

**Please Note about this document:**

Features mentioned in this document are super set of all features spread over all modules and versions that include Standard/ Professional/ Server variants of the Software. Some features may not essentially be a part of the version and module of the Software under procurement.

- This document should ideally be printed in COLOUR only or referred to in a soft copy.
- **Optional features** or features that are available as a part of certain Combo or higher versions have been (#) marked.

**Introduction**

1. Question Paper Generator has been developed by Addmen to overcome problem faced by the institution in conducting frequent tests. Making question papers is a repetitive and time consuming process which involves both teacher and the computer operator. Using the Question Paper Generator the same process can be accomplished in minutes even in absence of any operator.
2. The Addmen OMR Software is a proprietary software product and registered Trademark of M/s Admen Multi-Studios. The business firm has the ownership of the source code of the software.
3. Software has two variants: **Standard** and **Professional**. Both are for Standalone use as default.
4. Software can be deployed as **Standalone** (Desktop/ LAN) or **Online** (Server-Client) systems.
5. Software has a multi-lingual interface.
6. **Backend Database** : Standard version : **MS Access**; Professional version : **MS SQL Express**.
7. Addmen OMR is a part module of **Addmen Integrated Assessment Suite**, which comprises of following modules:
  - a. **Question Paper Generator** (Questions with diagram, formula, equation, images etc. in Word/Excel)
  - b. **OMR Software** (Capable of reading OMR, OCR, ICR, Barcode, Lithocode, Qcode and Photo capture)
  - c. **Online Test Software** (Computer based Test system available as Standalone or Cloud versions)
  - d. **EduApplet** (The Android extension for OMR, Quiz Pad, Online Test and Online Result modules)
  - e. **Online Application System** (for pre-exam data management and hall ticket generation)
  - f. **Digital Evaluation System** (for manual checking & scoring of Answer sheet image on internet)
8. Software setup is provided to the client and the user is able to install the software on any PC anytime at his own discretion and license policy supports this freedom.

## HOW IT WORKS?

The QPG process is a 4 Step process:

**STEP 1 >** Enter questions in Word / Excel files ....to create Question Bank Content Resource

**STEP 2 >** Allocate properties to questions .... to create an organized Question Bank.

**STEP 3 >** Define Blueprint ....to specify a Question Paper structure & composition.

**STEP 4 >** Generate Question Paper ....to get output in desired printable format with Answer key or Shuffle the questions.

The teacher who uses Question Paper Generator only has to specify the structure of his question paper, and gets results within minutes in form of a properly numbered ready to print question paper in the desired format along with an answer key & description sheet.

### Types of Questions handled

Multiple Choice
True or False
Column Matching
Fill in the blank
Theory
Diagram making
Numerical Answer
Common Passage

The Question Paper Generator Software **can handle all type of questions** with **Diagrams, Formulas, Equations & Pictures** can be included in the question and answer.

## Addmen Question Bank Software Overview

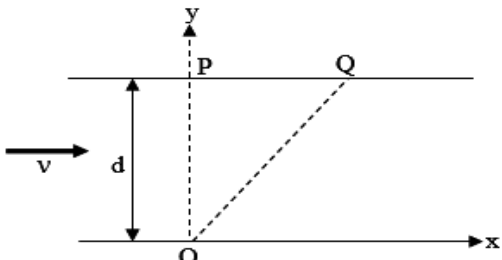


### Features for Question Bank – Data Entry and Classification

- Questions along with their options and answer key & description are stored and picked from MS Word/ Excel files.
- There is no need to retype or draw the questions into any specific Software bank formation panel.
- The question bank resource can be prepared in absence of this Question Paper Generator software by simply cut & paste of questions from existing question papers. You can edit/delete question any time.
- Questions entered in **Word file can contain text, formulae, equation, diagram, image, graph etc.**
- Questions entered in Excel file input can contain text based questions only in any language.
- Software also **handles questions in multiple languages** and can produce bilingual question papers.
- Question Bank can be maintained in which **questions are classified according to user defined filter** and statistical parameters.
- There is **no limit to the number of questions** that can be stored in the Question Bank.
- As many user defined tags can be created under user defined filters and then questions can be tagged with multiple tags under each filter.

First the questions are fed in the MS Word/ Excel file in a numbered sequence. Later they are indexed and tagged in the software according to user defined filters and property tags like Subject/ Unit/ Chapter/ Topic/ Category/ Difficulty/ Type etc.

### Addmen Question Bank Software Input QR file in MS Word

1	In same time (previous question) distance moved by swimmer w.r.t. earth will be	$\frac{L UV}{V^2 - U^2}$	$\frac{L V}{V + U}$	$\frac{L(V + U)}{U}$	$\frac{L(V + U)}{V}$	C
2	 <p>A swimmer starts swimming towards P but due to river flow it reaches point Q.  <math>v_{\text{river-earth}} = 5 \text{ m/s}</math>, <math>v_{\text{swimmer-river}} = 5 \text{ m/s}</math>  <math>d = 10 \text{ metre}</math>. Choose the correct option(s).</p>	time taken by the swimmer is <u>5 sec</u>	horizontal drift PQ = 25 m	velocity of swimmer w.r.t. earth is $\sqrt{29} \text{ m/s}$ .	it is not possible to reach point P.	A B D
3	Integer values of $\pi(g)$ will be					31
4	Match the scientists with their country of origin: A) Madam Curie P) Finland B) James Watt Q) India C) CV Raman S) Britain D) Thomas Higgs T) Scotland E) Steven Hawkings U) Germany					P-T-Q-S-S
5	Which nutrient mainly provides <u>energy</u> ?	Water	Protein	Carbohydrates	Vitamins	C
	किस पोषक तत्व का मुख्य कार्य ऊर्जा प्रदान करना है?	जल	प्रोटीन	कार्बोहाइड्रेट	विटामिन्स	

<b>Regular MCQ</b> 4-5 options in columns 2 to 7	<b>Objective Integer Response</b> No options provided	<b>Matrix Matching Type</b> Options included in question	<b>Bilingual Questions</b> Second language in next row
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(A word file with simple 8 column table made by user. Column1=Unique ID; Col2=Question; Col3-7=Options; Col8=Correct Answer & Description)

### Features for making Blueprint of Question Paper

18. Question Paper blueprint can be defined and stored for repeated use.
19. Question requirement in a blueprint specification can be based on count of question basis.
20. Question Paper could be from one or more than one subject /unit /chapter /topic.
21. Software provides instant count and list of questions available in the bank matching to given criteria.
22. # A blueprint can be further superimposed by other filters based on percent distribution of tags.

All you need to do is just specify how many question of a desired category /type /difficulty level, you want from which subject, unit and chapter. Depending upon the requirement specified by you the question paper is generated by the software.

Besides question papers you can also create assignment sheets.

### Features for Question Selection, Question Order and Shuffling

23. For any blue print, **Questions are selected using random selection.**
24. Questions **can also be selected manually** from the list of suitable questions shown onscreen.
25. While selection, **Software gives priority to least used questions.** So there is no possibility of repetition of questions if there are sufficient number of questions in the bank fulfilling every criteria.
26. **Same question is never repeated in same test.** Repetition of questions amongst different tests occurs only if there are no unused questions left in the bank that match a given criteria.
27. The User can specify the count for degree of freshness of questions to be included in search.
28. Software can provide **multiple groups of questions based on a single blueprint** requisition.
29. Each group of selected questions can be **shuffled to create several question paper sets.**
30. It is **possible to confine the shuffling within a specific section** or in the entire test paper.
31. # It is also **possible to shuffle the options.**
32. Question selection and Paper generation from the same interface. Selected **questions can be viewed before generating question paper.**
33. Software also **provides replacement suggestions by showing question that fulfill the same criteria** as the selected question.
34. Order of selected Questions suggested by software can be **manually overridden to alter sequence** of question.
35. The output can also be generated in the sequence of Question IDs.

The software takes intelligent decision to eliminate repeated questions and thus avoids the botheration of manual checking at the time of question feeding.



**Output Template and Formatting**

36. The output is in word file or excel sheet or Power point and can be edited manually.
37. The output is provided in pre-created and user defined templates.
38. The output word file is in almost ready printable state. If required can be modified externally.
39. There are several settings to alter the spacing padding and labelling properties at the time of paper generation.
40. **Answer keys can be automatically transferred to OMR module** for evaluation of tests.
41. **Software provides direct input for the Online Test Software.**
42. Software provides a spreadsheet of question mapping amongst several paper sets in a series.
43. Software provides a spreadsheet of question properties in a selected question paper.
44. # Software receives reverse input from the OMR evaluation software to dynamically update the statistical parameters of any given question used in a question paper.
45. # In presence of the Variable Data Printing module, it is possible to generate Question paper PDFs with added Header and page.

**Addmen Question Bank Software**  
**Paper Generation Interface**

The screenshot displays the 'QPG: STEP 2 > GENERATE PAPER PANEL' interface. It includes a 'SELECT BLUE PRINT' dropdown, a 'QUESTIONS' list, and a 'FILTER' section. The 'OUTPUT' section contains options for 'DUPLICATE CONTENT CHECK', 'LANGUAGE', 'FORMAT', and 'TEMPLATE'. The 'GENERATE' section has 'Question Shuffled Set' and 'Option Shuffled Sets' options. The 'COPY KEY' section includes 'Group/Set', 'OMR Test', and 'EXPORT KEY TO ACCESS' options. The 'REPORTS' section has a 'Shuffled Set Map' dropdown and an 'EXPORT' button. Callouts highlight features such as 'Select a user defined Blueprint', 'Settings to alter output layout properties', 'Preview and edit question', 'Language Variant', 'output format print or upload', 'Multiple group of questions for any blueprint', 'Alter Question order', 'Replace selected Question', 'Question and Option shuffling to create more sets', 'Several Mapping and Property reports', 'Copy Answers to OMR test or upload question to Online Test', 'Generate paper in user defined template', and 'Question replacement suggestion'.

## Input for Online Question Bank

The Online Question Bank requires the combined features of Question Paper Generator Software and the Online Test Software. Thus the online Question bank feature can be fully utilized only if the Question Bank Module is also procured with Online Test Module.

If you have the Question Paper Generator Software, then the uploaded bank can be indexed in detail. If the Question Bank Software aka Question Paper Generator Software is not used, then the Questions can be still uploaded to the Bank, but can be classified only according to single "Subject/Section" tag, that is selected while upload and it cannot be further classified to multiple levels.

## Addmen Question Bank Software Process Workflow

### STEP 1 (QPG Independant)

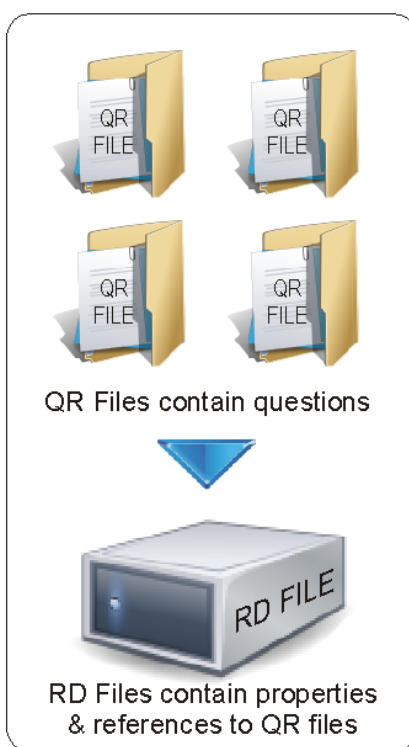


Operator enters Question Data in Word (QR) file

### STEP 2 (One Time Task)



Teacher defines properties of Question in RD File  
(Question Bank Panel)



QPG Data Folder in PC

### STEP 3 (One Time Task)



Teacher creates Blue Print library for Question Paper  
(Blue Print Panel)

### STEP 4 (Regular Task)



Users generate Paper output in minutes  
(Generate Paper Panel)

