_n$ are each convergent series of real numbers then their

Cauchy's product series $\sum_{n=0}^{\infty} c_n$, where

$$c_n = \sum_{k=0}^n a_k b_{n-k}, \quad n \geq 0, \text{ is :}$$

(1) convergent but not absolutely convergent

(2) absolutely convergent

(3) not convergent

(4) divergent if $\sum_{n=0}^{\infty} a_n$ is absolutely convergent

16. Which of the following statements is not true ?

(1) If X is a non-empty set and $P(X)$ is a power set of X then $(X, P(X))$ is a topological space

(2) If X is a non-empty set and $T = \{\phi, X\}$ then $\{X, T\}$ is a topological space

(3) If X is an infinite set and $T = \{Y \subseteq X : Y \text{ is an empty set or } Y' \text{ is finite}\}$, then (X, T) is a topological space

(4) If $X = \{a, b, c\}$ and $T = \{\phi, X, \{a, b\}, \{a, c\}\}$, then (X, T) is a topological space

17. The number of elements of order 5 in the group $\mathbb{Z}_{25} \oplus \mathbb{Z}_5$ are :
- (1) 5 (2) 16 (3) 20 (4) 24
18. How many elements belong to the field $\mathbb{Z}[i]/\langle 2+i \rangle$, where $\mathbb{Z}[i]$ is the ring of Gaussian integers and $\langle 2+i \rangle$ is the ideal of $\mathbb{Z}[i]$ generated by $2+i$?
- (1) 2 (2) 5 (3) 7 (4) infinite
19. What is the smallest positive integer n such that there are four non-isomorphic abelian groups of order n ?
- (1) 24 (2) 36 (3) 48 (4) 64
20. Which of the following statement is correct ? In the ring of Gaussian integers $\mathbb{Z}[i]$:
- (1) 3 and 2 are irreducible elements, but 5 is not irreducible
(2) 3 and 5 are irreducible elements, but 2 is not irreducible
(3) 3 is an irreducible element but 2 and 5 are not irreducible
(4) 5 is an irreducible element but 3 and 2 are not irreducible
21. The degree of the splitting field of the polynomial $x^6 + 1$ over the field of rationals \mathbb{Q} is :
- (1) 3 (2) 8 (3) 6 (4) 4
22. If A is a nilpotent matrix, then A is similar to :
- (1) a diagonal matrix
(2) a scalar matrix
(3) a triangular matrix
(4) a triangular matrix whose entries on the main diagonal are all zero
23. If the motion of a fluid is irrotational, then the velocity vector \vec{q} satisfies the condition :
- (1) $\text{div } \vec{q} = 0$ (2) $\text{div } \vec{q} \neq 0$ (3) $\text{curl } \vec{q} = 0$ (4) $\text{curl } \vec{q} \neq 0$

24. The degree of freedom of a rigid body in motion with its two points fixed is :
 (1) 1 (2) 2 (3) 3 (4) 4
25. If at any point of a straight line, a system of forces acting at different points of a rigid body can be reduced to a single force and a single couple in which the axis of the couple coincides with the direction of the force, then the line is called :
 (1) Pitch (2) Central axis (3) Wrench (4) Screw
26. Among all the curves joining two given points $A(x_0, y_0)$ and $B(x_1, y_1)$, the one which generates the surface of minimum area when rotated about the x -axis is :
 (1) cycloid (2) parabola (3) hyperbola (4) catenary
27. If a rigid body is rotating about one of its own fixed point under no forces, then throughout the motion :
 (1) its kinetic energy remains constant but the angular momentum varies
 (2) both its kinetic energy and angular momentum vary
 (3) its kinetic energy varies but the angular momentum remains constant
 (4) both its kinetic energy and angular momentum remain constant
28. In the Hamiltonian formulation of a dynamical system, the equations of motion are in terms of :
 (1) one set of second order differential equations
 (2) one set of first order differential equations
 (3) two sets of second order differential equations
 (4) two sets of first order differential equations
29. The integral equation given by :
- $$u(x) = f(x) + \int_a^b k(x, \xi)u(\xi)d\xi$$
- is known as :
 (1) Volterra integral equation of the first kind
 (2) Fredholm integral equation of the first kind
 (3) Volterra integral equation of the second kind
 (4) Fredholm integral equation of the second kind

35. Suppose that a curve $\alpha : [0, 4] \rightarrow \mathbb{R}^3$ is given by

$$\alpha(t) = (t - 3, \sqrt{t}, t\sqrt{t})$$

If $\phi : [0, 2] \rightarrow [0, 4]$ is given by

$$\phi(u) = u^2,$$

then the reparametrization β of the curve α by the map ϕ is :

- (1) $\beta(u) = (u^2 + 3, u^2, -3u^2)$ (2) $\beta(u) = (u^2 - 3, u, u^3)$
 (3) $\beta(u) = (u^2 - 3, u^2, u^3)$ (4) $\beta(u) = (u, u^2, u^3)$

36. Let $\alpha(s) = (r \cos ws, r \sin ws, hws)$ be a unit speed circular helix with

$$w = \frac{1}{\sqrt{r^2 + h^2}}.$$

then :

- (1) $k(s) = w^2 r, \quad \tau(s) = h^2 r$ (2) $k(s) = r^2 w, \quad \tau(s) = h^2 w$
 (3) $k(s) = w^2 r, \quad \tau(s) = w^2 h$ (4) $k(s) = h^2 r, \quad \tau(s) = h^2 w$

37. Which of the following statement is true for the cylinder ?

$$C^2 = \{(x, y, z) \in \mathbb{R}^3 \mid x^2 + y^2 = 1\}$$

and the sphere

$$S^2 = \{(x, y, z) \in \mathbb{R}^3 \mid x^2 + y^2 + z^2 = 1\} ?$$

- (1) C^2 and S^2 cannot be covered by a single surface patch
 (2) C^2 and S^2 can be covered by a single surface patch
 (3) C^2 cannot be covered by a single surface patch but S^2 can be covered by a single surface patch
 (4) C^2 can be covered by a single surface patch but S^2 cannot be covered by a single surface patch

38. The set of all straight lines in the Euclidean plane is a C^∞ manifold of dimension :

- (1) one (2) two (3) three (4) four

39. Consider the function

$$\alpha : \mathbb{R} \rightarrow \mathbb{R}^2$$

given by

$$\alpha(t) = (t^3 - 4t, t^2 - 4)$$

then :

- (1) α is an embedding with self intersection for $t = -2$ and $t = 2$, but α is not an immersion
 - (2) α is an immersion but it is not an embedding
 - (3) α is a submersion but not an immersion
 - (4) α is an embedding but not a submersion
40. Let $f: M_1 \rightarrow M_2$ and $g: M_2 \rightarrow M_3$ be C^∞ maps on C^∞ manifolds. Then the Jacobian maps of f and g :
- (1) are linear and satisfy the chain rule
 - (2) are linear but fail to satisfy the chain rule
 - (3) are non-linear and satisfy the chain rule
 - (4) are non-linear but fail to satisfy the chain rule

Attempt any five questions. Write answer in 150-200 words. Each question carries 16 marks. Answer each question on separate page, after writing Question Number.

किन्हीं पाँच प्रश्नों के उत्तर 150-200 शब्दों में दीजिए। प्रत्येक प्रश्न 16 अंकों का है। प्रत्येक प्रश्न का उत्तर अलग पृष्ठ पर प्रश्न संख्या लिखकर शुरू करें।

1. Show that a subset of a topological space is closed if and only if it contains its boundary.
2. Prove that B, B' are Banach spaces over $k (= \mathbb{R} \text{ or } \mathbb{C})$ and T is a linear transformation of B into B' then T is continuous \iff its graph is closed.
3. Show that any field F of characteristic zero is a perfect field.
4. If N is a submodule of an R -module M such that N and M/N both are noetherian then show that M is noetherian.
5. Verify whether or not the transformation

$$P = \frac{1}{2}(p^2 + q^2), \quad Q = \tan^{-1}\left(\frac{q}{p}\right)$$

is a contact transformation ?

6. For an incompressible homogeneous fluid, the velocity distribution at the point (x, y, z) is given by

$$u = -\left(c^2 y / r^2\right),$$

$$v = \left(c^2 x / r^2\right),$$

$$w = 0.$$

Where r denotes the distance from the z -axis. Show that it is a possible motion and determine the surface which is orthogonal to stream-lines.

7. Reduce the initial value problem

$$\frac{d^2 y}{dx^2} = \lambda y(x) + g(x)$$

$$y(0) = 1, y'(0) = 0$$

into Volterra integral equation of the second kind.

8. Prove that the solutions of the Dirichlet problem depend continuously on the boundary data.

9. Consider the sphere

$$S^2(1) = \left\{ (x^1, x^2, x^3) \in \mathbb{R}^3 / (x^1)^2 + (x^2)^2 + (x^3)^2 = 1 \right\}$$

consider the collection

$$A = \{(\phi_N, U_N), (\phi_S, U_S)\},$$

where

$$U_N = S^2(1) - \{(0, 0, 1)\},$$

$$U_S = S^2(1) - \{(0, 0, -1)\}$$

and

$$\phi_N : U_N \rightarrow \mathbb{R}^2 \text{ and } \phi_S : U_S \rightarrow \mathbb{R}^2$$

are the stereographic projections. Then prove that A is an atlas for $S^2(1)$.

10. Let M be a Riemannian manifold with its Riemannian connection ∇ . Then prove that the Hessian Hf of a C^∞ function f on M is given by

$$(Hf)(X, Y) = \langle \nabla_X(\text{grad } f), Y \rangle, X, Y \in TM$$

Roll No. :

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FOR ROUGH WORK/रफ़ कार्य के लिए

अभ्यर्थियों के लिए निर्देश

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

1. प्रश्न पुस्तिका मिलने के 10 मिनट के अन्दर ही कृपया 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।
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 संख्या और ओ० एम० आर० पत्र संख्या 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 40 बहुविकल्पीय तथा 10 लघु उत्तरीय प्रश्न हैं। प्रत्येक बहुविकल्पीय 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। किन्हीं पाँच लघु उत्तरीय प्रश्नों के उत्तर के लिए प्रश्न पुस्तिका के अन्त में पाँच खाली पृष्ठ दिये गये हैं।
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. रफ कार्य के लिये इस पुस्तिका के मुखपृष्ठ के अंदर वाला पृष्ठ तथा अंतिम खाली पृष्ठ का प्रयोग करें।
12. परीक्षा के उपरान्त दोनों ओ० एम० आर० उत्तर-पत्र एवं प्रश्न पुस्तिका परीक्षा भवन में जमा करें।
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।