



100+ MCQs | Railway Exams

[Top 50]

11. The value of 3×10^{16} is

- (A) 3×10^{16}
- (B) 3×10^6
- (C) 2×10^{16}
- (D) 2×10^7

Answer: (C)

12. The value of 2×10^{16} is

- (A) 2×10^{16}
- (B) 2×10^6
- (C) 1×10^{16}
- (D) 1×10^6

Answer: (B)

13. The value of 1×10^{16} is

- (A) 1×10^{16}
- (B) 1×10^6
- (C) 1×10^{16}
- (D) 1×10^6

Answer: (B)



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•• ŽŸ : (C) | , ^ - f s f ^ †, € „ š — , ... `` ¥ ^

14. • š `` 0 3 « < š E □ ¥ š , † • 0 p

(A) ^ †, € „ š — , ... š ^

(B) ^ †, € „ š — 0 0 — ^

(C) Ÿ 0 ^ a

(D) „ 0 « ^ • š E

œ • Ž Ÿ % q

•• ŽŸ : (B) ^ †, € „ š — 0 0 — ^

15. , • , f € † † - š « 0 , † - E š ~ 0 - š f € ° • † • œ

(A) ¬ „ 0 E - š

(B) , š 0 0 E - š

(C) • † ° 0 E - š

(D) ° f š ' 0 E - š

œ • Ž Ÿ % q

•• ŽŸ : (D) ° f š ' 0 E - š

16. • † , « E † † € š ² » « , € • † , € - š

(A) - % 0 - % 0 ± ² E 0 ^

(B) - % 0 ° ¥ , ... „

(C) ¬ `` ¥ Ž 0 ^

(D) Ž Ÿ Ž μ 0 ¥

œ • Ž Ÿ % q

•• ŽŸ : (C) ¬ `` ¥ Ž 0 ^

17. 1 € • f † E □ ^ a š š š • 0 p

(A) $6.25 \cdot 10^{18}$ ¶ □ % 0 ² ^

(B) $6.25 \cdot 10^2$ ¶ □ % 0 ² ^



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(C) $6.25 \cdot 10^{-18}$ μm^2

(D) $6.25 \cdot 10^{-2}$ μm^2

• Ž %q

•• ŽŸ : (A) $6.25 \cdot 10^{18}$ μm^2

18. € •• †š €• “, † ›¥€†š, <...’ € †• •œ

(A) $3^{1†} \ll \cdot \tilde{z}$

(B) $\cdot \tilde{y} \pm \pm' \cdot \tilde{z}$

(C) $0^2 \text{¢} @ \text{¢} \% \text{¢} ^ \neg, \tilde{z} - \pm \cdot \tilde{z}$

(D) „0« ^ •š£

• Ž %q

•• ŽŸ : (B) $\cdot \tilde{y} \pm \pm' \cdot \tilde{z}$

19. „€ ^š£ ´µš š šš •›†š •œ

(A) $3.6 \cdot 10^3$ „ ¢žš

(B) $3.6 \cdot 10^3$ - ¢

(C) 4.2 - ¢

(D) 1 H.P.

• Ž %q

•• ŽŸ : (B) $3.6 \cdot 10^3$ - ¢

20. €• •µ-š €š ž•→) • , €• €• ¯š f , <¥š’ ‘ € , f „ , €-š «š†š •¢

(A) “ „†»

(B) $\frac{1}{4} \dots, ^$

(C) ,...£†^

(D) „†« ^ •š£

• Ž %q



(B) $\alpha\beta\alpha$
(C) $\bullet\check{\alpha}\alpha\beta$
(D) $\wedge\check{\alpha}\alpha\beta$

- • • **žŸ** : (B) $\alpha \neq \alpha$

(A) $\ddot{\text{S}}^{\circ} \text{---} \text{---} \ddot{\text{I}}$
 (B) $\text{I} \text{---} \text{---} \text{---} \text{---} \text{---} \text{---} \text{---} \text{---} \ddot{\text{S}}^{\circ}$
 (C) $\text{I} \text{---} \text{---} \text{---} \text{---} \text{---} \text{---} \text{---} \text{---} \ddot{\text{S}}^{\circ}$
 (D) $\ddot{\text{S}}^{\circ} \text{---} \text{---} \text{---} \text{---} \text{---} \text{---} \text{---} \text{---} \text{I}$

• • žŸ : (C) Á—, · f „ž‘ „†

(A) 0 ¥†—CÂ~Ž
(B) 1 ¥†—CÂ~Ž
(C) 2 ¥†—CÂ~Ž
(D) 3 ¥†—CÂ~Ž

•• žŸ : (A) 0 ¥‡—Ĉ~Ž

(A) $\tilde{A} \propto \frac{1}{r^2}$
 (B) $\bullet \dot{s}, \alpha - E$
 (C) $- \alpha \dots \ddot{A} \cdot {}^\circ E^{\wedge \dagger}$
 (D) $\dots \dagger \sim \forall \dagger \Pi \text{ } \breve{A} \cdot \phi \dagger \Pi \forall$



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••žŸ : (A) Āā,, ‘

28. •š»€ f ,€•€š”€šÁ •œ

- (A) œ - †’
- (B) Ÿ†¹
- (C) ,,†—’
- (D) ¹ā

œ •ž Ÿ%q

••žŸ : (B) Ÿ†¹

29. “€š³ €• •,†,€•œš” ••«š†••, —œŸœ •••°

- (A) ,,†°
- (B) ,^...†f
- (C) - ā
- (D) ...†—Š

œ •ž Ÿ%q

••žŸ : (A) ,,†°

30. •~’€•ž%œš•Ā^• •œ•••Ā†• •œ

- (A) °†ā^ Āž†
- (B) ,,,,„ž ‘ Āž†
- (C) €£•^ Āž†
- (D) •ž†...f^ Āž†

œ •ž Ÿ%q

••žŸ : (B) ,,,,„ž ‘ Āž†

31. Ā•« £ £ ¬œš»££ €š €š—’•œ°



(A) $f \vdash \bullet \text{E}^{\dagger} \wedge \neg \text{Z}^{\dagger}$
 (B) $\bullet \text{E}^{\dagger} \wedge f \vdash \bullet \text{C}^{\dagger} \text{I}^{\dagger}$
 (C) $\neg \wedge \text{C}^{\dagger} \text{E}^{\dagger} f \vdash \bullet \text{C}^{\dagger} \text{I}^{\dagger} \rightarrow \text{Z}^{\dagger}$
 (D) $\text{E}^{\dagger} \wedge \text{E}^{\dagger} \bullet \text{E}^{\dagger} \text{I}^{\dagger}$

••žŸ : (C) ¬,, €£†^ f†• „© 1^†-‰_ ^†

(A) 100 Ê F
(C) 232 Ê F
(B) 104 Ê F
(D) 212 Ê F

•• žŸ : (D) 212 Ê F

(A) 273 K
(B) 100 K
(C) 373 K
(D) 0 K

••• $\ddot{Z}\ddot{Y} : (A) 273\text{ K}$

(A) $\nabla \cdot \mathbf{f} \in C^0(\bar{\Omega})$
 (B) $\hat{u} \in C^0(\bar{\Omega})$
 (C) $- \Delta u \in C^0(\bar{\Omega})$
 (D) $\nabla \cdot \mathbf{f} \in C^0(\bar{\Omega})$

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... $\frac{1}{2}$: (A) $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$

35. $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{32}$, $\frac{1}{64}$, $\frac{1}{128}$, $\frac{1}{256}$

- (A) $\frac{1}{4}$
- (B) $\frac{1}{8}$
- (C) $\frac{1}{16}$
- (D) $\frac{1}{32}$

... $\frac{1}{2}$ $\frac{1}{4}$

... $\frac{1}{2}$: (A) $\frac{1}{4}$

36. $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{32}$, $\frac{1}{64}$, $\frac{1}{128}$, $\frac{1}{256}$

- (A) $\frac{1}{5}$
- (B) $\frac{1}{15}$
- (C) $\frac{1}{10}$
- (D) $\frac{1}{20}$

... $\frac{1}{2}$ $\frac{1}{4}$

... $\frac{1}{2}$: (C) $\frac{1}{10}$

37. $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{32}$, $\frac{1}{64}$, $\frac{1}{128}$, $\frac{1}{256}$

- (A) $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{32}$, $\frac{1}{64}$, $\frac{1}{128}$, $\frac{1}{256}$
- (B) $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{32}$, $\frac{1}{64}$, $\frac{1}{128}$, $\frac{1}{256}$
- (C) $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{32}$, $\frac{1}{64}$, $\frac{1}{128}$, $\frac{1}{256}$
- (D) $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{32}$, $\frac{1}{64}$, $\frac{1}{128}$, $\frac{1}{256}$

... $\frac{1}{2}$ $\frac{1}{4}$

... $\frac{1}{2}$: (A) $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{32}$, $\frac{1}{64}$, $\frac{1}{128}$, $\frac{1}{256}$

38. $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{32}$, $\frac{1}{64}$, $\frac{1}{128}$, $\frac{1}{256}$

- (A) $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$, $\frac{1}{32}$, $\frac{1}{64}$, $\frac{1}{128}$, $\frac{1}{256}$



(B) $\dot{E} \sim -\frac{1}{r^2}$
 (C) $\dot{I} \propto \frac{1}{r^2}$
 (D) $\dot{I} \propto \frac{1}{r}$

39. —, ~ Ê f • • „ € Ě —, Ć ‡ • » — Š Ć • ~ Ě —, Ć ‡ Š Ć « Š „ ‡ » « ‡ Ć Š f •

(A) ¹ Ç - ‡ — % ‡

(B) É ~ - ‡ — % ‡

(C) † • , Ž ... , f ′ Ž • % ‡

(D) „ © « ^ • Š £

œ • Ž Ÿ % q

40. , • @!© • !@fE €Š □ ^ ‡ €Š f • ‡Š • @
(A) 1 ¢%¥
(B) 2 ¢%¥
(C) 3 ¢%¥
(D) 4 ¢%¥
@ • Ž Ÿ%q

41. $\mathfrak{E}, {}^3\mathfrak{E}\mathfrak{S} \prec f \cdot \mathfrak{E} \ll f \mathfrak{E}\mathfrak{S} \mathfrak{Z} \cdot \cdot \cdot \ddagger \cdot \cdot \cdot \ddagger \mathfrak{S} \cdot \mathfrak{O}\mathfrak{E}$
 (A) $\mathfrak{I} \dots f \square$
 (B) $\mathfrak{O} \cdot \square$
 (C) $\mathfrak{O}\mathfrak{E} f \square$
 (D) „@« ^ •šE

$\mathfrak{O} \cdot \mathfrak{Z} \mathfrak{Y} \% \mathfrak{q}$



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••žŸ : (B) æ • □

42. ~™€š ' <ž^ š, ¥€ >><•• •ŖŖ ‡<š^ °

- (A) ¹Ç - ‡f‡ •'
- (B) É~ - ‡f‡ •'
- (C) † •ž..., f'f ž • f‡ •'
- (D) „@« ^ •š£

æ • ž Ÿ%q

••žŸ : (A) ¹Ç - ‡f‡ •'

43. •š •€> «š „€ š‡'€ £ ²š «š‡š •¢> £, <»€ • •>‡š •œ°

- (A) † ...f □
- (B) æ • □
- (C) ££f □
- (D) „@« ^ •š£

æ • ž Ÿ%q

••žŸ : (B) æ • □

44. ÅŖšÁ šŖ , ••~š-¢¢f- ~šš

- (A) ,É±ž ž • f‡ •'
- (B) É~ f‡ •'
- (C) ¹Ç f‡ •'
- (D) „@« ^ •š£

æ • ž Ÿ%q

••žŸ : (B) É~ f‡ •'

45. „€ šš š šš •>‡š •¢°

- (A) 10⁻⁵ •‡É „ □



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(B) 10^7 ,

(C) 10^5 ,

(D) 10^4 ,

• Ž Ÿ%q

•• ŽŸ : (C) 10^5 ,

46. , € •• ^ » † € \$ • š » € f ... š \$, ¥ € Ÿ € • » † š • €

(A) - □ □

(B) ... † - š □

(C) , ^ ... † f □

(D) „ @ « ^ • š E

• Ž Ÿ%q

•• ŽŸ : (C) , ^ ... † f □

47. • Â • € • \$ • • š - ~ € š € š ~ € € š < f • ... • • €

(A) 1/4

(B) 1/81

(C) 1/100

(D) 1/1000

• Ž Ÿ%q

•• ŽŸ : (B) 1/81

48. ... » - š - • Ž • • • Â • € - š » µ Ð - € € f • š † š • €

(A) 12 € † □

(B) 24 € † □

(C) 36 € † □

(D) 48 € † □

• Ž Ÿ%q



••žŸ : (B) 24 €£† £

49. •Ā•• ^š-££f•- ~šš €š €š ‘ •£

(A) ™šž...†,, î”

(B) •Ń...š ,,† •,ž ° £ ‘

(C) •Ń...š ,,† Éš”

(D) ,,£« ^ •š£

£ •ž Ÿ%q

••žŸ : (A) ™šž...†,, î”

50. •Ā•• €š Ńfš-£ ^• •£

(A) 15 ,,£š. / £%o

(B) 11.2 ,,£š. / £%o

(C) 21.1 ,,£š. / £%o

(D) 7.0 ,,£š. / £%o

£ •ž Ÿ%q

••žŸ : (B) 11.2 ,,£š. / £%o

51. «š £Ā ^»†ž• ••, šĀ «š†• •£†žž •€š...š •†š •£

(A) •,ž...f”»š□

(B) | •,ž...f”»š□

(C) »—

(D) ,,£« ^ •š£

£ •ž Ÿ%q

••žŸ : (A) •,ž...f”»š□

52. •Ÿ,£ •,† £,£-£ £,£ •£“,†•š,~†,£-š ¬š °



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- (A) —~^
(B) „%ž
(C) „²•ž, ^ „ ¢
(D) ™ˆž, ¢—^a

œ•ž Ÿ%q

••žŸ : (B) „%ž

53. „€ «£ ¨ˆˆ< ,€• ,•½šˆ • €š—'€ ‡š •œ

- (A) ...Ēfš, ‡ ¢žÒ '
(B) » , • f „ ‡ ¢žÒ '
(C) „ 0 'š— ĩ Éš' „ ‡ ¢žÒ '
(D) ž, „ ¢£% „ ‡ ¢žÒ '

œ•ž Ÿ%q

••žŸ : (D) ž, „ ¢£% „ ‡ ¢žÒ '

54. „€ :~ €> ĩœ« ••,€‡<•€> ' • Ą€<• š,¥€‡œ ĩœ« ~•• ‡— € •œ••

- (A) 0 Ē
(B) 90 Ē
(C) 45 Ē
(D) 60 Ē

œ•ž Ÿ%q

••žŸ : (C) 45 Ē

55. ^š—Ēp f Ą šš~ f >ˆˆ ‡œ•€š €š ' •œ

- (A) f‡•
(B) ...%
(C) Ÿ‡¹
(D) É^ž...

œ•ž Ÿ%q



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•• ŽŸ : (C) Ÿ†¹

56. •œ• Š ‘ŸŸ• •,†« Ž«Š,€••†Š• • ³— •>†• •œ

- (A) 0 Ê C
- (B) @ 273 Ê C
- (C) 100 Ê C
- (D) 100K

œ• Ž Ÿ%q

•• ŽŸ : (B) @ 273 Ê C

57. •Š••€Š †Š•œŠ••,€• †Š• †€ “—†† •> •€†Š •œ

- (A) 260 Ê C
- (B) 100 Ê C
- (C) 360 Ê C
- (D) 500 Ê C

œ• Ž Ÿ%q

•• ŽŸ : (C) 360 Ê C

58. “Éœ Òš Š,€• µ €Š, ^~f< Š,¥€Ÿœ •>†Š •œ

- (A) ¹Ä^š
- (B) □†□
- (C) ^†ZŸš
- (D) •Ž†

œ• Ž Ÿ%q

•• ŽŸ : (A) ¹Ä^š

59. ,€•• •œœ ŽŽ•—< È^,< † µ •~œ•>†• •œ

- (A) | ^Š¼—



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- (B) $\frac{1}{2} \sqrt{3}$
(C) $\frac{1}{2} \sqrt{3}$
(D) $\frac{1}{2} \sqrt{3}$
 $\frac{1}{2} \sqrt{3}$

••• $\frac{1}{2} \sqrt{3}$: (A) $\frac{1}{2} \sqrt{3}$

60. $\frac{1}{2} \sqrt{3}$: (A) $\frac{1}{2} \sqrt{3}$
(A) 0
(B) 30
(C) 60
(D) 45

$\frac{1}{2} \sqrt{3}$

••• $\frac{1}{2} \sqrt{3}$: (D) 45

61. $\frac{1}{2} \sqrt{3}$: (A) $\frac{1}{2} \sqrt{3}$
(A) $\frac{1}{2} \sqrt{3}$
(B) $\frac{1}{2} \sqrt{3}$
(C) $\frac{1}{2} \sqrt{3}$
(D) $\frac{1}{2} \sqrt{3}$

$\frac{1}{2} \sqrt{3}$

••• $\frac{1}{2} \sqrt{3}$: (D) $\frac{1}{2} \sqrt{3}$

62. $\frac{1}{2} \sqrt{3}$: (A) $\frac{1}{2} \sqrt{3}$
(A) $\frac{1}{2} \sqrt{3}$
(B) $\frac{1}{2} \sqrt{3}$
(C) Alfa
(D) $\frac{1}{2} \sqrt{3}$

$\frac{1}{2} \sqrt{3}$


$$\dots \ddot{Z} : (B) \rightarrow \tilde{\sigma}_2^2$$

(A) „š Ąšš

æ • ž Ÿ%oq

• • žŸ : (B) “ „ ‡ » ® fžEŸ¼—

(A) $\hat{A} \dots \ddot{\Pi} -$
 (B) $\cdot \ddot{E} \text{,,} \square$
 (C) $\text{,,} \textcircled{C} \ll \wedge \cdot \text{\textcircled{S}} E$
 (C) $\dots \ddot{\sim}$

æ • ž Ÿ%oq

••• ŽŸ : (A) Â...†¶ -

(A) 6 Ěšž
(B) 6 μš
(C) 100 ¢%š.
(D) 60 μš

œ • ž Ÿ%oq

- **žŸ** : (B) 6 μš~

(A) »† „ řš



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••žŸ : (B) $\frac{1}{2} \times 10^3$

70. $\frac{1}{2} \times 10^3$ is the value of $\frac{1}{2} \times 10^3$

- (A) $\frac{1}{2} \times 10^3$
- (B) $\frac{1}{2} \times 10^3$
- (C) $\frac{1}{2} \times 10^3$
- (D) $\frac{1}{2} \times 10^3$

••žŸ

••žŸ : (D) $\frac{1}{2} \times 10^3$

71. The value of $\frac{1}{2} \times 10^3$ is

- (A) 280K
- (B) 290K
- (C) 310 K
- (D) 300K

••žŸ

••žŸ : (C) 310 K

72. The value of $\frac{1}{2} \times 10^3$ is

- (A) 39 Ê C
- (B) -39 Ê C
- (C) 40 Ê C
- (D) 60 Ê C

••žŸ

••žŸ : (B) -39 Ê C

73. The value of $\frac{1}{2} \times 10^3$ is



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- (A) •†¶™ŒĚš~ž
(B) •†¶žŒĚš~ž
(C) ~„ŒĚš~ž
(D) ,•„^ŒĚš~ž

œ•žŸ%q

••žŸ : (B) •†¶žŒĚš~ž

74. ³¶€•f•œ

- (A) °fš„Œ%
(B) “†±,Œ„Œ%
(C) ŸŒ.fš—„Œ%
(D) „Œ«^•šŒ

œ•žŸ%q

••žŸ : (B) “†±,Œ„Œ%

75. “€š³ €••,†--œŸŒ•••°

- (A) ...†—šŒš-ž^%ž
(B) -□Œšž^%ž
(C) „†°Œšž^%ž
(D) ,^...†fŒšž^%ž

œ•žŸ%q

••žŸ : (C) „†°Œšž^%ž

76. †,††¬šf€šš—œš†•œ

- (A) □Œ%†
(B) f†°†
(C) Œ½—šŒ,^—Œ„†
(D) ¶Œ•†f„†

œ•žŸ%q



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••žŸ : 2(96\$%À Ůpú ó P à 73#3 36)4B °Q8BP ...BP...¿YB(Ů%cš6 žŸCPe••• žŸ :



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- (B) 90°
(C) 45°
(D) 180°

œ • ž Ÿ%oq

••• **žŸ** : (B) 90 Ê

81. »€£ €•¤, ^¼€š €•œ

- (A) 1#¥ »²
(B) ¿ ¶-Ë~š^
(C) ¥™αž
(D) μž,£°

œ • ž Ÿ%oq

••• žŸ : (A) 1#¥ »²

82. €±,»⌈€ ,€ ' >µ€• ²>« ,€ • <•€•-

- (A) $\neg \forall, \dots, \hat{\cdot} 1 \square \wedge \%_0$
 (B) $, \dots, \sim \check{z} \cdot \text{¢} \wedge \%_0$
 (C) $1 \hat{\cdot} \check{s} \check{z} \text{¢} \check{s} \wedge \%_0$
 (D) $,^2 \cdot \check{z}, \wedge, \text{¢} \wedge \%_0$

æ • ž Ÿ%oq

• • žŸ : (B) , ... , ~ž • ¢ ^%00

83. <š,...€•— , „¢£ >|£ ž«š'žž•—< •>‡• •œ

- (A) $\neg \exists f \in \mathcal{F} \neg A(f)$
 (B) $\neg \exists f \in \mathcal{F} A(f)$
 (C) $\neg \exists f, \dots \neg A(f)$
 (D) $\neg \exists f, \dots A(f)$

æ • ž Ÿ%oq



Exams : UPSC, SSC, Railway, Banking, Police Teaching, Defense & All Government Job Recruitment Exams
Study Material : Current Affairs, GK, General Studies, Reasoning, Mathematics, English, Hindi etc.

•• ŽŸ : (C) , ^-£\$ f , ... "¥^ £žž

84. €>ššÇ£ -60 žž• ,«ž € žš •œ

- (A) , „ž ‘
- (B) , „ž ‘
- (C) - , „ž ‘
- (D) X- , „ž ‘

œ • ž Ÿ%q

•• ŽŸ : (C) - , „ž ‘

85. •> ,«£ž£ €• ° »« ,€ • <•€• ¬• °

- (A) ¬"¥ž£ ^
- (B) °¥, ... „
- (C) ±²££ ^
- (D) žžžµœ¥'

œ • ž Ÿ%q

•• ŽŸ : (A) ¬"¥ž£ ^

86. „€ • š£š— °¥€ • f £, ^ ¹ž£ • ´£° •>žš •œ

- (A) , -£
- (B) ¦£°, ^-£ „ , œžž¥
- (C) ™£ „ „ž ¦ ³œ
- (D) £^š- ¥ž¥ Å • £ž¥

œ • ž Ÿ%q

•• ŽŸ : (B) ¦£°, ^-£ „ , œžž¥

87. \$,ž-šf€ €š fž ‘ •œ

- (A) œ×° •ž™³—fž



(B) $\hat{3} \cdot \check{3}^{\text{TM}3} - f \dagger$
 (C) $\gg \bullet \cdot \check{3}^{\text{TM}3} - f \dagger$
 (D) $! \hat{\cdot} - f \cdot \check{3}^{\text{TM}3} - f \dagger$

88. Í › • € • • • € • • ^ š % • š ‹ š ‹ • € • “, Ø – š € › € • ‡ • • œ
(A) ... ‡ Ä • š „ ž ‘
(B) , • € š „ ž ‘
(C) , • É □ ^ ‡
(D) œ ¼ ... • ‡ f ^
œ • ž Ÿ % q

89. ^{m}\delta,\epsilon\ \square,\epsilon,\text{\textsf{E}},\copyright\ \bullet\check{\mu},\ddagger\ \bullet\phi^{\circ}

(A) ,1f^{~}\%o\ \$\%o\$

(B) -\text{\textsf{E}}^{\sim}\\$\ \$\%o\$

(C) \ddot{O}\frac{1}{2}\ \$\%o\$

(D) \text{\textsf{T}}^{\text{\textsf{M}}}\frac{1}{6}\\$\ \$\%o\$

\ae\cdot\check{z}\ \grave{y}\%qj

90. ^ • -∓, < -⊕ , « • ⊕ , < ∅ < • ⊕ » -š , < € € • • ⊕ ÷ š • ⊕

(A) U @ 233

(B) U @ 235

(C) U @ 238

(D) U @ 239

⊕ • ž Ÿ % qj



••žŸ : (B) U @ 235

91. šŮšŦ©Œ €†ˆ ° •š ‡ž^ • ^š,¥€ ŒšŦšŒ € •š-š «š‡š •œ

- (A) •†ŦŸŦ- ^
- (B) ^†ŦŸŦ- ^
- (C) •š, ¢-Œ
- (D) Å • ¢š- ^

œ • ž Ÿ%q

••žŸ : (B) ^†ŦŸŦ- ^

92. ¯šš€•- -šŦ-Ÿ Ů ...†•, f € -šŦ-Ÿ œš- œ € ‚ €• €•†•œ

- (A) °š¹ „š- ^, f
- (B) °š¹ „š- Ć Éš'
- (C) °š¹ „š- ,Ÿ „ •†f
- (D) °š¹ „š- Ŧš „š » „ f

œ • ž Ÿ%q

••žŸ : (B) ^†ŦŸŦ- ^

93. •š•š,¥€ ...žˆ ° ĆŒšš •†• •œ

- (A) -, „ž 'a „š
- (B) -, „ž 'a „š
- (C) -, „ž 'a „š
- (D) „œ« ^ •šŒ

œ • ž Ÿ%q

••žŸ : (C) -, „ž 'a „š

94. -, ~ •Â• • ^š-ŒŦ©f < •†š ‡, ~ˆ €• š^, ¥ •†•



Exams : UPSC, SSC, Railway, Banking, Police Teaching, Defense & All Government Job Recruitment Exams
Study Material : Current Affairs, GK, General Studies, Reasoning, Mathematics, English, Hindi etc.

- (A) „Æ
(B) |, Æ,
(C) É~ fš®¹Ç fš „, @
(D) | •, ž..., f'f

æ • ž Ÿ%q

•• žŸ : (A) „Æ

95. —, ~, €•• ~•“ θ €‘ ••´Œš—š «š—, ‡•, ^, ‡‡, € ‘ €š´š’•••š°
(A) 0 (»←)
(B)
(C) /2
(D) 2

æ • ž Ÿ%q

•• žŸ : (D) 2

96. , ^¹‡ ¥š š €š • ‡š f • š<••, f „, €• ž•€ ‘ €š ž•—•• € ‡••Ű
(A) ¬³•š—ž
(B) ¬Œš~ž
(C) Ě~%‡« -ž
(D) ¶^Œq ¢%®« ^ •šE

æ • ž Ÿ%q

•• žŸ : (B) ¬Œš~ž

97. 1 „µŒŒ š šš •œ
(A) 10⁻¹⁰ Œš~ž
(B) 10¹⁰ Œš~ž
(C) 10² Œš~ž
(D) 1 Œš~ž

æ • ž Ÿ%q



Exams : UPSC, SSC, Railway, Banking, Police Teaching, Defense & All Government Job Recruitment Exams
Study Material : Current Affairs, GK, General Studies, Reasoning, Mathematics, English, Hindi etc.

•• ŽŸ : (A) 10^{10} €š~ž

98. ,ó<šµ€± € ,€• µ €š š•^†'šµ •š•š,¥€ •>†š •œ

(A) $1\Delta^{\wedge}\text{š}$

(B) $\alpha\ddagger\alpha$

(C) $\cdot\text{š}\alpha\ddagger$

(D) $\cdot\text{ž}\ddagger$

œ•ž Ÿ%q

•• ŽŸ : (A) $1\Delta^{\wedge}\text{š}$

99. ž¼€š €š •^>Ÿ€ ‐š f € •œ

(A) - α

(B) $\cdot\text{ž}\ddagger$

(C) $\tilde{O}\frac{1}{2}, @ \cdot^2\alpha$

(D) $\ll\pm\text{ž}$

œ•ž Ÿ%q

•• ŽŸ : (B) $\cdot\text{ž}\ddagger$

100. $^2\text{š}<\text{š} \cdot \text{€š}<\text{€š} \text{š}\ddagger' \text{€š} \cdot ><\text{š} \text{‐š}, \cdot,$

(A) $,^3^{\wedge}, \dots, \gg \tilde{A} \sim \alpha \tilde{A} \text{€}\ddagger f \pm \ddagger, ^3^{\wedge} \circ \ddagger \alpha,, f \ddagger$

(B) $\alpha \times^{\circ}, \dots, \gg \tilde{A} \sim \alpha \tilde{A} \text{€}\ddagger f \pm \ddagger \alpha \times^{\circ} \circ \ddagger \alpha,, f \ddagger$

(C) $\alpha \times^{\circ}, \dots, \gg \tilde{A} \sim \alpha \tilde{A} \text{€}\ddagger f \pm \ddagger, ^3^{\wedge} \circ \ddagger \alpha,,$

(D) $,^3^{\wedge}, \dots, \gg \tilde{A} \sim \alpha \times^{\circ} f \pm \ddagger \alpha \times^{\circ} \circ \ddagger \alpha,, f \ddagger$

œ•ž Ÿ%q

•• ŽŸ : (C) $\alpha \times^{\circ}, \dots, \gg \tilde{A} \sim \alpha \tilde{A} \text{€}\ddagger f \pm \ddagger, ^3^{\wedge} \circ \ddagger \alpha,,$

101. ,€•• •œ€š $\alpha - \ddagger < "$ •š •j'šµ •œšš •>†š •œ



Exams : UPSC, SSC, Railway, Banking, Police Teaching, Defense & All Government Job Recruitment Exams
Study Material : Current Affairs, GK, General Studies, Reasoning, Mathematics, English, Hindi etc.

- (A) $\frac{1}{2} \times \frac{1}{2}$
(B) $\frac{1}{2} \times \frac{1}{2}$
(C) $1 \times \frac{1}{2}$
(D) $1 \times \frac{1}{2}$

• $\frac{1}{2} \times \frac{1}{2}$

• $\frac{1}{2} \times \frac{1}{2}$: (A) $\frac{1}{2} \times \frac{1}{2}$

102. 3×10^{11} ,,,

- (A) 3×10^{11} ,,,
(B) 6×10^{15} ,,,
(C) 6×10^{24} ,,,
(D) 7×10^{30} ,,,

• $\frac{1}{2} \times \frac{1}{2}$

• $\frac{1}{2} \times \frac{1}{2}$: (C) 6×10^{24} ,,,

103. 28×10^6 ,,,

- (A) 28×10^6 ,,,
(B) 12×10^6 ,,,
(C) 6×10^6 ,,,
(D) 24×10^6 ,,,

• $\frac{1}{2} \times \frac{1}{2}$

• $\frac{1}{2} \times \frac{1}{2}$: (D) 24×10^6

104. 1×10^6 ,,,

- (A) 1×10^6 ,,,
(B) 1×10^6 ,,,
(C) 1×10^6 ,,,
(D) 1×10^6 ,,,

• $\frac{1}{2} \times \frac{1}{2}$



••žŸ : (D) Å, ~¢ ^%

105. ž ĩ ž••, •œŸ €±ŸŸ Ÿ Å «š•>ž• •œ

- (A) „%□ ,Ě±, f - Û - ž'
- (B) „%□™, f - Û - ž'
- (C) ,Ě±, f - Úž™, f - Û - ž'Ÿ^a
- (D) „@« ^•šŸ

œ•žŸ%q

••žŸ : (C) ,Ě±, f - Úž™, f - Û - ž'Ÿ^a

106. ,€• žš• • Ě^, < €š ^• 332 Ÿ•Ÿ / •••>žš• •œ

- (A) 0 Ě C •ž
- (B) 35 Ě C •ž
- (C) 100 Ě C •ž
- (D) 10 Ě C •ž

œ•žŸ%q

••žŸ : (A) 0 Ě C •ž

107. •Â^• ž f ••À• -š <••«š<•• •žž^•-ž^ ' €š Ÿš<

- (A) Ě~ f ž - ž f ž •'
- (B) ¹Ç f ž - ž f ž •'
- (C) Û•ž - ž^%ž ¹Ç f ž •', ^š°%ž^%ž Ě~ f ž •'
- (D) ! •,ž..., f f ž• f ž •'Ů

œ•žŸ%q

••žŸ : (A) Ě~ f ž - ž f ž •'

108. «š šŸ, •' f ž• •œž• ••€š

- (A) ě-f^ ¹Ç f ž •'



(B) $\mathcal{L} - f \wedge \dot{E} \sim f \ddagger \bullet \cdot$
 (C) $\mathcal{L} \cdot \dot{Z} \dots, f \nmid \dot{Z} \bullet f \ddagger \bullet \cdot$
 (D) $\bullet \bullet \propto_{\mathcal{O}} f \ddagger \bullet \cdot, \mu \dot{Z} \dot{E} \sim f \ddagger \bullet \cdot$
 $\mathfrak{A} \bullet \dot{Z} \ddot{Y} \propto \mathfrak{q}$

109. " f~~£~~ ^ ^Ç£ ¢ " €ŠÁ •œ
 (A) œ - † " , Š
 (B) f † • " , Š
 (C) £%₀ " , Š
 (D) ..%₀ " , Š

œ • Ž Ÿ%q

110. Šš šī •• « f €š €^~^ <šš
(A) 1Çf† •'
(B) É~ f† •'
(C) ••□%Çf† •', μž É~ f† •'
(D) ! •,ž..., f'f ž• f† •'
æ • ž Ÿ%q

111. $\text{œ} \cdot \text{ž} \text{ } \ddot{\text{Y}} \text{ } \text{q}$



•• ŽŸ : (D) - □ „%„...† • „š Žž

112. „€ , f Û€ „€ • €Š< ^• ••À• «š •• ••ž•€ „»† Ě–, €† €š ...š °

- (A) ¹Ç - †–%†
- (B) † •,ž..., f'f ž•%†
- (C) É~ - †–%†
- (D) „@« ^ •š€

œ •ž Ÿ%q

•• ŽŸ : (B) † •,ž..., f'f ž•%†

Railway Exams - RRB NTPC, Group D, ALP ः, Ÿ Ğ General Science „† Ğ•ž...••', •Ě€† •Ÿ† •Ÿ ¶ ĞĞ †€ f•ž •ž
€•, f „ „...††^ (Physics) €%× <%fž „%„^ •<%„†f%À ¶ Ğ%Ğ •Ğ Ő€100+ Physics MCQs »†, Ğ□ „ž ž•%À- Ğ
ः • „%□† •žšŐ† „š ŸĚ~ €%ž–Ÿ œ–@™š €†, ¹f •atmŸ

...†, †€ , ^%š< (Physics) ••«†•€à Ğ•ž^••'£±, •€ :

Railway Exams (RRB NTPC, Group D, ALP ः, Ÿ) „%□† €•, f „ „...††^ (Physics) €%š%š Ğ•ž...••'~², • „ „%»^{2~}
^Ÿ~Ÿ, - Ğ MCQs •□ „ž^Ğ¹•š ĞŸŸ „ž™%

1. •, † (Motion)

- [™], f = Ÿžš / €Ě–
- ...%„ = „...Ě±†•^ / €Ě–
- ž...ž' = ...%Ğ •,ž...f'^ / €Ě–
- SI ¶ „, †« :



Exams : UPSC, SSC, Railway, Banking, Police Teaching, Defense & All Government Job Recruitment Exams
Study Material : Current Affairs, GK, General Studies, Reasoning, Mathematics, English, Hindi etc.

◦ $\dot{y} : \text{m/s}$

◦ $\frac{d\theta}{dt} : \text{rad/s}$

◦ $\frac{dx}{dt} : \text{m/s}$

◦ $\dot{z} : \text{m/s}$

2. Force, Mass, Acceleration

• $\vec{F} = m \vec{a}$ (Newton's Second Law)

• $\vec{F} = m \vec{a}$ (Newton's Second Law)

• $\vec{F} = m \vec{a}$ (Newton's Second Law)

3. Work, Energy, Power

• $W = F \cdot d$ (Work)

• $U = mgh$ (Potential Energy)

• $P = \frac{W}{t}$ (Power)

• $1 \text{ HP} = 746 \text{ W}$

4. Heat

• $T : \text{Kelvin (K)}$



- उष्णता का प्रसारण, जिससे :

1. चाल (Conduction)

2. चाल (Convection)

3. विकिरण (Radiation)

- $\lambda, \tilde{A}, f, \tilde{A}, f, \tilde{S} \propto \frac{1}{\lambda^2} \propto \frac{1}{f^2}$

5. “€Š³ (Light)

- “ „†» „š™, $f = 3 \cdot 10^{14}$ m/s

- $\tilde{A} \propto \frac{1}{f}$ “ „†» „† $\propto \frac{1}{f}$

- $\lambda \propto \frac{1}{f}$ “ „†» „† $\propto \frac{1}{f}$

- λ :

- λ (Convex): $\lambda \propto \frac{1}{f}$

- λ (Concave): $\lambda \propto \frac{1}{f}$

6. È^,« (Sound)

- $\lambda, \tilde{A}, f : \lambda \propto \frac{1}{f}$ ~ 343 m/s

- SI λ : Hz



Exams : UPSC, SSC, Railway, Banking, Police Teaching, Defense & All Government Job Recruitment Exams
Study Material : Current Affairs, GK, General Studies, Reasoning, Mathematics, English, Hindi etc.

• $1^{\circ} \text{C} = \frac{5}{9} (^{\circ}\text{F} - 32)$: $^{\circ}\text{F} = \frac{9}{5} (^{\circ}\text{C} + 32)$

• $1 \text{ atm} = 101325 \text{ Pa}$

• $1 \text{ atm} = 101325 \text{ Pa}$

10. $1^{\circ} \text{C} = \frac{5}{9} (^{\circ}\text{F} - 32)$: $^{\circ}\text{F} = \frac{9}{5} (^{\circ}\text{C} + 32)$

$^{\circ}\text{C}$	$^{\circ}\text{F}$	SI Unit
0°C	32°F	m
100°C	212°F	kg
1°C	1.8°F	s
1°C	1.8°F	K
1°C	1.8°F	A
1°C	1.8°F	W



Exams : UPSC, SSC, Railway, Banking, Police Teaching, Defense & All Government Job Recruitment Exams
Study Material : Current Affairs, GK, General Studies, Reasoning, Mathematics, English, Hindi etc.

- **Physics Objective questions for 12th pdf in Hindi**

- ...†,‡€ , ^%Š€ “” <>ÿ • 12th

How to read Physics Question for Competition Exam

Physics „%“ ^a „@ Competition Exams (- % Railway, SSC, UPSC, State Exams Ę, Ÿ) „%□ ▵ •• ‡ •• i cš Ů

•ĖĖ cš 1. \$ à ážš •, -a, „ | • Čž “ ” ^ Čž □ α TM f%À%□ ^ æ^Ėj, < •š •Š ° ‡□ (concept twist) •Ńfš •Ů š°%š

“œĖ€ f ,£Ñ• ,Ÿ ▴ TM ▽ •À

1. $f(x) = x^2 + 2x + 1$ (Read Full Question Carefully)

- [illegible]

2. €•^©• • È-Š< ~ (Focus on Keywords)

•ž ¢...†□ €j „Šx €¶- ³ã~ (keywords) •©f%À-´¢%

- [illegible]



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Exams : UPSC, SSC, Railway, Banking, Police Teaching, Defense & All Government Job Recruitment Exams
Study Material : Current Affairs, GK, General Studies, Reasoning, Mathematics, English, Hindi etc.

¶^ »äYª „@ •†¶ ¢†¶¶~ „ž@ —† ,YŒ†â Œi ,~ „†æŮ

3. ä Ñ³ < • İ <..... f•² ĩ̃ •>⁻ <š (Try to Recall Before Looking at Options)

- ¢...† ¢ •Ç „ž •• ¢%Œ Š ¢@°i , „ æ •ž •—† •@ ¢ „ f† •Ů
- ¶ ¢ ¢%Œ —¼—• ^ „ Œ •@™† Ůž ĩ̃ • „† „ ²— ¢%Œ €š Œ - ¹ f •@™†Ů

4. , ^€Ç•>µ€> „ €-„ € € € «šµ̄ (Eliminate Wrong Options)

- ÄÂ»^ „ @¼—†^ ¢%ŒÇ@ Ůž -@ ¢†Ç™ ¢ f •Äæ-•i fšff •~† Y@Ů
 - ¶ ¢ ¢%Œ •š æ •ž f „ ••š ^† ĩ̃ ¢†^ •@f† •Ů
- Elimination technique ¢%Œ • 50% ¢...† ¢ - ½Yš • ¢ „ž ¢ „ f%Ä

5. Concept ••«>İ>, £Bš Œ† Œš > (Link with Concept, Not Just Memory)

- æY†•ž ‘ :
- Q:



7. Trick Questions (Identify Formula-Based MCQs)

- - 10%

◦ $V, I, R, P, \text{ and } \rho$ are related by $V = IR$, $P = VI$, $\rho = \frac{R \cdot A}{L}$

- Current, Resistance, Power = Ohm's Law

$\rho = \frac{R \cdot A}{L}$ and $\rho = \frac{V}{I} \cdot \frac{A}{L}$

8. Previous Year Questions Solve (Practice PYQs Regularly)

- SSC CGL, CHSL, MTS, etc. PYQs

- Concept of PYQ = 10% of total marks

BONUS: Study Smart & Topic Wise Questions

• :

1. 10%

$V, I, R, P, \text{ and } \rho$

$V = IR$, $P = VI$

$\rho = \frac{R \cdot A}{L}$

$\rho = \frac{V}{I} \cdot \frac{A}{L}$

$\rho = \frac{R \cdot A}{L}$

• 10% of total marks

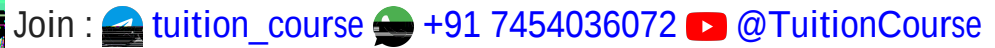
Formulas +

$V = IR$, $P = VI$, $\rho = \frac{R \cdot A}{L}$

$\rho = \frac{V}{I} \cdot \frac{A}{L}$

Ohm's Law +

SI Units + Conversion



Exams : UPSC, SSC, Railway, Banking, Police Teaching, Defense & All Government Job Recruitment Exams
Study Material : Current Affairs, GK, General Studies, Reasoning, Mathematics, English, Hindi etc.

æ • þ € ù ž • - › · :

- PW RRB General Science (ALP/NTPC/Group D)

Railway Exams : 100% - MCQs, Short Questions, Long Questions, Theory + PYQs + Multiple Choice Exercises; Answer Key

- **MTG Problems in General Physics**

Á-†• „ cE-†1□ “”^a „%†±, -• Šf „ ċ • „š ProblemíSolving „Ě „ □ 1%†ž „ž%šŮ

- **Concepts of Physics Vol 1**

H.C. Verma „š“, f , Δ f • $\dot{S}f$ „î Mechanics Ć, $\tilde{A}$ ž f | ... $\tilde{A}$ ž ‘žæ£, ©™ •žž« Ć%£Eë ^%% α ¬ Ć, $\ddot{Y}$ »Ů

• **Oswaal General Science for Competitive Exams**

Physics, Chemistry, Biology MCQs, SMART, Quick Revision

- **Handbook of Physics**

$\neg$, < @~†-¢‡ µ²Ε⊥† ¬..£,, -²¢%∞@ „ † ¢ẓ̌ , -•†ζ • −ž•0~, ž‰...‰~‰^ ζ,Ÿ •ž ±0Û%¢E— Eı,z...š - ^ ,,ž ¢,, f%
•Ä

é §, ‡, ¢ ‡ • Ê Š ^

• 'ŠÁ 6, f. : H.C. Verma, % Chapters, © Maths %Eë; , ůŽ MTG %b, f. ž. f ! i—t , žŮ

• **Railway focused:** PW RRB • **Šf** „ **Ėi** ^-%**ŲO**s **ÚŹ** Exam Pattern „ ‡ Coverage „ **Ė** **Ų** f ‡ • **Ų**

• **Ó** **«** **ê** **‡** **»** **f** **..** : Oswaal Úž Handbook ; **†** **ˆ** **š** **¢** **‰** **~** **•** **‡** Revision **Ÿ** **%** **À**

Disclaimer: Despite our best efforts, errors or omissions may occur, and we hold no responsibility for them.



Exams : UPSC, SSC, Railway, Banking, Police Teaching, Defense & All Government Job Recruitment Exams
Study Material : Current Affairs, GK, General Studies, Reasoning, Mathematics, English, Hindi etc.

- **Theory** : Concepts of Physics Vol 1 Theory +

• **Railway Exams** : PW RRB

- **Problem Practice** = MTG
- **Concept Clarity** = H.C. Verma
- **Complete Revision** = Oswaal
- **Pocket Guide** = Handbook

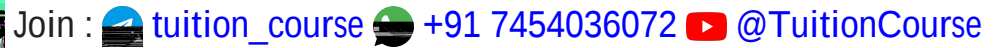
• **Conclusion** :

Railway Exams : PW RRB : Concepts of Physics Vol 1 Theory + Problem Practice = MTG
Concept Clarity = H.C. Verma
Complete Revision = Oswaal
Pocket Guide = Handbook

• **FAQs**

Q1. : RRB NTPC Group D

Ans. : PW RRB : Concepts of Physics Vol 1 Theory + Problem Practice = MTG



Exams : UPSC, SSC, Railway, Banking, Police Teaching, Defense & All Government Job Recruitment Exams
Study Material : Current Affairs, GK, General Studies, Reasoning, Mathematics, English, Hindi etc.

Q2. ¢–š –•“” ‹ Class 10 »‡ €•î

Ans. •†, | , ã,, fž “ ” ^ 9...šđž 10...š£, Ò† „ š NCERT •ž Ć ãžf •đ

Q3. ¢–š " < “” >µ€Š PDF ž• f ã¥ •ûe

Ans.

Q4. ¢–š žŸ ›µ• •Ɛ•¿š € ‹• −š, • „Û

Ans. • ‡, œ • ž „% € ‡± „ž ‘ €š €€ëj f‡, „ €,...Ä— €j™ α fš ^ • ©û

Q5. ¢–š ^•,©→ € ê • £,...• –ž• f ã¥ • Û

Ans. • €žŹâœ%du²C'•Ž - ½ÿ •š ...š,¥—Á—ì—î€š œ•□äÃ •atmoŹo

•••à•«š<•^šf••μš,^‡“”<>ÿ•-RRB

Group D Exam 2022 Physics MCQs.

1. , < 0 < £, € • €š § • ^ ‡ ′ š € • ^ š ′ ¥ € • † š • œ

- (A) $\bullet \check{s} \alpha \dagger$
 (B) $\wedge \check{s} \alpha \dagger$
 (C) $1^{\text{TM}} \wedge \check{s}$
 (D) $\bullet \check{z} \dagger$

œ • ž Ÿ%oq

•• žŸ : (C) 1ÀM^š

2. „ $\langle \circ \rangle \in \mathbb{E}, \epsilon \cdot, \wedge^1 \nmid \rho \text{š} \epsilon \cdot - \nmid \mu \epsilon \cdot \nmid \mu \tilde{\epsilon} \cdot \text{é} \cdot \text{š} \text{š} \cdot \nmid \cdot \cdot \text{q} \cdot$

- (A) $\bullet \ddot{\text{Z}} \ddot{\text{I}} \text{M} \text{š}$
 (B) $\text{I} \text{..} \ddot{\text{Z}} \cdot f$
 (C) $\text{X} - \text{,,} \ddot{\text{Z}} ' \text{a}$
 (D) $\text{Y} - \text{,,} \ddot{\text{Z}} ' \text{a}$

æ • ž Ÿ%oq

••• žŸ : (C) X- „ž ‘ a



3. "€Š³ €• -šf •š•••f•%š‡ €• °

- œ • ž Ÿ%oq

••• žŸ : (B) žčēž ^%₀₀

4. • f • íŒ~³•'Œ ^»‡iŒ › ²š «š‡š •œ

- æ • ž Ÿ%oq

••žŸ : (A) □;¢ ÚŽ “ „†» „%1š°

5. «Š “ €Š³ ^Š-i ••€ŠÄ € „Š‡Š ••» °

- æ • ž Ÿ%oq

• • žŸ : (B) fžEŸ^M_{1/4}—'É~ fš •'

6. • • ' ¢ ¤, € • Š^ ‡ ‹ • › ‡ Š • œ « Š ° “ € Š³ « Š ‡ Š • œ

- (A) $\frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} m v^2 \right) = \frac{1}{2} m v \frac{dv}{dt}$ $\square$ $\mathbb{E}$
- (B) $\frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} m v^2 \right) = \frac{1}{2} m v \frac{dv}{dt}$ $\square$ $\mathbb{E}$
- (C) $\frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} m v^2 \right) = \frac{1}{2} m v \frac{dv}{dt}$ $\square$ $\mathbb{E}$
- (D) $\frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} m v^2 \right) = \frac{1}{2} m v \frac{dv}{dt}$ $\square$ $\mathbb{E}$



æ • ž Ÿ%oq

7. "€Š³ ‡‡i,€ • , • ½Š‡ • €Š–'€ ‡Š • œ

- (A) ••' ċ ff žž, •žž... f^r
(B) ! •... f^r
(C) “ „š' „
(D) Á—, • f „ž'

æ • ž Ÿ%oq

8. "€Š³ ž«š'€›, ^¹‡ ž«š'€› š~f ‡š •œ

- (A) ¥‡—^%&
(B) ,...ÓŠ €~Ž
(C) ¢•Ž ¢%
(D) ,...ÓŠ ¢%

æ • ž Ÿ%oq

9. -šġœ ž«š'€ , ^ 1 ‡ ž«š'Œ š~ f ‡š •œ

- (A) ¥‡—^%&
(B) ,...ÓŠ €©~Ž
(C) ¢•Ž ¢%
(D) ,...ÓŠ ¢%

æ • ž Ÿ%oq

••• žŸ : (A) ¥‡—^℥



10. The temperature of the sun is

- (A) $1.5 \times 10^7 K$
- (B) $2.5 \times 10^7 K$
- (C) $1.4 \times 10^6 K$
- (D) $1.4 \times 10^7 K$

Correct Answer: (A)

Explanation: The temperature of the sun is $1.5 \times 10^7 K$.

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11. The temperature of the sun is

- (A) $3 \times 10^{16} \text{ } ^\circ C$
- (B) $3 \times 10^6 \text{ } ^\circ C$
- (C) $2 \times 10^{16} \text{ } ^\circ C$
- (D) $2 \times 10^7 \text{ } ^\circ C$

Correct Answer: (C)

Explanation: The temperature of the sun is $2 \times 10^{16} \text{ } ^\circ C$.

12. The temperature of the sun is

- (A) $10^7 \text{ } ^\circ C$
- (B) $10^6 \text{ } ^\circ C$
- (C) $10^8 \text{ } ^\circ C$
- (D) $10^9 \text{ } ^\circ C$

Correct Answer: (B)

Explanation: The temperature of the sun is $10^6 \text{ } ^\circ C$.

13. The temperature of the sun is

- (A) $10^7 \text{ } ^\circ C$
- (B) $10^8 \text{ } ^\circ C$



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(C) |, ^, -, £, \$, ^, †, €, „, š, —, …, “, ¥, ^

(D) ¢ € Š

æ • ž Ÿ%q

•• žŸ : (C) | , ^ - £ § f ^ ‡ , € „ , š — , ... " ¥ ^

14. •š"©»« < šĚ ▯ ¥š, ‡ •œ

(A) $\hat{+}, \hat{\epsilon}, \hat{\text{š}}, \dots, \hat{\text{ž}}$

(B) ^†, € „š— ¢~~£~~—^

(C) $\ddot{Y}^{\text{©}^a}$

(D) „©« ^ •š£

œ • ž Ÿ%oq

••• ŽŸ : (B) ^ ‡ , € , „ š — ¢ £ — ^

15. $\cdot, f \in \langle \neq \neg \S \langle \mathbb{E}, \langle - \mathbb{E} \S \sim \mathbb{E}^{-\S} f \in \circ \rangle \neq \bullet \bullet \circ \mathbb{E}$

(A) $\neg$, €~~E~~-š

(B), § ® ~~¢~~ - š

(C) • ‡^o €£© - š

(D) ° fš' c£© - š

œ • ž Ÿ%oq

• • • žŸ : (D) ° fš'¢£© - š

16. $\bullet \pm, \ll E^a \ll \epsilon \check{S}^2 \gg, \epsilon \bullet \ll \bullet, \epsilon - \check{S}$

(A) $-\infty - \infty \pm 2\epsilon$

(B) - %\$ °¥, ...,,

(C) 1997 by the American Psychological Association

(D) žŸžµ©¥'

æ • ž Ÿ%oq



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•• ŽŸ : (C) 6.25×10^{-18} m^2

17.1 6.25×10^{-18} m^2 ••

(A) 6.25×10^{-18} m^2

(B) 6.25×10^{-2} m^2

(C) 6.25×10^{-18} m^2

(D) 6.25×10^{-2} m^2

•• ŽŸ

•• ŽŸ : (A) 6.25×10^{-18} m^2

18. 6.25×10^{-18} m^2 ••

(A) 6.25×10^{-18} m^2

(B) 6.25×10^{-2} m^2

(C) 6.25×10^{-18} m^2

(D) 6.25×10^{-2} m^2

•• ŽŸ

•• ŽŸ : (B) 6.25×10^{-2} m^2

19. 6.25×10^{-18} m^2 ••

(A) 3.6×10^3 m^2

(B) 3.6×10^3 m^2

(C) 4.2 m^2

(D) 1 H.P.

•• ŽŸ

•• ŽŸ : (B) 3.6×10^3 m^2

20. 6.25×10^{-18} m^2 ••

(A) 6.25×10^{-18} m^2

(B) 6.25×10^{-2} m^2



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• • ž Ÿ : (D)
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(D) , ... € ‡ ^

(D) „ ‡ « ^ • š £

œ • ž Ÿ % q : (C ! _ n Û

• • ž Ÿ : (C) , ... € ‡ ^

21. „ € € š š œ • £ „ – ‡ ‡ , ^ ¹ ‡ š • ´ £ ° • ‡ š • œ
 (D)

(D)

(C)

(D)

21) 0 € € & J & À £ % P € ‡ € £

(D # 0 ? n Û

(œ • ž Ÿ % q

œ • ž Ÿ % q

(D)

(D)

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- (B) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(C) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(D) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

Answer: (B)

••• ŽŸ : (A) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

28. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

- (A) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(B) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(C) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(D) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

Answer: (B)

••• ŽŸ : (B) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

29. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

- (A) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(B) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(C) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(D) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

Answer: (A)

••• ŽŸ : (A) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

30. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

- (A) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(B) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(C) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(D) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

Answer: (A)



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•• žŸ : (B) , ... , „ ž ‘ Ąžžž

31. Å•« £ £, ¬£š»££ €š €š–'•ø°

- (A) $f \vdash \bullet \mathbb{E} \vdash \wedge \text{ „ } \mathbb{E} \text{ „ } \check{Z} \vdash \dagger$
 (B) $\text{ „ } \bullet \mathbb{E} \vdash \wedge \text{ „ } f \vdash \bullet \text{ „ } \textcircled{0} \text{ } ^1 \mathbb{C} \vdash \wedge \dagger$
 (C) $\neg \text{ „ } \mathbb{C} \mathbb{E} \vdash \wedge \text{ „ } f \vdash \bullet \text{ „ } \textcircled{0} \text{ } ^1 \wedge \dagger \text{ „ } \textcircled{0} \text{ } ^1 \wedge \dagger$
 (D) $\mathbb{E} \wedge \vdash \mathbb{E} \text{ „ } \textcircled{0} \text{ } \mathbb{E} \vdash \wedge \dagger$

œ • ž Ÿ%oq

••• žŸ : (C) ¬,, €£†^ f†• „© 1^†—‰0 ^†

32. $3\frac{1}{2}$ « $f \in \mathbb{S} \setminus \hat{\neg} \langle \mathbb{S} \setminus \mathbb{A} \mathbb{S} \setminus \alpha \cdot \mathbb{S}'' \mathbb{E} \rangle \in f \cdot \mathbb{C} - \mathbb{S} \cdot \rangle \cdot \mathbb{S}$

- (A) 100 Ê F
(C) 232 Ê F
(B) 104 Ê F
(D) 212 Ê F

æ • ž Ÿ%oq

••• ŽŸ : (D) 212 Ê F

33. $\text{€} \text{€}^{\wedge} < \text{‡} \text{Š} \bullet \text{€} \text{Š} \bullet \bullet \text{€} \text{Š} \text{€} \text{Š} \cdot f < \text{Š} \text{€} \bullet > \text{‡} \text{Š} \bullet \text{œ}$

- (A) 273 K
(B) 100 K
(C) 373 K
(D) 0 K

æ • ž Ÿ%oq

- $\dot{Z}Y : (A) 273 \text{ K}$

34. È^, < €Š ^• •š••É–š~š •>‡š •œ



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- (A) $\frac{1}{2}$ of 100
(B) $\frac{1}{2}$ of 100
(C) - 100
(D) $\frac{1}{2}$ of 100

• 200

• 200 : (A) $\frac{1}{2}$ of 100

35. $\frac{1}{2}$ of 100 is 50. What is 50% of 100?

- (A) 100
(B) 50
(C) 25
(D) 125

• 200

• 200 : (A) 100

36. $\frac{1}{2}$ of 100 is 50. What is 50% of 100?

- (A) $\frac{1}{5}$ of 100
(B) $\frac{1}{15}$ of 100
(C) $\frac{1}{10}$ of 100
(D) $\frac{1}{20}$ of 100

• 200

• 200 : (C) $\frac{1}{10}$ of 100

37. $\frac{1}{2}$ of 100 is 50. What is 50% of 100?

- (A) $\frac{1}{4}$ of 100
(B) $\frac{1}{4}$ of 100
(C) $\frac{1}{4}$ of 100
(D) $\frac{1}{4}$ of 100

• 200



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• • • $\ddot{Y} : (A)^{1/4 \dots, \wedge, \ddagger} \bullet \ddot{Z} \ddagger \dots f^{\wedge}$

38. ÊƒŒ Êƒ±•œ- €)ÁĚ-,€± ÊƒŒ • ² ĩŒ •) «Œ,, ±) Œ•€Œ ¢ ^±€Œƒ °

- (A) ${}^1\text{C}_5$ - 1%
(B) $\text{E}^{\sim}$ - 1%
(C) $|\cdot, \check{z}, \dots, f'f \check{z}$ - 1%
(D) $„\text{C} \ll \wedge \cdot \text{šE}$

æ • ž Ÿ%oq

• • • žŸ : (B) É~ - ‡—%‡

39. -, ~ Ê f • • „€ Ě-, € ‡ € »-š< • ~ Ě-, € ‡ šđe «š,, ‡ » α ^ ‡ € š f °

- (A) ${}^1\text{C} - \text{t} - \text{t}$
- (B) $\text{E} - \text{t} - \text{t}$
- (C) $! \cdot \text{Z} \dots, f f \text{Z} \cdot$
- (D) $„\text{C} \ll \wedge \cdot \text{S} \text{E}$

æ • ž Ÿ%oq

• • • žŸ : (C) | •, ž..., f'f ž • %g†

40. , • €Î© • • Î©ƒƐ €Š ² ^ ‡€Šƒ • ‡Š • œ

- (A) 1 ¢
(B) 2 ¢
(C) 3 ¢
(D) 4 ¢

œ • ž Ÿ%oq

••• žŸ : (B) 2 ¢%¥

41. €.³ €š < f • € « f €š ž • • • ‡ • • †š • œ



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- (A) $\lim_{x \rightarrow \infty} f(x)$
(B) $\lim_{x \rightarrow \infty} f(x)$
(C) $\lim_{x \rightarrow \infty} f(x)$
(D) $\lim_{x \rightarrow \infty} f(x)$

$\lim_{x \rightarrow \infty} f(x)$

••žŸ : (B) $\lim_{x \rightarrow \infty} f(x)$

42. $\lim_{x \rightarrow \infty} f(x)$

- (A) $\lim_{x \rightarrow \infty} f(x)$
(B) $\lim_{x \rightarrow \infty} f(x)$
(C) $\lim_{x \rightarrow \infty} f(x)$
(D) $\lim_{x \rightarrow \infty} f(x)$

$\lim_{x \rightarrow \infty} f(x)$

••žŸ : (A) $\lim_{x \rightarrow \infty} f(x)$

43. $\lim_{x \rightarrow \infty} f(x)$

- (A) $\lim_{x \rightarrow \infty} f(x)$
(B) $\lim_{x \rightarrow \infty} f(x)$
(C) $\lim_{x \rightarrow \infty} f(x)$
(D) $\lim_{x \rightarrow \infty} f(x)$

$\lim_{x \rightarrow \infty} f(x)$

••žŸ : (B) $\lim_{x \rightarrow \infty} f(x)$

44. $\lim_{x \rightarrow \infty} f(x)$

- (A) $\lim_{x \rightarrow \infty} f(x)$
(B) $\lim_{x \rightarrow \infty} f(x)$
(C) $\lim_{x \rightarrow \infty} f(x)$
(D) $\lim_{x \rightarrow \infty} f(x)$

$\lim_{x \rightarrow \infty} f(x)$



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••• žŸ : (B) É~ f‡ •'

45. „€ šš š šš •→š •ø°
(A) 10^{-5} •‡Ë „ □

(B) $\mathbb{R} \otimes f$



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(B) 24 ईए† ङ

(C) 36 ईए† ङ

(D) 48 ईए† ङ

œ • Ž Ÿ%q

•• ŽŸ : (B) 24 ईए† ङ

49. •Ā• • ^š-ƒƒf- ~šš €š €š ‘ •œ

(A) ™šž...†, ħ‘

(B) •Ń...š „† •,ž °œ ‘

(C) •Ń...š „† Éšˆ

(D) „@« ^•šÉ

œ • Ž Ÿ%q

•• ŽŸ : (A) ™šž...†, ħ‘

50. •Ā• • €š Ńfš-« ^• •œ

(A) 15 „,œš. / œ%

(B) 11.2

(B) 11.2



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•• ŽŸ : (A) •,ž...f^»š□

52. ••žŸ •,ž •,•—Ÿ •,•• ••,ž•š,~ž,•—š—š °

- (A) —~^
- (B) „%ž
- (C) „^ž,^ „ •
- (D) ™□š,□—^a

œ • Ž Ÿ%q

•• ŽŸ : (B) „%ž

53. „• «Ÿ „• •,•½š • •š—'• žš •œ

- (A) ...Ÿfš,ž •žŸ '
- (B) » , • f „ž •žŸ '
- (C) „@ 'š— ž Éš ' „ž •žŸ '
- (D) ž, „ •ž% „ž •žŸ '

œ • Ž Ÿ%q

•• ŽŸ : (D) ž, „ •ž% „ž •žŸ '

54. „• :~ • žŸ « ••,•ž••• ' • ŸŸ•• š,žŸž žŸ « ~•ž— • •œ••

- (A) 0 Ê
- (B) 90 Ê
- (C) 45 Ê
- (D) 60 Ê

œ • Ž Ÿ%q

•• ŽŸ : (C) 45 Ê

55. ^š—Ÿf Ÿ šš~f>ž žœ•ššš ' •œ

- (A) fž•



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- (B) ...%
- (C) $\ddot{Y}^{\dagger 1}$
- (D) $\acute{E}^{\wedge} \ddot{Z} \dots$

œ • Ž Ÿ%q

• • Ž Ÿ : (C) $\ddot{Y}^{\dagger 1}$

56. œ•š š ‘pµ• ,†« ž«š,€••†š• • ³—•>†•œ

- (A) 0 Ê C
- (B) @ 273 Ê C
- (C) 100 Ê C
- (D) 100K

œ • Ž Ÿ%q

• • Ž Ÿ : (B) @ 273 Ê C

57. •š •€š †š•€š•• ,€• †š• †€ “—††•>•€†š•œ

- (A) 260 Ê C
- (B) 100 Ê C
- (C) 360 Ê C
- (D) 500 Ê C

œ • Ž Ÿ%q

• • Ž Ÿ : (C) 360 Ê C

58. ,“É€ òš š ,€• µ €š, ^~f < š,¥€Ÿ€•>†š•œ

- (A) 1Ä^š
- (B) □†□
- (C) ^†žMš
- (D) •ž†

œ • Ž Ÿ%q



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••žŸ : (A) 1À^š

59. ,€•••œœžž•–< È^,< ‡ μ •~œ•>‡••œ

- (A) | ^Š¼–'
- (B) | ^ŠË±
- (C) | “™‡œŠ
- (D) ,...ÓŠ °Š¹ „š–

œ•ž Ÿ%q

••žŸ : (A) | ^Š¼–'

60. ,€••»–š< • •Â^•œ–řšœ– žÔœ žœ« ^žÈ^šŸ ´£€ š šš •œ‡>ž• »–š< • <,‡œ>´,€‡<š ••š

- (A) 0 È
- (B) 30 È
- (C) 60 È
- (D) 45 È

œ•ž Ÿ%q

••žŸ : (D) 45 È

61. ~È¼ ‡ μ>μ• ‡ μ~œ•´,<...´ <••μ• ‡•

- (A) ¢£%•ž
- (B) °‡œ •ž
- (C) ŸŸ–œ‡^ •ž
- (D) ž ...%•ž

œ•ž Ÿ%q

••žŸ : (D) ž ...%•ž

62. €‡< ° •š€´ •š•š,¥€ š»–šÁ •œ



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- (A) $\frac{1}{2} \times 2^2$
(B) $\frac{1}{2} \times 2^2$
(C) Alfa „ ‘
(D) $\frac{1}{2} \times 2^2$

œ • ž Ÿ%q

•• ž Ÿ : (B) $\frac{1}{2} \times 2^2$

63. $\frac{1}{2} \times 2^2$ •š Ćš • †š •œ

- (A) $\frac{1}{2} \times 2^2$ „š Ćš †š
(B) „ †š » ® $\frac{1}{2} \times 2^2$
(C) „š „š „š „š
(D) - • †š - „š $\frac{1}{2} \times 2^2$

œ • ž Ÿ%q

•• ž Ÿ : (B) „ †š » ® $\frac{1}{2} \times 2^2$

64. „š •š •š •š •š •š •š •š

- (A) $\frac{1}{2} \times 2^2$ -
(B) •š „š „š
(C) „š „š „š
(D) ...†š

œ • ž Ÿ%q

•• ž Ÿ : (A) $\frac{1}{2} \times 2^2$ -

65. 1 $\frac{1}{2} \times 2^2$ š šš

- (A) 6 Ćš~ž
(B) 6 μ š~
(C) 100 $\frac{1}{2} \times 2^2$
(D) 60 μ š~

œ • ž Ÿ%q



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••žŸ : (B) 6 μš~

66. £š" • š"E @ ¢, ^%€š € •œ

(A) »†,, ¢š

(B) •†Ē,, ¢

(C) »@½¢

(D) ...†~ž Ē^

œ • ž Ÿ%q

••žŸ : (C) »@½¢

67. «£ "¢ < ,€ • , • ½š¢ • €š- '€ †š •œ

(A) ŸĀ—Ē†^ @ ¢žŌ '

(B) œ - †' ¢žŌ '

(C) ž, ,, ¢£%® ¢žŌ '

(D) ,, @ ' š— ¢£%® ¢žŌ ' •'

œ • ž Ÿ%q

••žŸ : (C) ž, ,, ¢£%® ¢žŌ '

68. Ąš< € ~šš •œ

(A) •†ž%† 760 ¢šš >

(B) •†ž%† 70 ,ĒĒš >

(C) ...†—šš ¢š— Ÿ†¹

(D) 1.2 ...†—šš ¢š— Ÿ†¹

œ • ž Ÿ%q

••žŸ : (B) •†ž%† 70 ,ĒĒš >

69. Ē<ĒĒ @ Ōš š ,€ • €• Ąš • €• «š† •œ°

(A) ...†—šš†¹



(B) $\text{TM}^a \text{ }_{\text{ } \ddot{Y}^1}$
 (C) $\text{Y}^a \text{ }_{\text{ } \acute{E}^{\wedge} \check{Z} \dots}$
 (D) $f \bullet \check{Z} f \%_{\text{ } \text{ } \ddot{Y}^1 \text{ }_{\text{ } \dots}}$
 æ • ž Ÿ % q

70. $\hat{\cdot} \gg \ddagger \text{€} \cdot \text{€} \text{Š} \text{Ō} \text{š} \text{š} \sim f \text{◀} \cdot \cdot \text{š} \cdot, \hat{\cdot}, \ddagger \ddagger \cdot \cdot \cdot \text{š} \cdot$

(A) $\text{◄} - f^{\wedge}$

(B) $\text{€} \ddagger \text{ž}$

(C) $\text{Ÿ} \text{Ŧ} - \text{€} \ddagger^{\wedge}$

(D) $\text{É}^{\wedge} \text{ž} \dots$

◄ • ž Ÿ%q

71. $\frac{1}{2}RT$ is the average kinetic energy of a molecule of a gas at temperature T . The average kinetic energy of a molecule of a gas at 27°C is 6.21×10^{-21} J. The temperature in Kelvin is

(A) 280K
(B) 290K
(C) 310 K
(D) 300K

72. •š š «œ±š •œ
(A) 39 Ê C
(B) -39 Ê C
(C) 40 Ê C
(D) 60 Ê C

œ •ž Ÿ%q



••žŸ : (B) -39 Ê C

73. žx⁻ ‡\$•Ø€ €› œš• ‹•€š -ŧ •œ

(A) •‡¶™œš~ž

(B) •‡¶žœš~ž

(C) ~„œš~ž

(D) ,•„^œš~ž

œ•ž Ÿ%q

••žŸ : (B) •‡¶žœš~ž

74. ³Ÿ€ •f •œ

(A) ° fš„ œ%

(B) “‡±,œ„ œ%

(C) ŸŒ fš—„ œ%

(D) „œ« ^•šE

œ•ž Ÿ%q

••žŸ : (B) “‡±,œ„ œ%

75. “€š³ €• •,‡ —œ Ÿ€ ››•°

(A) ...‡—šœšš-ž^%ž

(B) - □ œššž^%ž

(C) „‡° œššž^%ž

(D) ,^...‡f œššž^%ž

œ•ž Ÿ%q

••žŸ : (C) „‡° œššž^%ž

76. ‡,ì‡ ‰šf€ ščš—œš‡•œ

(A) □œ•%‡



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- (B) $f^{\frac{1}{2}} \log \frac{1}{2}$
 (C) $\frac{1}{2} \log \frac{1}{2}$
 (D) $\frac{1}{2} \log \frac{1}{2}$
 Answer: (C)

••• Answer: (C) $\frac{1}{2} \log \frac{1}{2}$

77. $\log \frac{1}{2} \log \frac{1}{2}$
 (A) $\log \frac{1}{2} \log \frac{1}{2}$
 (B) $\log \frac{1}{2} \log \frac{1}{2}$
 (C) $\log \frac{1}{2} \log \frac{1}{2}$
 (D) $\log \frac{1}{2} \log \frac{1}{2}$
 Answer: (B)

••• Answer: (B) $\log \frac{1}{2} \log \frac{1}{2}$

78. $\log \frac{1}{2} \log \frac{1}{2}$
 (A) $\log \frac{1}{2} \log \frac{1}{2}$
 (B) $\log \frac{1}{2} \log \frac{1}{2}$
 (C) $\log \frac{1}{2} \log \frac{1}{2}$
 (D) $\log \frac{1}{2} \log \frac{1}{2}$
 Answer: (D)

••• Answer: (D) $\log \frac{1}{2} \log \frac{1}{2}$

79. $\log \frac{1}{2} \log \frac{1}{2}$
 (A) 0
 (B) 90
 (C) 45
 (D) 180
 Answer: (D)



•• ŽŸ : (A) 0°

80. ŽŸ • ¯š€•– ¥™ €š <€< €> ‘ , €‡<š •>‡š •œ

- (A) 0°
- (B) 90°
- (C) 45°
- (D) 180°

œ • Ž Ÿ%q

•• ŽŸ : (B) 90°

81. »€€ € ¢ , ^%€š € •œ

- (A) 1Ÿ¥ »²
- (B) ¿ ¶–Ě~š^
- (C) ¥™ ¢ž
- (D) μ‡ž,€°

œ • Ž Ÿ%q

•• ŽŸ : (A) 1Ÿ¥ »²

82. €‡,»€€ ,€ ‘>µ€•²>« ,€ • <•€•–

- (A) ¬¥, ... ^ • 1 ¢ ^%o
- (B) , ... , ~ž • ¢ ^%o
- (C) 1Ÿš ž@¢š ^%o
- (D) „²•ž, ^ „ ¢ ^%o

œ • Ž Ÿ%q

•• ŽŸ : (B) , ... , ~ž • ¢ ^%o

83. <š, ... €•– , „¢€ >µ€ž «š'žž•–< •>‡š •œ



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- (A) , ^-£\$ f ¢£-^ £žž†
(B) | , ^-£\$ f ¢£-^ £žž†
(C) , ^-£\$ f , ... "¥^ £žž†
(D) | , ^-£\$ f , ... "¥^ £žž†

œ • ž Ÿ%q

•• ž Ÿ : (C) , ^-£\$ f , ... "¥^ £žž†

84. €>šš¢£ -60 žž• ,«† € ‡š •¢

- (A) , „ž ‘
(B) , „ž ‘
(C) - , „ž ‘
(D) X- , „ž ‘

œ • ž Ÿ%q

•• ž Ÿ : (C) - , „ž ‘

85. •,«£ž£ €• ²>« ,€• <•€• ¬• °

- (A) ¬“¥ž¢^
(B) °¥, ... „
(C) ±²£¢^
(D) žžžµ¢¥’

œ • ž Ÿ%q

•• ž Ÿ : (A) ¬“¥ž¢^

86. „€ •š£š- ³¥€ •f £, ^ ¹ž£•´£° •žš •œ

- (A) , -£
(B) | £0, ^-£ „ □žž†¥
(C) ™£ „ „† | ³□
(D) £^š- ¥ž† Å • ¢ž†¥

œ • ž Ÿ%q



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•• žŸ : (B) ! €©, ^—€ „ □ €ž†¶¥

87. S, ±⁻š f € €š f Ć ' •œ

- (A) $\otimes^{\circ} \bullet \overset{\text{TM3}}{\text{Z}} - f \dagger$
 (B) $, ^3 ^ \bullet \overset{\text{TM3}}{\text{Z}} - f \dagger$
 (C) $\gg \bullet \bullet \overset{\text{TM3}}{\text{Z}} - f \dagger$
 (D) $| ^{-} f \bullet \overset{\text{TM3}}{\text{Z}} - f \dagger$

æ • ž Ÿ%oq

• • • $\check{Z} \check{Y} : (A) \otimes^{\mathbb{X}} \bullet \check{Z}^{\text{TM}3} - f \dagger$

88. Í › • € • • • € • • ^Š¼ • Š ‹ Š ‹ • € • “, Ø – Š € › € • ‡ • œ

- (A) ... $\ddot{A}$ •š,,ž '
 (B) ,• $\mathfrak{E}$ š,,ž '
 (C) ,• $\acute{E}$ α ^ ‡
 (D) œ¼...• ‡ f ^

æ • ž Ÿ%oq

• • • žŸ : (D) œ¼... • ‡ f ^

89. ^Š, < € ¢ , € , E , © « • ř ¥ ‡ • ¢ °

- (A) $1\frac{1}{2}\%$
- (B) $1\frac{1}{2}\%$
- (C) $1\frac{1}{2}\%$
- (D) $1\frac{1}{2}\%$

œ • ž Ÿ%oq

••• žŸ : (D) ™ ™ ¢ ¢%

90. ^ • - , < - E , « • E , < Ó < • E » - š , < € € • • E Ź ‡ š • œ

- (A) U[®] 233



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(B) U® 235

(C) U® 238

(D) U® 239

œ•ž Ÿ%q

••žŸ : (B) U® 235

91. šŮšŮ© € €†ˆ ° •š ‡žˆ •ˆš, ¥€ €šŮš € •š–š «š‡š •œ

(A) •†ŸŸŸ– ˆ

(B) ˆ†ŸŸŸ– ˆ

(C) •š, ¢–€

(D) Å • ¢š– ˆ

œ•ž Ÿ%q

••žŸ : (B) ˆ†ŸŸŸ– ˆ

92. ¯š€– –šŮ–Ÿ Ů ...†ˆ, f€ –šŮ–Ÿ €š• €€ˆ €ˆ €•†•œ

(A) °š¹ „š– ˆ, f

(B) °š¹ „š– ěÉšˆ

(C) °š¹ „š– ,Ÿ„ •†f

(D) °š¹ „š– Ůš„š »„„ f

œ•ž Ÿ%q

••žŸ : (B) ˆ†ŸŸŸ– ˆ

93. •š•š, ¥€ ...ˆˆ ° ě€†š •†• •œ

(A) –, „žˆˆ „š

(B) –, „žˆˆ „š

(C) –, „žˆˆ „š

(D) „Ů« ˆ•š€

œ•ž Ÿ%q



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••žŸ : (C) -, „ž ' a „š

94. -, ~ •Ā•• ^š-ŕĪ©f < •>‡š ‡>, ~< €• š^, ¥ •>‡•

(A) „Ē

(B) †, Ā„

(C) É~ fš® ¹Çfš „, 0

(D) † •, ž„, f'f

œ • ž Ÿ%q

••žŸ : (A) „Ē

95. -, ~ , € •• ~•" 0 €>' ••' ŕĖš-š «š- , ‡> •, ^, ‡‡, € ' €š ' ŕ' < •>•š °

(A) 0 (»—)

(B)

(C) /2

(D) 2

œ • ž Ÿ%q

••žŸ : (D) 2

96. , ^ ¹‡ ¥š š €š •‡š f •š<•Ē, f „, €• ž•€ ' €š ž•—>• € ‡•œĪ

(A) ¬³•š-ž

(B) ¬Ēš~ž

(C) Ē~%œ‡« -ž

(D) ¶^Ēq Ŧ%œ0« ^ •šĒ

œ • ž Ÿ%q

••žŸ : (B) ¬Ēš~ž

97. 1 „µŕĖ š šš •œ

(A) 10⁻¹⁰ Ēš~ž



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(B) 10^{10} से अधिक

(C) 10^2 से अधिक

(D) 1 से अधिक

अधिक जानकारी

• अधिक जानकारी : (A) 10^{10} से अधिक

98. एक वृत्त में एक चords की लंबाई 10 है, जो केंद्र से 6 इकाई दूरी पर है। इस वृत्त की त्रिज्या क्या है?

(A) 10

(B) 8

(C) 6

(D) 4

अधिक जानकारी

• अधिक जानकारी : (A) 10

99. एक वृत्त में एक चords की लंबाई 10 है, जो केंद्र से 6 इकाई दूरी पर है। इस वृत्त की त्रिज्या क्या है?

(A) -

(B) 8

(C) $10\sqrt{2}$

(D) 10

अधिक जानकारी

• अधिक जानकारी : (B) 8

100. एक वृत्त में एक चords की लंबाई 10 है, जो केंद्र से 6 इकाई दूरी पर है। इस वृत्त की त्रिज्या क्या है?

(A) $10\sqrt{2}$

(B) $10\sqrt{3}$

(C) $10\sqrt{4}$

(D) $10\sqrt{5}$

अधिक जानकारी



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••žŸ : (C) æ x ° , ..., » Ä ~ æ Ä E ‡ f ± ‡ , ^ 3 ^ ° ‡ α , ,

101. ,€ • • • œ € Š ¢ – ‡ ‹ “ • Š • ¡ ‘ Š ¢ • €³ Š • › ‡ Š • œ

- (A) Ø 'žžE,,
(B) »—
(C) 1 »— „%1š°
(D) 1 ¢%žž

œ • ž Ÿ%oq

••• žŸ : (A) Ø ‘ ‡Ž€,,

102. •Â• €Š ~ËœœŠ< •œ

- (A) $3 \cdot 10^{11}$, „ $\overline{\text{TM}}$ “
 (B) $6 \cdot 10^{15}$, „ $\overline{\text{TM}}$ “
 (C) 6×10^{24} , „ $\overline{\text{TM}}$ “
 (D) $7 \cdot 10^{30}$, „ $\overline{\text{TM}}$ “

æ • ž Ÿ%oq

••• žŸ : (C) 6×10^{24} , „ TMH

103. ...»- ž • • €š æ ^ ‡ €š f • › ‡š • œ

- (A) 28 £%
- (B) 12 £%
- (C) 6 £%
- (D) 24 £%

æ • ž Ÿ%oq

••• $\ddot{Y} : (D) 24 \text{ \pounds \%}$

104. $f: \mathbb{R} \rightarrow \mathbb{R}, f(x) = x^2 + 2x + 1$



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- (A) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(B) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(C) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(D) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

• • •

• • • : (D) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

105. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

- (A) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(B) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(C) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(D) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

• • •

• • • : (C) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

106. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

- (A) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(B) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(C) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(D) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

• • •

• • • : (A) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

107. $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$ $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

- (A) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(B) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(C) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$
(D) $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

• • •



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••žŸ : (A) É~ f† - †f† •'

108. «š šÆ, •' f† •œ†» " •€š

- (A) ě-f^ 1Çf† •'
- (B) ě-f^ É~ f† •'
- (C) † •,ž..., f'f ž• f† •'
- (D) ••œ%Çf† •', μž É~ f† •'

œ •ž Ÿ%q

••žŸ : (B) ě-f^ É~ f† •'

109. " fœŁ< ^>ÇŁ ℓ " €šÁ •œ

- (A) œ - †' „š
- (B) f† • „š
- (C) ÇŁ% „š
- (D) ...% „š

œ •ž Ÿ%q

••žŸ : (A) œ - †' „š

110. ~šš šĭ •• «f €š €^ - <šŁ

- (A) 1Çf† •'
- (B) É~ f† •'
- (C) ••œ%Çf† •', μž É~ f† •'
- (D) † •,ž..., f'f ž• f† •'

œ •ž Ÿ%q

••žŸ : (A) 1Çf† •'

111. €- ĭ •Č•Ł ••%š† € †•œ



(A) - □ „† •Đī f^†...
 (B) - □ „† Ć-f^
 (C) - □ „† É^Ž...
 (D) - □ „‰“...†• „š Ÿž

••žŸ : (D) - □ „%“...‡• „š ŸŽ

(A) ${}^1\text{C}$ - $\frac{1}{2}\text{C}$
 (B) $\frac{1}{2}\text{C}$ - $\frac{1}{2}\text{C}$
 (C) $\frac{1}{2}\text{C}$ - $\frac{1}{2}\text{C}$
 (D) $\frac{1}{2}\text{C}$ - $\frac{1}{2}\text{C}$

• • žŸ : (B) | • ,ž..., f'f ž • %†