



समय : 3 घण्टे 15 मिनट  
नोट : प्रारम्भ के 15 मिनट परीक्षार्थियों को प्रश्न-पत्र पढ़ने के लिए निर्धारित है।

- सामान्य निर्देश :
- इस प्रश्न-पत्र में कुल 9 प्रश्न हैं।
  - सभी प्रश्न अनिवार्य हैं।
  - प्रत्येक प्रश्न के प्रारम्भ में स्पष्टता: लिखा दिया गया है कि उसके कितने खण्ड करने हैं।
  - प्रश्नों के अंक उनके सम्मुख अंकित हैं।
  - प्रथम प्रश्न से प्रारम्भ कीजिए और अन्त तक करते जाएँ।
  - जो प्रश्न का उत्तर हो, उस पर समय नष्ट मत कीजिए।

1. निम्नलिखित सभी खण्डों को हल कीजिए—
- (क) एक सम्बन्ध  $R = \{(x, y) : x, y \in A \text{ और } x < y\}$  समुच्चय  $A = \{1, 2, 3, 4, 5\}$  पर परिभाषित है, सम्बन्ध  $R$  है—  
(a) सम्बन्ध (b) सममित  
(c) संक्रमक (d) तुल्यता
- (ख)  $Z = 5x + 3y$  का अधिकतम मान है, जबकि अवरोध निम्न है—  
 $x + 3y \leq 5$   
 $x + y \leq 3$   
 $x \geq 0$   
 $y \geq 0$   
(a)  $x = 3, y = 0, z = 15$  (b)  $x = 0, y = 0, z = 0$   
(c)  $x = 2, y = 1, z = 13$  (d)  $x = 0, y = 5/3, z = 5$

- (ग)  $\int \frac{e^{2x}-1}{e^{2x}+1} dx$  का मान है—  
(a)  $\log(e^{2x}+1)+c$  (b)  $\log(1+e^{2x})+c$   
(c)  $\log(e^x-e^x)+c$  (d)  $\log(e^x+e^x)+c$
- (घ) वक्र  $x = 0 + \sin \theta, y = 1 + \cos \theta$  के बिन्दु  $\theta = \pi/4$  पर स्पर्श रेखा का समीकरण है—

- (a)  $y = (1 + \sqrt{2})x + \frac{(\sqrt{2}-1)\pi}{4} + 2$   
(b)  $y = (1 - \sqrt{2})x + \frac{(\sqrt{2}-1)\pi}{4} + 2$   
(c)  $y = (1 + \sqrt{2})x + (\sqrt{x}-1)\pi$   
(d) इनमें से कोई नहीं
- (ङ) यदि  $a$  तथा  $b$  दो वीरज सदिश हैं, तो निम्नलिखित में कौन-सा कथन सही नहीं है ?  
(a)  $\vec{a} = 2\vec{b}$  किसी अदिश  $\lambda$  के लिए  
(b)  $\vec{a} = \pm \vec{b}$   
(c)  $\vec{a}$  तथा  $\vec{b}$  के क्रान्तल घटक सम्बन्धित नहीं हैं।  
(d) दोनों सदिशों  $\vec{a}$  तथा  $\vec{b}$  की दिशा समान है परन्तु परिमाण विभिन्न हैं।

2. निम्नलिखित सभी खण्डों को हल कीजिए—
- (क)  $\sin^{-1}\left(\sin \frac{7\pi}{4}\right)$  का मुख्य मान ज्ञात कीजिए।
- (ख)  $K$  के किस मान के लिए फलन  $f(x) = \begin{cases} \frac{x^2-16}{x-4} & , x \neq 4 \\ K & , x = 4 \end{cases}$  पर सतत है।
- (ग) समीकरण  $2x \frac{d^2y}{dx^2} + 3 \frac{dy}{dx} - 5 = 0$  की कोटि बताइये।
- (घ) एक व्यापार की  $x$  इकाइयों के विक्रय से प्राप्त कुल आय रुपये में  $R(x) = 3x^2 + 36x + 5$  से प्रदत्त है। यदि  $x = 15$  हो तो सीमांत आय ज्ञात कीजिए।
- (ङ) यदि  $P(A) = 1/2, P(B) = 1/3, P(A/B) = 1/4$  हो तो  $P(A' \cap B')$  का मान ज्ञात कीजिए।

3. निम्नलिखित सभी खण्डों को हल कीजिए—
- (क) संख्या 6 के ऐसे दो भाग कीजिए कि उनके वर्गों का योग निम्नलिखित हो :  
(ख)  $\int x^3 \cos x dx$  का मान ज्ञात कीजिए।
- (ग) यदि सदिश  $\vec{a} = 3\hat{i} - 4\hat{j} + 5\hat{k}$  तथा  $\vec{b} = \hat{i} - \hat{k}$  है, तो  $|\vec{a} + \vec{b}|$  का मान ज्ञात कीजिए।
- (घ) एक घन को दो बार उलटा जाता है तथा अंकों का योग 6 आता है। संख्या 4 के कान से कान एक बार आने की प्रायिकता ज्ञात कीजिए।

4. निम्नलिखित सभी खण्डों को हल कीजिए—
- (क) यदि  $y = \sqrt{\sin x + \cos x} + \sqrt{\sin x - \cos x} + \sqrt{\sin x + \cos x} + \dots + \infty$  हो  $\frac{dy}{dx}$  का मान ज्ञात कीजिए।
- (ख) सदिश  $2\hat{i} - \hat{j} + 2\hat{k}$  के अनुदिश 2 इकाई लम्बाई का सदिश ज्ञात कीजिए।
- (ग) दर्शाइये कि बिन्दु  $(2, 3, 4), (-1, -2, 1)$  तथा  $(5, 8, 7)$  वीरज हैं।
- (घ) एक व्यक्ति  $A$ , 75% विद्यार्थियों में तथा दूसरा व्यक्ति  $B$ , 80% विद्यार्थियों में सफल होता है। कितने प्रतिशत विद्यार्थियों में वे एक दूसरे का विरोध करते हैं ?

5. निम्नलिखित में से किसी भी दो खण्डों को हल कीजिए—
- (क) यदि  $A = \begin{bmatrix} 1 & 3 & 2 \\ 2 & 6 & 3 \\ 1 & -1 & 1 \end{bmatrix}$ , तो  $A^3 - 2A^2 + A - I$ , का मान ज्ञात करें।
- (ख) सिद्ध कीजिए कि—  
$$\begin{vmatrix} 1 & 1 & 1 \\ x & y & z \\ x^2 & y^2 & z^2 \end{vmatrix} = (x-y)(y-z)(z-x)$$
- (ग)  $\int \frac{\cos x dx}{(2 + \sin x)(1 + \sin x)}$  का मान ज्ञात कीजिए।
- (घ) उस बिन्दु के निर्देशांक ज्ञात कीजिए जहाँ रेखा  $\frac{x-1}{-2} = \frac{y-2}{3} = \frac{z+5}{-4}$  रज  $2x + 4y - z - 3$  से मिलती है।
- (ङ) दो मंद एक पासा से निम्न प्रतिस्पर्धा किए निकाली जाती हैं : बीरज में 10 कानों और 8 कानों में तो प्रतिस्पर्धा ज्ञात कीजिए यदि (i) दोनों मंद कानों (ii) प्रथम कानों एवं दूसरी कानों (iii) एक कानों तथा दूसरी कानों।
- (घ)  $\tan^{-1}\left(\frac{2x}{1-x^2}\right)$  का  $\cos^{-1}\left(\frac{1-x^2}{1+x^2}\right)$  के सापेक्ष अवकल गुणांक ज्ञात कीजिए।

6. निम्नलिखित में से किसी भी दो खण्डों को हल कीजिए—
- (क) यदि  $y = \sec x + \tan x$  तो सिद्ध कीजिए कि  $\frac{d^2y}{dx^2} = \frac{\cos x}{(1 - \sin x)^2}$
- (ख) सिद्ध कीजिए कि परवलय  $y^2 = 4ax$  का इसके नाभिलम्ब से दिय क्षेत्रफल  $8/3 a^2$  होता है।
- (ग) सदिश विधि से सिद्ध कीजिए कि अष्टक में बन्द कोण सम्बन्ध होता है।
- (घ) बिन्दुओं  $(1, 1, 2), (2, 3, 5)$  तथा  $(1, 5, 5)$  से जाने वाले बिन्दु के समतल के समकतु इकाई सदिश ज्ञात कीजिए।
- (ङ) तीन छात्र किसी परीक्षा में बैठते हैं। यदि उनके उत्तीर्ण होने की प्रायिकता क्रमशः  $\frac{1}{3}, \frac{1}{4}, \frac{1}{5}$  हो, तो उनमें से कम-से-कम दो के परीक्षा में उत्तीर्ण होने की प्रायिकता ज्ञात कीजिए।
- (घ) एक कम्प्यूटर निर्माता कम्पनी दो प्रकार के कम्प्यूटर बेचने की योजना बनाती है। कम्पनी अपने कम्प्यूटर  $A$  के लिए ₹ 25,000 तथा कम्प्यूटर  $B$  के लिए ₹ 40,000 निर्धारित करती है। कम्पनी को अनुमान है कि कम्प्यूटरों की माँग कम से अधिक 250 वर्षों से अधिक नहीं होगी। प्रत्येक प्रकार के कम्प्यूटरों के वर्षों की संख्या ज्ञात कीजिए जिसे कम्पनी अधिकतम लाभ प्राप्त करने के लिए संभल करे। यदि कम्पनी के पास निवेशित रजिस्टर ₹ 70 लाख है तथा कम्प्यूटर  $A$  पर उसका लाभ ₹ 4500 तथा कम्प्यूटर  $B$  पर उसका लाभ ₹ 5,000 हो।

7. निम्नलिखित में से किसी एक खण्ड को हल कीजिए—
- (क) प्राथमिक वीरज सन्तान्तों के प्रयोग से आयुष्ट  $A = \begin{bmatrix} 2 & -3 & 3 \\ 2 & 2 & 3 \\ 3 & -2 & 2 \end{bmatrix}$  का घुक्कण ज्ञात कीजिए।
- (ख) आयुष्ट विधि से हल कीजिए—  
 $2x + y + z = 1$   
 $x - 2y - 3z = 1$   
 $3x + 2y + 4z = 5$
8. निम्नलिखित में से किसी एक खण्ड को हल कीजिए—
- (क) (i) सिद्ध कीजिए कि फलन  $f: R \rightarrow R$ , जहाँ  $R$  सभी वास्तविक संख्याओं का समुच्चय है तथा  $f(x) = 3x + 4$ , एकैकी तथा आच्छादक फलन है।  
(ii) यदि  $\tan^{-1} \frac{x-1}{x-2} + \tan^{-1} \frac{x+1}{x+2} = \frac{\pi}{4}$  तो  $x$  का मान ज्ञात कीजिए।
- (ख) समकालन का उपयोग करते हुए एक ऐसे बिन्दु का क्षेत्रफल ज्ञात कीजिए जिसके शीर्ष  $(-1, 0), (1, 3)$  तथा  $(3, 2)$  हैं।
9. निम्नलिखित में से किसी एक खण्ड को हल कीजिए—
- (क) अवकल समीकरण  $y dx + x \log\left(\frac{y}{x}\right) dx - 2x dy = 0$  को हल कीजिए।
- (ख) (i) उन सभी सरल रेखाओं के लिए, जो मूल बिन्दु से इकाई दूरी पर हैं, अवकल समीकरण ज्ञात कीजिए।  
(ii) मूल बिन्दु  $(-2, 3)$  से गुजरने वाले ऐसे वक्र का समीकरण ज्ञात कीजिए जिसके किसी बिन्दु  $(x, y)$  पर स्पर्श-रेखा की प्रकृता  $\frac{2x}{y^2}$  है।

इन बातों का पढ़ते ध्यान

- प्रश्नों को हल करते समय ध्यान देना।
- प्रश्नों को हल करते समय प्रत्येक पद को स्पष्ट लिखें।
- सफल सुविधा को एक साथ लिखकर पढ़ करें।
- परीक्षा से पूर्व लम्बा पढ़ें। परीक्षा कक्ष में सम्पन्न से बैठें तथा साधनाधीनता: प्रश्न-पत्र हल करें।
- अन्त में एक कार्य को कर दें।
- सभी प्रश्नों को साधः एवं स्पष्ट हल करें।



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# Up Board 10th Model Question Paper 2014

**Oswal**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular gradient shape partially visible behind it.

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