



PGDC-Model Paper

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Important Notice about the Entrance test for PGDC-2008 (CET-2008)

Admission to PGDC-2008 (CET-2008)

Information for the students

- Admit cards shall be dispatched to the students at their latest mailing address latest by 28th May 2008.
- In case any candidate does not receive, the same could be downloaded after 5th June 2008.
- For any queries, please send e-mails in the following email ID.

pdnpti@yahoo.com.

- All the candidates have been given the centre of examination as per their preference given in column 14 of the application form.

Contact Phone Numbers: 011-26940722 / 26952083 / 26971551

Question pattern for the CET

Total number of Questions - 120 Numbers

Questions breakup

1. General Aptitude - 30 Numbers
2. General Engineering & Science - 30 Numbers
3. Engineering Specialization - 60 Numbers
Viz. Mechanical or Electrical/EEE or Electronics/ECE/Instrumentation

A Sample question paper for the examination is given in the following pages.

The following is the model question papers for the 90 minutes CET.
Sample Paper

Q1. to Q30 Part-I. General Aptitude (common)

Q1. If TEST is to be coded as SERT then STUDENT is to be coded as

- i. RTUCDMS
- ii. RTTDDNV
- iii. RTTDDNS
- iv. SSUCEMT

Q2. What is the smallest number that may be added to make 899 a perfect cube root?

- i. 71
- ii. 101
- iii. 171
- iv. 1

Q3. At what price a car is to be sold to get 20% gain If its purchase price is of Rs. 80,000/- ?

- i. Rs. 92000
- ii. Rs. 96000
- iii. Rs. 64000
- iv. Rs. 95000

and so on

Q31. to Q60. General Engineering/Science (Common)

Q31. 1 Horse power(HP) is equal to

- i. 726 Watts
- ii. 736 Watts
- iii. 746 Watts
- iv. 732 Watts

Q32. The function of a fuse in an electrical circuit is to

- i. heat up
- ii. protect by opening circuit
- iii. sort by melting the circuit
- iv. fuse for formation of alloy

Q33. For proper combustion, the following materials are required

- i. proper fuel
- ii. adequate air
- iii. heat
- iv. all the above

and so on.

PART-II

Q61. to Q120 Model question paper (Mechanical Specialization)

Q61. A perfect engine works on the Carnot cycle between 1000degree centigrade and 200 degree centigrade. The efficiency of the engine will be

- i. 80%
- ii. 60%
- iii. 62.8%
- iv. 37.2%

Q62. At critical point the enthalpy of vaporization is

- v. zero
- vi. Minimum
- vii. Maximum
- viii. Unpredictable

Q63. When a strip made of iron and copper is heated

- i. It gets twisted
- ii. Iron bends on convex side
- iii. Iron bends on concave side
- iv. The strip breaks away

And so on

PART-II

Q61. to Q120 Model question paper (Electrical Specialization)

Q61. The percent regulation of the alternator at unity power factor is

- i. 1.05
- ii. 10.5
- iii. 21.5
- iv. 27.5

- Q62. Zero power factor method of an alternator is used to find its
- i. field resistance
 - ii. armature resistance
 - iii. efficiency
 - iv. voltage regulation

- Q63. An induction motor is
- i. self-starting with zero torque
 - ii. self-starting with high torque
 - iii. self-starting with small torque as compared to rated torque
 - iv. assisted starting with zero torque

and so on

PART-II

Q61. to Q120 Model question paper (Electronics/Electronics & Communication / Instrumentation Specialization)

- Q61. The intrinsic stand off ratio (η) of a UJT lies between
- i. zero
 - ii. Greater than 1
 - iii. $0.5 < \eta < 1$
 - iv. $0 < \eta < 0.5$

- Q62. In a single phase dual converter, α_1 and α_2 are firing angles of the two converters. Then
- i. $\alpha_1 - \alpha_2 = \pi/2$
 - ii. $\alpha_1 + \alpha_2 = \pi$
 - iii. $\alpha_1 - \alpha_2 = \pi$
 - iv. $\alpha_1 + \alpha_2 = \pi/2$

- Q63. Microwave antenna aperture efficiency depends on
- i. Feed pattern
 - ii. Low side lobe levels
 - iii. Surface losses
 - iv. Antenna aperture

and so on
