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## PRACTICE QUESTION BOOK

*UPSC Engineering Services  
Preliminary Examinations Paper-I*



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## Preface

Engineering Services Exam (ESE) is one of most coveted exams written by engineering students aspiring for reputed posts in the country. As all the senior engineering posts come under the Government of India, ESE is conducted by the Union Public Services Commission (UPSC), and therefore the standards to clear this exam too are very high. To clear the ESE, a candidate needs to clear three stages – ESE Prelims, ESE Mains and Personality Test.

This practice question book is an endeavour by IES Master to help ESE aspirants clear the Paper-1 i.e. General Studies & Engineering Aptitude of the very first stage i.e. ESE Prelims. The Paper-1 carries 200 marks, and should not be taken lightly. With more than 3,000 practice questions sorted topic-wise, students will get a chance to quickly brush through all the topics in a short span. Practising as many questions possible will help candidates in going through whatever they have learned so far, and will count as a round of revision. The detailed solution for each question will help them identify their strengths and weaknesses, and build confidence before taking the real ESE Prelims. The detailed solutions will also help candidates in understanding the appropriate methods in answering a question and improve their speed and accuracy.

IES Master feels immense pride in bringing out this book as every care has been taken to build upon the exam preparedness of a student right up to UPSC standards. The credit for flawless preparing of this Practice question book for ESE aspirants goes to the entire team of IES Master Publications. Teachers, students, and professional engineers are welcome to share their suggestions to make this book more valuable.

**Mr. Kanchan Kumar Thakur**  
Director–IES Master

# CONTENTS

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1.	General Principles of Design, Drawing and Safety -----	1 – 75
2.	Basics of Material Science and Engineering -----	76 – 139
3.	Standards and Quality Practices -----	140 – 187
4.	Engineering Ethics -----	188 – 232
5.	Information & Communication Technology -----	233 – 282
6.	Basics of Energy and Environment -----	283 – 343
7.	Basics of Project Management -----	344 – 392
8.	Engineering Mathematics -----	393 – 473
9.	Engineering Aptitude -----	474 – 568



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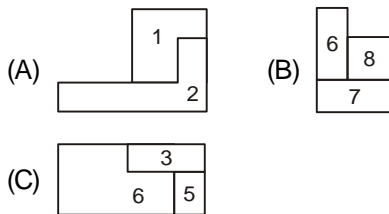
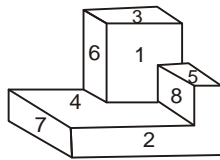
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# General Principles of Design, Drawing & Safety

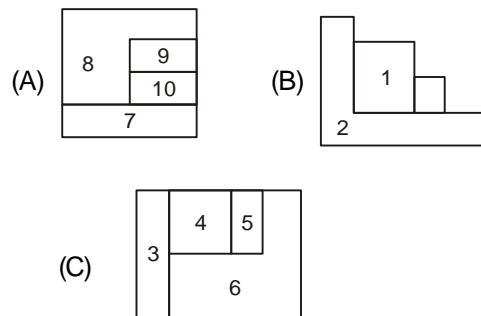
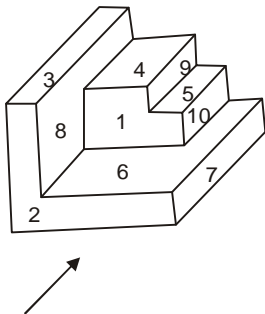
## DRAWING

1. For the given figure which statement is true



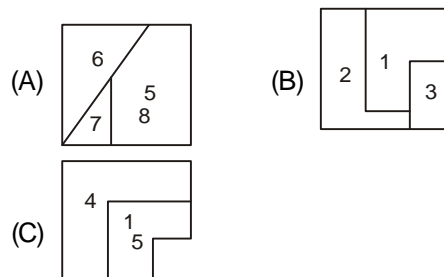
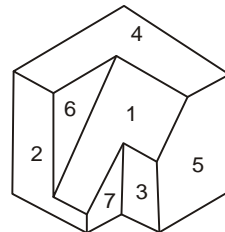
- (a) Fig A is front view, fig. (B) is side view
- (b) Figure (A) is front view, fig. (C) is side view
- (c) Figure (C) is top view and figure (B) is side view
- (d) None of the above

2. In the given figure which is top view of the given figure. When the object is seen in marked direction



- (a) Figure (A)
- (b) Figure (C)
- (c) Figure (B)
- (d) None of the above

3. For the given object which statement is correct:

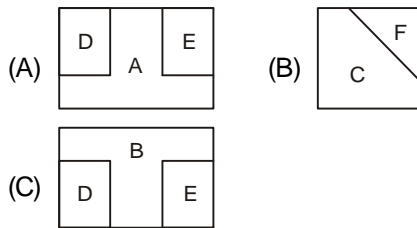
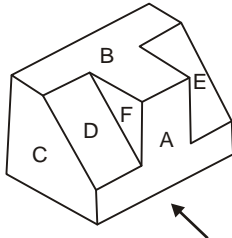


- (a) Figure (C) is front view of object
- (b) Figure (A) is side view of object



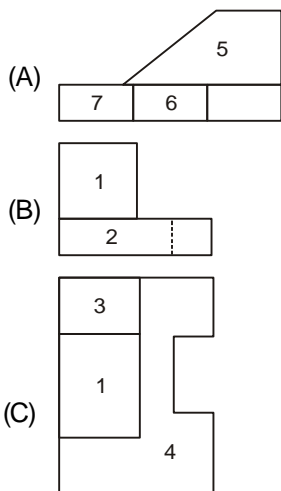
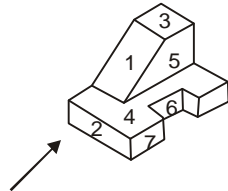
- (c) Figure (B) is front view of object
- (d) None of the above

4. For the given object Front, side and top view is given by



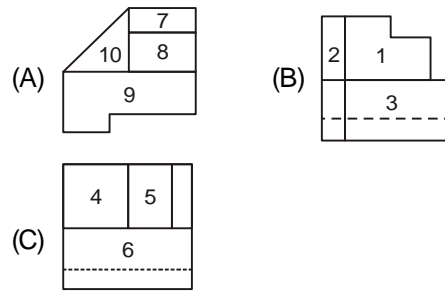
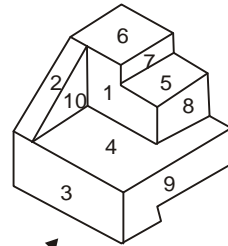
- (a) Figure (A), (B) & figure (C)
- (b) Figure (C), figure (B) & figure (A)
- (c) Figure (A), figure (C) & figure (B)
- (d) None of the above

5. In the given projection figure (C) represents



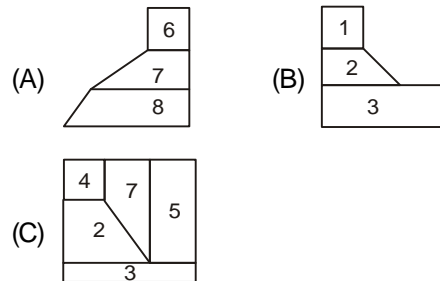
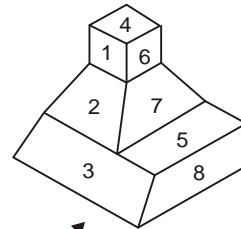
- (a) front view
- (b) side view
- (c) top view
- (d) None of the above

6. In the given projection figure (A) & (B) represents



- (a) side & front view
- (b) top and front view
- (c) front view & top view
- (d) none of the above

7. For the given views which statement is correct:



- (a) Fig. (A) gives side view
- (b) Fig. (B) gives front view
- (c) Fig. (C) gives top view
- (d) All of above are correct



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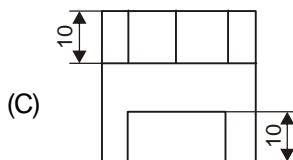
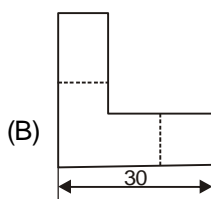
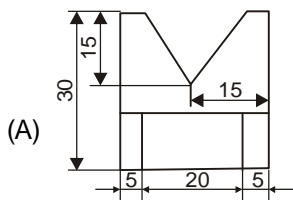
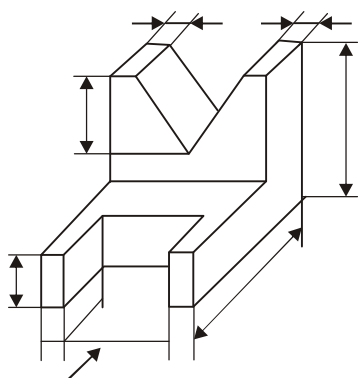
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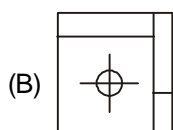
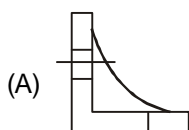
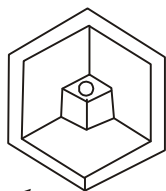
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8. In the given view which one of the view shows front view of the given object



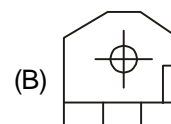
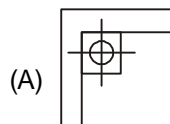
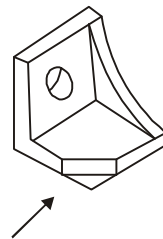
- (a) Figure (B)                      (b) Figure (A)  
 (c) Figure (C)                      (d) All

9. For the given object figure (A) represent



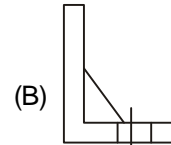
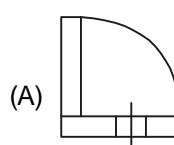
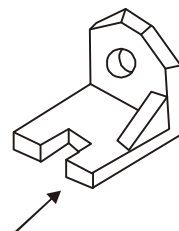
- (a) top                                      (b) side  
 (c) front                                      (d) none

10. For the given object figure (B) gives



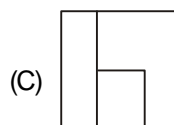
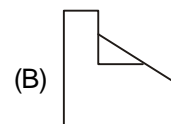
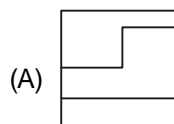
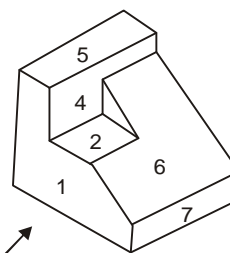
- (a) front                                      (b) top  
 (c) side                                      (d) none

11. In the given projected view figure (B) represents



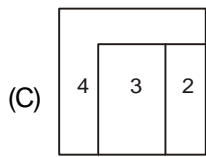
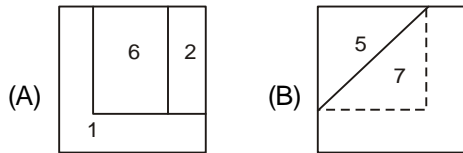
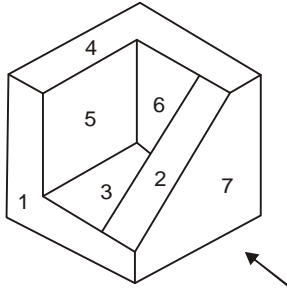
- (a) front                                      (b) side  
 (c) top                                      (d) none

12. In the given projected view figure (A) gives



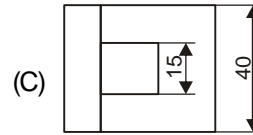
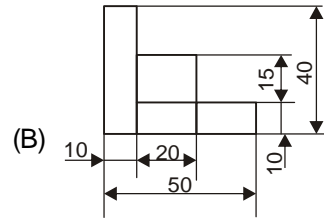
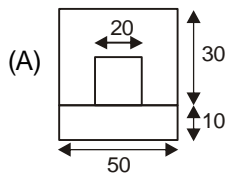
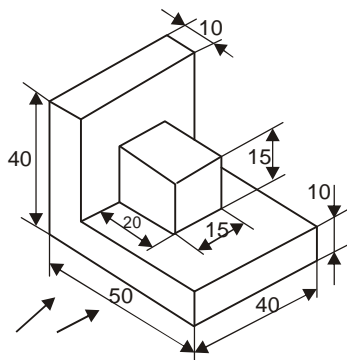
- (a) side view                      (b) top view  
 (c) front view                    (d) none of the above

13. In the given projected view of an object, front, side and top view is respectively given by



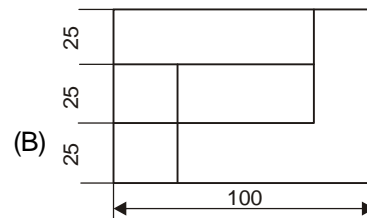
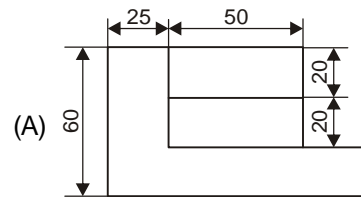
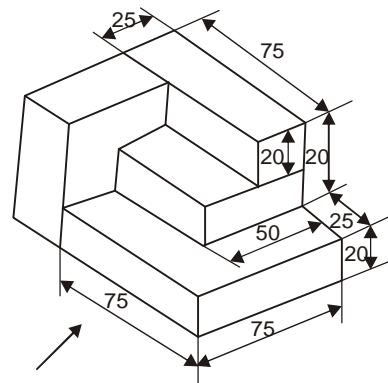
- (a) figure (A), figure (B), figure (C)  
 (b) figure (B), figure (C), figure (A)  
 (c) figure (B), figure (A), figure (C)  
 (d) figure (A), figure (C), figure (B)

14. Front view of the object is given by



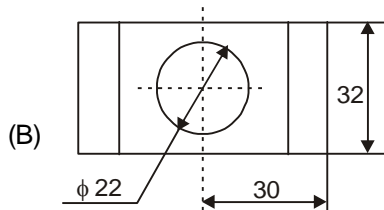
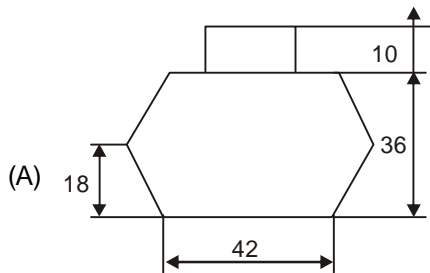
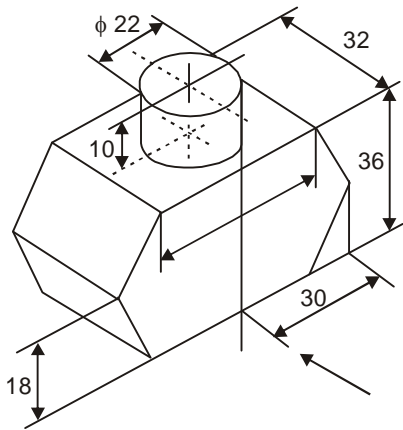
- (a) figure (B)                      (b) figure (A)  
 (c) figure (C)                      (d) none

15. In the given projection which figure represents the top view.

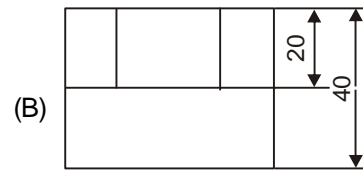
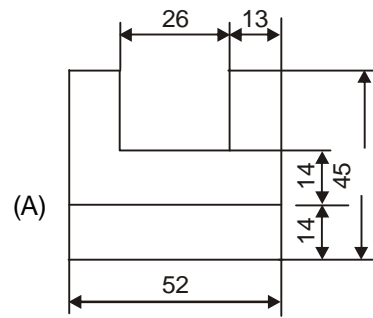
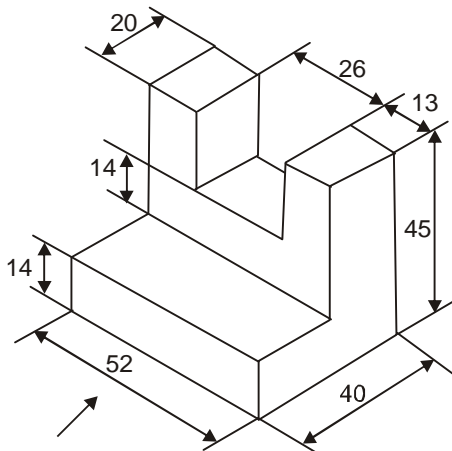


- (a) figure (A)                      (b) figure (B)  
 (c) both                              (d) neither (A) nor (B)

16. For the given projection which of the statement is correct :

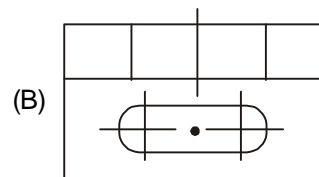
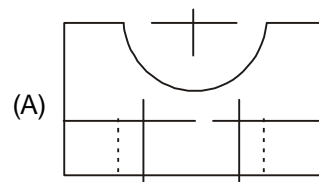
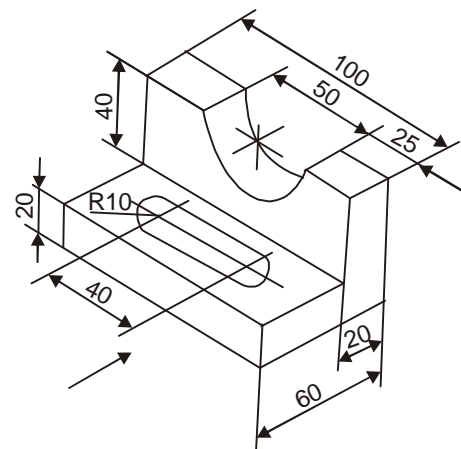


- (a) Fig. (A) is front & Fig. (B) is top view  
 (b) Fig. (B) is front & Fig. (A) is side  
 (c) Fig. (B) is side & Fig. (A) is front  
 (d) Fig. (A) is Top & Fig. (B) is front
17. For the given projection which statement is true :



- (a) it is an orthographic projection  
 (b) fig. (A) is front view  
 (c) fig. (B) is top view  
 (d) all of the above

18. Which of the statement is true for Fig. (A)



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