

DO NOT OPEN THE SEAL OF THE BOOKLET UNTIL YOU ARE TOLD TO DO SO

PW : No 771263

JE(C+E)-2009/1

Test Form No.
टेस्ट फार्म सं.
394 01 9

Time Allowed : 2 Hours

निर्धारित समय : 2 घंटे

PAPER I
प्रश्नपत्र I

Maximum Marks : 200
अधिकतम अंक : 200

Read the following instructions carefully before you begin to answer the questions.
This booklet contains questions in English as well as in Hindi.

प्रश्नों के उत्तर देने से पहले नीचे लिखे अनुदेशों को ध्यान से पढ़ लें।
इस पुस्तिका में प्रश्न अंग्रेजी तथा हिन्दी दोनों में दिये गये हैं।

INSTRUCTIONS TO CANDIDATES

- This Booklet contains 100 questions in all comprising the following two tests:
Test (i) General Awareness (25 Questions)
Test (ii) (A) General Engineering (Civil and Structural) (75 Questions)
OR
Test (ii) (B) General Engineering (Electrical and Mechanical) (75 Questions)
- Test (i) (General Awareness) is compulsory for all the candidates. Candidates are required to attempt either Test-(ii) (A) or Test-(ii) (B) as per option in the application form given by the candidates failing which, you will be awarded 'ZERO' mark.
- All questions are compulsory and carry equal marks.
- Before you start to answer the questions you must check up this booklet and ensure that it contains all the pages (1-48) and see that no page is missing or repeated. If you find any defect in this booklet, you must get it replaced immediately.
- There will NOT be any negative marking for wrong answers.
- You will be supplied the Answer Sheet separately by the Invigilator. Before you actually start answering the questions, you must complete the details of Ticket Number, Roll Number, Test Form Number and Stream i.e. Civil and Structural OR Electrical and Mechanical etc., on Side-I of the Answer Sheet carefully. You must also put your signatures on the Answer Sheet at the prescribed place before you start answering the questions. These instructions must be fully complied with failing which your Answer Sheet will not be evaluated and you will be awarded 'ZERO' mark. A machine will read the coded information in the OMR Answer-Sheet. In case the information is incomplete/different from the information given in the application form, the candidature of such candidate will be treated as cancelled.
- Answers must be shown by completely blackening the corresponding rectangles on Side-II of the Answer Sheet against the relevant question number by HB pencil only. Answers which are not shown by HB pencil will not be awarded any mark.
- The Answer Sheet must be handed over to the Invigilator before you leave the Examination Hall.
- Failure to comply with any of the above instructions will render a candidate liable to such action/penalty as may be deemed fit.
- The manner in which the different questions are to be answered has been explained at the back of this Booklet (Page No. 48), which you should read carefully before actually answering the questions.
- Answer the questions as quickly and as carefully as you can. Some questions may be difficult and others easy. Do not spend too much time on any question.
- No rough work is to be done on the Answer Sheet. Space for rough work has been provided below the questions in Test (ii) of this booklet.

उम्मीदवारों के लिए अनुदेश

- इस पुस्तिका में कुल 100 प्रश्न हैं, जिनमें निम्नलिखित दो परीक्षण शामिल हैं :
परीक्षण (i) सामान्य जानकारी (25 प्रश्न)
परीक्षण (ii) (क) सामान्य इंजीनियरी (सिविल एवं संरचनात्मक) (75 प्रश्न)
अथवा
परीक्षण (ii) (ख) सामान्य इंजीनियरी (विद्युत एवं यंत्रिक) (75 प्रश्न)
- परीक्षण (i) सामान्य जानकारी सभी उम्मीदवारों के लिए अनिवार्य है। उम्मीदवारों को आवेदन-पत्र में दिए विकल्प के अनुसार या तो परीक्षण (ii) (क) या परीक्षण (ii) (ख) को हट कराना होगा, अन्यथा आपको 'शून्य' अंक दिया जाएगा।
- सभी प्रश्न अनिवार्य हैं तथा सबके बराबर अंक हैं।
- प्रश्नों के उत्तर देने से पहले आप इस पुस्तिका की जांच करके देख लें कि इसमें पूरे पृष्ठ (1-48) हैं तथा कोई पृष्ठ कम या दुबारा तो नहीं आ गया है। यदि आप इस पुस्तिका में कोई त्रुटि पाएँ तो तत्काल इसके बदले दूसरी पुस्तिका ले लें।
- सब प्रश्नों के लिए कोई नकारात्मक अंकन नहीं होगा।
- निरीक्षक द्वारा आपको उत्तर-पत्रिका अलग से दी जाएगी। प्रश्नों के उत्तर वास्तव में शुरू करने से पहले आप उत्तर-पत्रिका के Side-I में अपना टिकट नम्बर, रोल नम्बर, टेस्ट फार्म संख्या तथा विषय अर्थात् सिविल एवं संरचनात्मक या विद्युत एवं यंत्रिक आदि अवश्य लिखें। प्रश्नों के उत्तर देने से पहले उत्तर-पुस्तिका पर निर्धारित स्थान में आप अपने हस्ताक्षर भी अवश्य करें। उपर्युक्त अनुदेशों का पूरी तरह अनुपालन किया जाए अन्यथा आपकी उत्तर-पत्रिका को जांचा नहीं जाएगा और शून्य अंक दिया जाएगा। ओ.एम.आर. उत्तर-पत्रिका में भरी गई कूट सूचना को एक पंक्ति पढ़ेंगी। यदि सूचना अपूर्ण है अथवा आवेदन प्रश्न में दी गई सूचना से भिन्न है, तो ऐसे अभ्यर्थी की अस्पष्टता निरस्त समझी जाएगी। उत्तर-पत्रिका में सभी उत्तर Side-II में प्रश्न संख्या के सामने दिये गये सम्बन्धित आयताकार छानों को HB पेंसिल से पूरी तरह काला करके दिखायें। जो आयताकार छाने HB पेंसिल से नहीं भरे जायेंगे उनके लिए कोई अंक नहीं दिया जायेगा।
- परीक्षा-पत्रन छोड़ने से पहले परीक्षार्थी को उत्तर-पत्रिका निरीक्षक के हवाले कर देनी चाहिए।
- उपर के अनुदेशों में से किसी एक का भी पालन न करने पर उम्मीदवार पर विवेकानुसार कार्यवाही की जा सकती है या दण्ड दिया जा सकता है।
- विभिन्न प्रश्नों के उत्तर देने की विधि इस पुस्तिका के पीछे (पृष्ठ संख्या 48) में छपे हुए निर्देशों में दी गई है; इन्हें आप प्रश्नों के उत्तर देने से पहले ध्यानपूर्वक पढ़ लें।
- प्रश्नों के उत्तर जितना जल्दी हो सके तथा ध्यानपूर्वक दें। कुछ प्रश्न आसान तथा कुछ कठिन हैं। किसी एक प्रश्न पर बहुत अधिक समय न लगाएँ।
- कोई रफ कार्य उत्तर-पत्रिका पर नहीं करना है। रफ कार्य के लिए स्थान इसी पुस्तिका के परीक्षण (ii) के प्रश्नों के नीचे दिया गया है।

इस पुस्तिका की सील तब तक न खोलें जब तक कहा न जाए।

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जाति स्थान 1/10/2010

3/11/201 - CPWD

TEST (i)

GENERAL AWARENESS

1. The present Governor of RBI is
 - (A) K.C. Reddy
 - (B) D. Subbarao
 - (C) Kiran Kamik
 - (D) Deepak Parekh

2. Who has been adjudged as Businessperson of the Year, 2008 by The Times of India Survey ?
 - (A) Mukesh Ambani
 - (B) Rahul Bajaj
 - (C) Aditya Birla
 - (D) Ratan Tata

3. What will happen to the temperature of a closed room if the refrigerator inside is switched ON with its door kept open ?
 - (A) It will fall
 - (B) It will rise
 - (C) It will be constant
 - (D) It will fluctuate

4. The Sun and the Moon appear elliptical near the horizon due to
 - (A) interference
 - (B) illusion
 - (C) diffraction
 - (D) refraction

5. Who is the author of the book 'Q & A' on which the film 'Slumdog Millionaire' is based ?
 - (A) Vikas Swarup
 - (B) Salman Rushdie
 - (C) Taslima Nasreen
 - (D) Anita Sood

6. Which one of the following cricketers had been awarded the 'Rajiv Gandhi Khel Ratna Award' (2007) ?
 - (A) Sachin Tendulkar
 - (B) M.S. Dhoni
 - (C) Saurav Ganguly
 - (D) Anil Kumble

7. Which one of the following Presidents of India has taken a 30-minute sortie in a Sukhoi fighter plane of the Indian Air Force ?
 - (A) A.P.J. Abdul Kalam
 - (B) S. Radhakrishnan
 - (C) V.V. Giri
 - (D) R. Venkataraman

8. The famous Kohinoor diamond was presented to Humayun by the king of
- (A) Persia
 - (B) Gwalior
 - (C) Kandahar
 - (D) Marwar
9. The first Muslim female ruler of Delhi was,
- (A) Chand Bibi
 - (B) Nur Jehan
 - (C) Razia Sultana
 - (D) Jehan Ara
10. The Golden Quadrilateral Project is related to
- (A) Waterways
 - (B) Airways
 - (C) Roadways
 - (D) Railways
11. Chandragupta II got the title of 'Vikramaditya' meaning equal to
- (A) Sun God
 - (B) Agni
 - (C) Vayu
 - (D) Indra
12. The main reason for the execution of Guru Arjun Singh was that
- (A) he was conspiring against Mughals
 - (B) he refused to embrace Islam
 - (C) he had blessed Prince Khusro who had revolted against Jahangir
 - (D) Jahangir did not like him
13. The shifting cultivation in Assam is referred to as
- (A) Valra
 - (B) Podu
 - (C) Bewar
 - (D) Jhum
14. Large destructive sea waves resulting from an earthquake are called
- (A) Tidal waves
 - (B) Subduction
 - (C) Currents
 - (D) Tsunami
15. Transpiration would be minimum when there is
- (A) bright sunlight
 - (B) high humidity
 - (C) wind blowing
 - (D) high temperature
16. Without using soil, plants can also be grown in
- (A) distilled water
 - (B) salt solution
 - (C) sugar solution
 - (D) nutrient solution
17. Tamil Nadu remains dry during the South-West monsoon period because
- (A) it lies in the rain shadow region
 - (B) of the presence of Eastern Ghats
 - (C) of Palghat and Thalghat passes
 - (D) of wider coastal plains

34. When turning long shaft on a lathe, its bending can be prevented by
- (A) running the shaft at low speed
 - (B) using high speed
 - (C) using sturdy machine
 - (D) using steady rest
35. The operation of sharpening a grinding wheel is called
- (A) trueing
 - (B) dressing
 - (C) aligning
 - (D) balancing
36. A universal dividing head is used to perform a milling operation by
- (A) plain indexing
 - (B) direct indexing
 - (C) differential indexing
 - (D) compound indexing
37. In grinding operation, for grinding harder material
- (A) coarser grain size is used
 - (B) fine grain size is used
 - (C) medium grain size is used
 - (D) any grain size may be used
38. A cantilever beam is deflected by d due to load P . If load is doubled, then deflection compared to earlier case will be changed by a factor of
- (A) 2
 - (B) $\frac{1}{2}$
 - (C) $\frac{1}{8}$
 - (D) 8
39. Principal plane is one which carries
- (A) no shear stress
 - (B) maximum shear stress
 - (C) no normal stress
 - (D) maximum resultant of stresses
40. Hooke's law holds good upto
- (A) yield point
 - (B) limit of proportionality
 - (C) breaking point
 - (D) elastic limit
41. The percentage reduction in area in case of cast iron when it is subjected to tensile test is of the order of
- (A) 0%
 - (B) 10%
 - (C) 20%
 - (D) 25%

SPACE FOR ROUGH WORK

42. Which of the following machines does **not** require quick return mechanism ?
- (A) Slotter
 - (B) Planer
 - (C) Shaper
 - (D) Broaching
43. Milling machine is classified as horizontal or vertical type, depending on the position of
- (A) spindle
 - (B) work piece
 - (C) milling cutter
 - (D) work table or bed
44. In which of the following operations on lathe, will the spindle speed be minimum ?
- (A) Knurling
 - (B) Fine finishing
 - (C) Taper turning
 - (D) Thread cutting
45. For drilling operation, the cylindrical job should always be clamped on a
- (A) collet
 - (B) socket
 - (C) jaw
 - (D) V-block
46. Which of the following is **not** a casting process ?
- (A) Carthias process
 - (B) Extrusion
 - (C) Semi-centrifuge method
 - (D) Slush process
47. In arc welding, arc is created between the electrode and work by
- (A) flow of current
 - (B) voltage
 - (C) material characteristics
 - (D) contact resistance
48. Oxygen to acetylene ratio in case of neutral flame is
- (A) 0.8 : 1.0
 - (B) 1 : 1
 - (C) 1.2 : 1
 - (D) 2 : 1
49. The taper provided on pattern for its easy and clean withdrawal from the mould is called
- (A) taper allowance
 - (B) draft allowance
 - (C) distortion allowance
 - (D) pattern allowance

SPACE FOR ROUGH WORK