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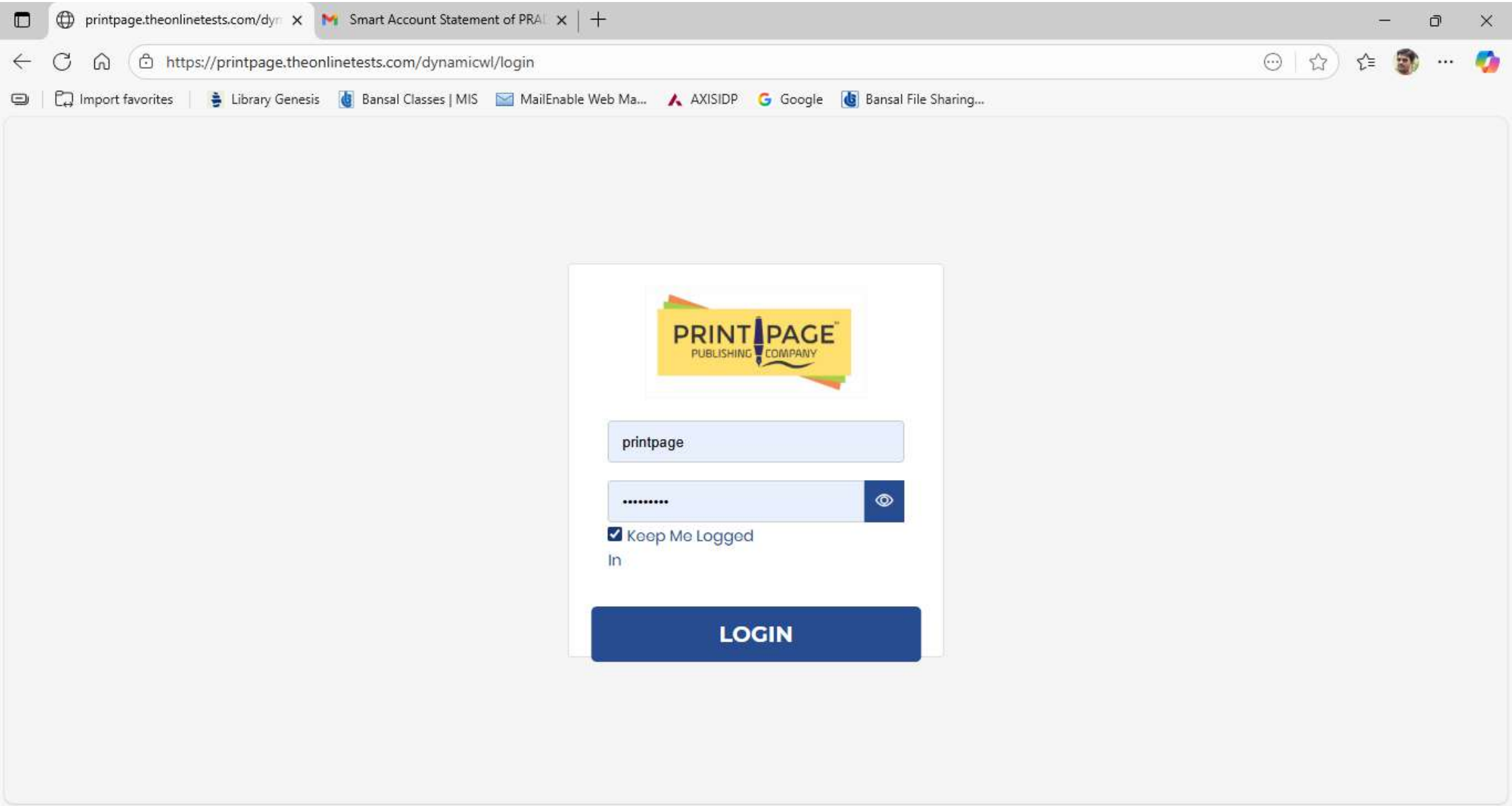
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Paper Code:

Custom Section: All

Question Paper Status: Active

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Created Date From: yyyy-mm-dd

Created Date To: yyyy-mm-dd

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SELECT	EXAM TYPE	PAPER CODE	PAPER DESCRIPTION	DURATION	CREATED BY	DATE	CUSTOM SEC...	QUESTION PA...	RANK REPORT	VIEW QUESTI...
☐	JEE Main	POTN_JEEMAIN_00005	CHEMISTRY SAMPLE PAPER	240	PRINT PAGE <printpage>	14-Aug-2025	No	Active		
☐	NEET	POTN_NEET_00004	NEET XI	90	PRINT PAGE <printpage>	14-Aug-2025	No	Active		

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Custom Section ⓘ No

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Choose Area

Chapter

Choose Chapter

No search performed. Select criteria and click search...

Summary of Added Questions

Difficulty Level

× Medium

Question Pattern

Single correct: MCQ

Question Subtype

MCQ

Include Used Questions

Yes No

Display Max

20

Past Year Questions

Search

Select All **Total Selected Questions:** 0

Q1 A particle executes SHM of amplitude 5 cm and period 3 s. The velocity of the particle at a distance 4 cm from the mean position $(\pi = 3)$ is

Medium

Single correct: MCQ

A. 8 cm/s

B. 12 cm/s

C. 4 cm/s

D. 6 cm/s

Report Error

View Details

Q2 The maximum potential energy of a block executing simple harmonic motion: is 25 J. A is amplitude of oscillation. At $\frac{A}{2}$. the kinetic energy of the block

Medium

Single correct: MCQ

Report Error

A. 18.75 J

Summary of Added Questions

Difficulty Level

× Medium

Question Pattern

Single correct: MCQ

Question Subtype

MCQ

Include Used Questions

(•) Yes ( ) No

Display Max

20

Past Year Questions

Search

Select All **Total Selected Questions:** 20

Q1 A particle executes SHM of amplitude 5 cm and period 3 s. The velocity of the particle at a distance 4 cm from the mean position $(\pi = 3)$ is

Medium

Single correct: MCQ

A. 8 cm/s

B. 12 cm/s

C. 4 cm/s

D. 6 cm/s

Report Error

View Details

Q2 The maximum potential energy of a block executing simple harmonic motion: is 25 J. A is amplitude of oscillation. At $\frac{A}{2}$. the kinetic energy of the block

Medium

Single correct: MCQ

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A. 18.75 J

Summary of Added Questions

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Difficulty Level

× Medium

Question Pattern

Single correct: MCQ

Question Subtype

MCQ

Include Used Questions

(•) Yes ( ) No

Display Max

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No

Subject Name	Total Questions
	Single correct: MCQ
Physics	20
Question Subtype	(20-MCQ)
Additional Instruction	Edit Instruction
Marking Scheme	C: 4, I: -1

Question Paper Description *

JEE

Detailed Description

MAIN

Exam Duration (In Minutes) *

30

Min : 10 minutes
Max : 240 minutes

Proceed to Review Questions

Proceed to Finalize

Physics

Physics (20)

- Each Question has **FOUR** options (A), (B), (C) and (D). **ONLY ONE** of these four options is correct
- Marking Scheme
  - FULL MARKS: +4 if only the alphabet corresponding to the correct option is selected
  - ZERO MARKS: 0 if none of the alphabet is selected
  - NEGATIVE MARKS: -1 in all other cases

Q1 1

Medium

Single correct: MCQ

A particle executes SHM of amplitude 5 cm and period 3 s. The velocity of the particle at a distance 4 cm from the mean position $(\pi = 3)$ is

A. 8 cm/s

B. 12 cm/s

C. 4 cm/s

D. $y = \frac{a\sqrt{3}}{2}$

Success

Question paper finalized.

Ok

Q20 20

Medium

Single correct: MCQ

A body of mass 1 kg is executing simple harmonic motion. Its displacement x (in cm) at time t (in second) is given by,

$$x = 6 \sin\left(100t + \frac{\pi}{4}\right)$$

The maximum kinetic energy of the body is -

A. 6 J

B. 18 J

C. 24 J

D. 36 J

Proceed to Finalize

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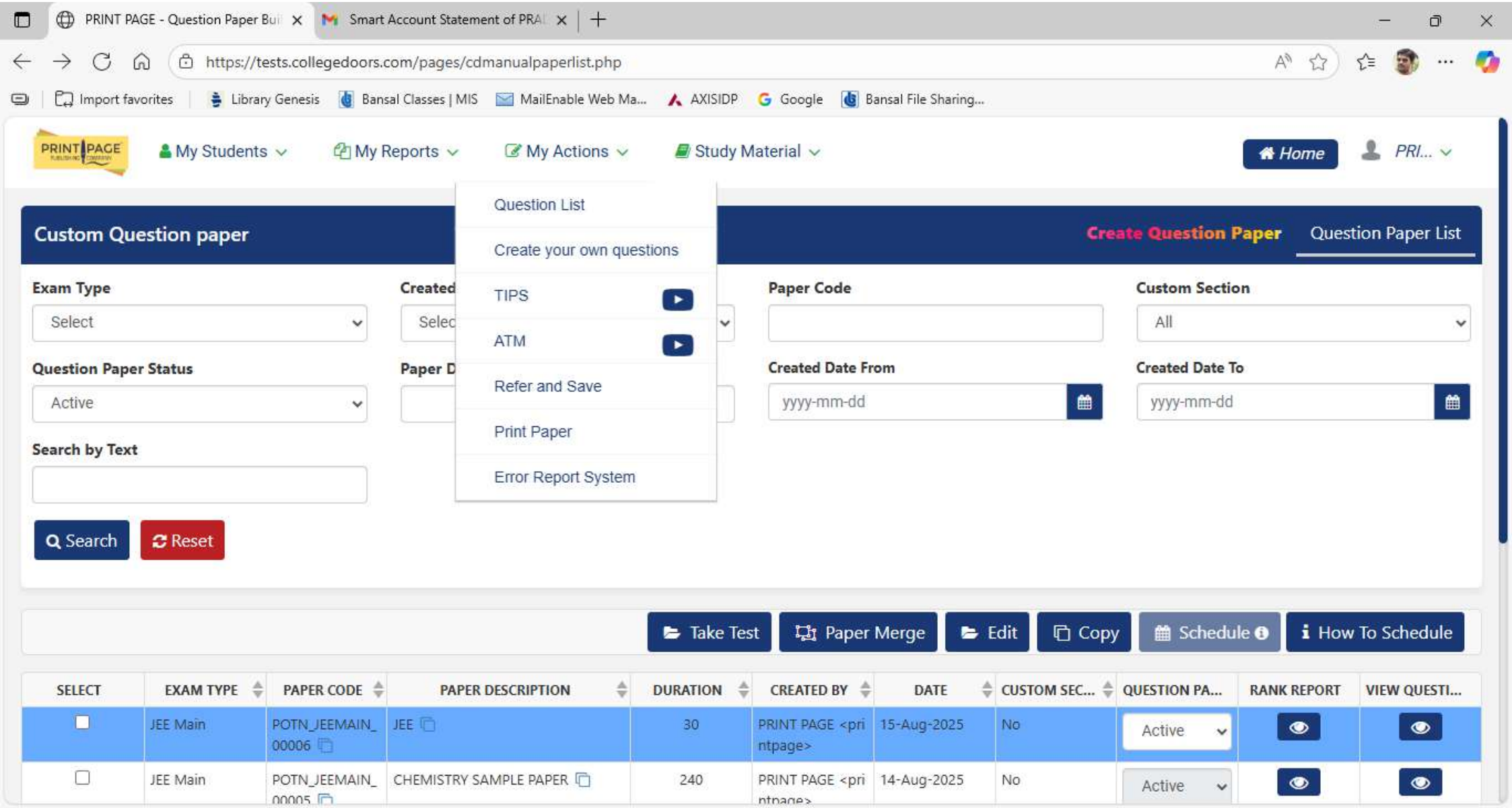
☐	JEE Main	POTN_JEEMAIN_00001	XI CLASS JEE MAIN PAPER	30	PRINT PAGE <printpage>	14-Aug-2025	No	Active		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4	POTN_JEEMAIN_00003	JEE	JEE Main	PRINT PAGE	14-Aug-2025 05:41 PM	Active	New
5	POTN_NEET_00002	NEET PAPER	NEET	PRINT PAGE	14-Aug-2025 12:33 PM	Active	New
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Exam *

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Repeat On Every Page

☐	17	P-MCSC00_SC00-531872	The length of a second pendulum at a height h = 2R from earth surface will be: (Given: R = Radius of earth and acceleration due to gravity at the surface of earth g = π^2m/s^{-2})	Physics	MCSC00_SC00	C: 4, I: -1	17	17	Physics
☐	18	P-MCSC00_SC01-192834	A spring of force constant k is cut into lengths of ratio 1: 2: 3. They are connected in series and the new force constant is K^1. Then they are connected in parallel and force constant is K". Then K': K" is:-	Physics	MCSC00_SC00	C: 4, I: -1	18	18	Physics
☐	19	P-MCSC00_SC00-439000	A particle starts executing simple harmonic motion (SHM) of amplitude 'a' and total energy E. At any instant, its kinetic energy is $\frac{3E}{4}$ then its displacement 'y' is given by	Physics	MCSC00_SC00	C: 4, I: -1	19	19	Physics
☐	20	P-MCSC00_SC01-371489	A body of mass 1 kg is executing simple harmonic motion. Its displacement x (in cm) at time t (in second) is given by, $x = 6 \sin\left(100t + \frac{\pi}{4}\right)$ The maximum kinetic energy of the body is -	Physics	MCSC00_SC00	C: 4, I: -1	20	20	Physics

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Select Section | Save & Map to Section

	Question	Question Image	Subject	Pattern	Marking Scheme	New Question Sequence	Current Question Sequence	Current Question paper section	New Question paper section
☑	1	P-MCSC00_SC02-19234	A particle executes SHM of amplitude 5 cm and period 3 s. The velocity of the particle at a distance 4 cm from the mean position ($\pi = 3$) is	Physics	MCSC00_SC00	C: 4, I: -1	1	1	Physics

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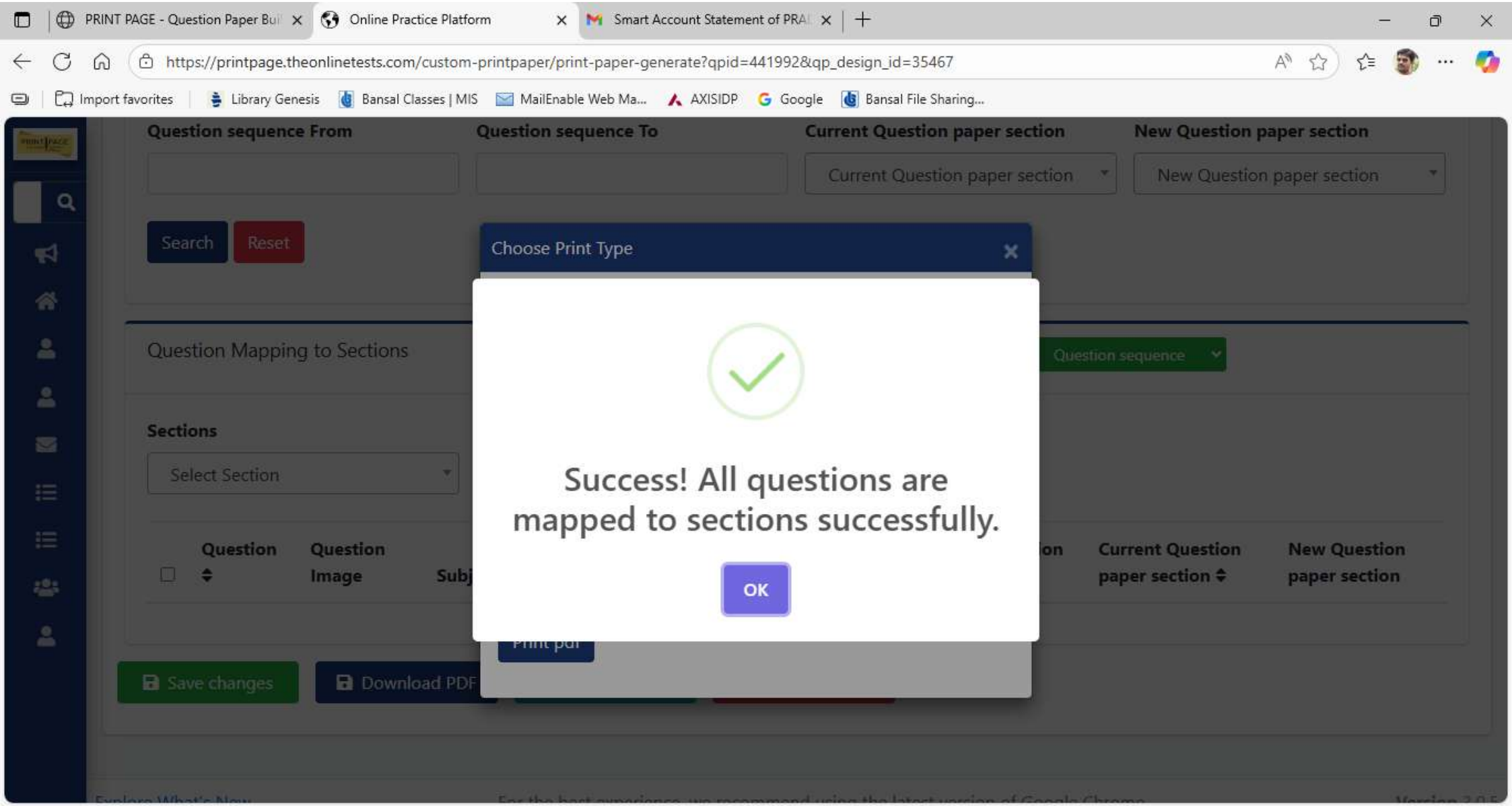
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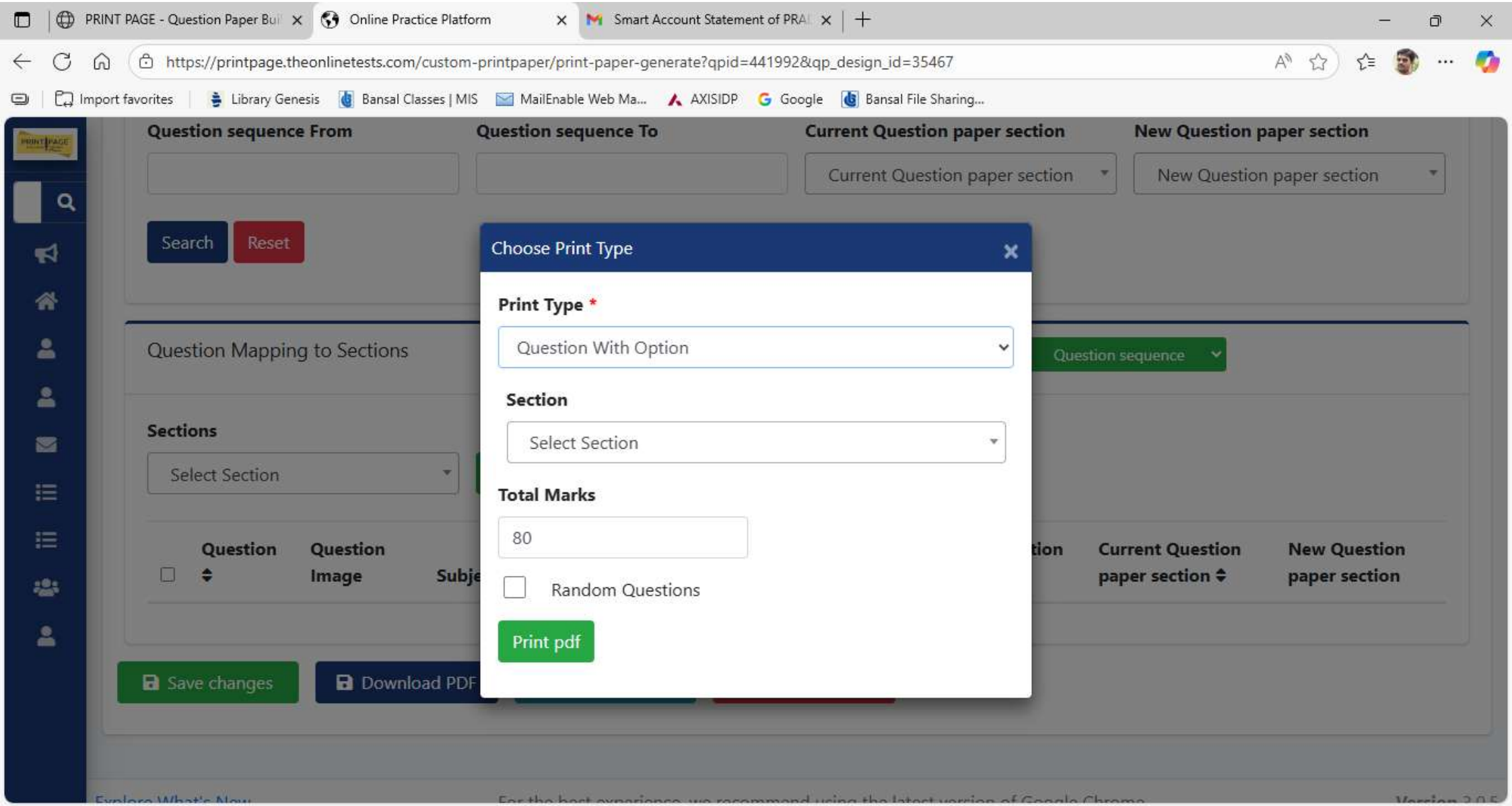
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Total Marks: 80 **Time: 30 Minutes**

Physics

Q.1 A particle executes SHM of amplitude 5 cm and period 3 s. The velocity of the particle at a distance 4 cm from the mean position ($\pi = 3$) is

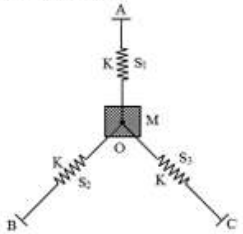
A) 8 cm/s B) 12 cm/s
C) 4 cm/s D) 6 cm/s

Q.2 The maximum potential energy of a block executing simple harmonic motion: is 25 J. A is amplitude of oscillation. At $\frac{A}{2}$. the kinetic energy of the block

A) 18.75 J B) 37.5 J C) 9.75 J D) 12.5 J

Q.3 A simple pendulum with a solid metal bob has a period T. The metal bob is now immersed in a liquid having density one-tenth that of the metal of the bob. The liquid is non-viscous. Now the period of the same pendulum with its bob remaining all the time in the liquid will be:

Q.6 Three springs each of force constant 'K' are connected at equal angles with respect to each other to a common mass 'M'. The other end of the springs is rigidly fixed. If the mass is pulled towards any one of the springs then the period of oscillation will be ($\cos 60^\circ = 0.5$)



A) $2\pi\sqrt{\frac{M}{K}}$ B) $2\pi\sqrt{\frac{2M}{3K}}$ C) $2\pi\sqrt{\frac{2M}{K}}$ D) $2\pi\sqrt{\frac{M}{2K}}$

Q.7 You are taking a nap on the couch. A pillow is supporting your head so that your head is in equilibrium. The pillow is dented downward 2 inches from its equilibrium shape. Someone walks into your room so you lift your head off the pillow. You then let your head fall freely against the pillow. Your head bounces off the pillow, denting the pillow downward 4 inches

the amplitude. The phase difference between the them is ($\sin 30^\circ = 0.5$)

A) $\frac{\pi}{6}$ B) $\frac{5\pi}{6}$ C) $\frac{\pi}{3}$ D) $\frac{2\pi}{3}$

Q.10 A particle is executing S.H.M. Its maximum acceleration is made two times keeping the maximum speed same. This is possible when

A) amplitude is doubled while frequency is halved.
B) amplitude is doubled while frequency remains same.
C) frequency is doubled while amplitude is halved.
D) frequency is doubled while amplitude remains constant.

Q.11 A particle performs harmonic oscillations along a straight line with a period T and amplitude a. The mean velocity of the particle averaged over the time interval during which it travels a distance a/2 starting from the extreme position is:

A) a/T B) 2a/T C) 3a/T D) a/2T

Q.17 The length of a second pendulum at a height h = 2R from earth surface will be:
(Given: R = Radius of earth and acceleration due to gravity at the surface of earth $g = \pi^2 m/s^2$)

A) $\frac{2}{9}$m B) $\frac{4}{9}$m C) $\frac{8}{9}$m D) $\frac{1}{9}$m

Q.18 A spring of force constant k is cut into lengths of ratio 1: 2: 3. They are connected in series and the new force constant is K'. Then they are connected in parallel and force constant is K". Then K': K" is:-

A) 1 : 9 B) 1 : 11 C) 1 : 14 D) 1 : 6

Q.19 A particle starts executing simple harmonic motion (SHM) of amplitude 'a' and total energy E. At any instant, its kinetic energy is $\frac{3E}{4}$ then its displacement 'y' is given by

A) $y = \frac{a}{\sqrt{2}}$ B) $y = 2$ C) $y = \frac{a}{2}$ D) $y = \frac{a\sqrt{3}}{2}$

Q.20 A body of mass 1 kg is executing simple harmonic motion. Its displacement x (in cm) at time t (in second) is given by,