

QP Code: 002A

A

DO NOT OPEN THIS BOOKLET: UNTIL YOU ARE ASKED TO DO SO

TIME ALLOTTED: 60 MINUTES

MAXIMUM MARKS: 80

**INSTRUCTIONS**

*This test booklet contains two sections. The Domain related MCQ and General Aptitude Section. Please note that both the sections have different Question Paper set codes. It is important that both the set codes are mentioned in the relevant portions of OMR sheet without fail.*

1. Immediately after the commencement of the examination, you should check that this test booklet does not have any unprinted or torn or missing pages or items, etc. If so get it replaced by a complete test booklet.
2. Please follow instructions in the "Answer Booklet" closely.
3. You have to mark all your responses ONLY on the separate answer sheet (OMR Sheet) provided. See directions in the answer sheet.
4. There is **no negative marking**. You are encouraged to attempt all questions.
5. Marking of multiple answers for the same question, correction by over- writing or scratching will lead to disqualification.
6. There will be no additional rough sheets issued. Do your rough work in the separate space provided herein.
7. Use of Chits, calculator, mobile phones, Bluetooth, Google Glass, GPRS enable electronics, including watch etc., is not allowed. Any candidate who is found using these or having this on his or her person will be disqualified.
8. Reminder: Two set codes (Domain and General Aptitude needs to be separately mentioned in the Answer Booklet).
9. The answer sheets in which set codes of are not mentioned will be treated as invalid.

**Set Codes**

<b>Domain Booklet Set Code</b>	<b>A</b>
<b>General Aptitude Booklet Set Code</b>	<b>1</b>

**Section Wise Number of Questions and their Marking is as follows:**

<b>Section</b>	<b>Total Questions</b>	<b>Total Marks</b>
General Aptitude Questions	Q No. 1 to Q No. 20	20 Marks
Domain Questions	Q No. 21 to Q No. 50	60 Marks

**All the best!**

- 1) Which year did the All India Council for Technical Education (AICTE) come into existence?
  - a) 1945
  - b) 1947
  - c) 1951
  - d) 1955
  
- 2) \_\_\_\_\_ District has become the India's first district to have 100% solar-powered health center?
  - a) Kolkata
  - b) Chennai
  - c) Bengaluru
  - d) Surat
  
- 3) Which of following Indian State/Union Territory has become first in the country to issue e-Stamp papers in all denominations?
  - a) Delhi
  - b) Puducherry
  - c) Karnataka
  - d) Maharashtra
  
- 4) Who is the present Education Minister of Bihar?
  - a) Sri Nitish Kumar
  - b) Sri K.N. Prasad Verma
  - c) Sri Ashok Choudhary
  - d) Sri Jay Prakash Narayan Yadav
  
- 5) Who is the present Director of Development Management Institute, Patna?
  - a) Sri Hemnath Rao Hanumankar
  - b) Sri C.V Krishna Murthy
  - c) Sri Anup Mukerji
  - d) Sri Niraj Kumar
  
- 6) If  $A + B$  means A is the mother of B;  $A - B$  means A is the brother B;  $A \% B$  means A is the father of B and  $A \times B$  means A is the sister of B, which of the following shows that P is the maternal uncle of Q?
  - a)  $Q - N + M \times P$
  - b)  $P + S \times N - Q$
  - c)  $P - M + N \times Q$
  - d)  $Q - S \% P$
  
- 7) One morning Udai and Vishal were talking to each other face to face at a crossing. If Vishal's shadow was exactly to the left of Udai, which direction was Udai facing?
  - a) East
  - b) West
  - c) North
  - d) South
  
- 8) Look at this series: 36, 34, 30, 28, 24, ...  
What number should come next?
  - a) 20
  - b) 22
  - c) 23
  - d) 26
  
- 9) FAG, GAF, HAI, IAH, \_\_\_\_\_
  - a) JAK
  - b) HAL
  - c) HAK
  - d) JAI
  
- 10) Introducing a boy, a girl said, "He is the son of the daughter of the father of my uncle." How is the boy related to the girl?
  - a) Brother
  - b) Nephew
  - c) Uncle
  - d) Son-in-law



- 21) Which among the following is an example of Corrective Maintenance?  
a) Infrared Testing  
b) Vibration Analysis  
c) Oil Analysis  
d) Emergency Repair
- 22) Which among the following options is a simple example for Condition Based Maintenance (CBM)?  
a) The 'Low Tyre Pressure Warning Light' on the dashboard of a vehicle  
b) The 'Left or Right Turn Indicator Lights' attached to a vehicle  
c) Both option 'A' and option 'B'  
d) None of these
- 23) Which of the statements given below is true?  
a) Preventative Maintenance and Scheduled Maintenance are one and the same  
b) Preventatives Maintenance is based on simple examination of the machines/parts at a set interval  
c) Preventive Maintenance is carried out based on expert analysis of each part of a machine  
d) Scheduled Maintenance is carried out based on expert analysis of each part of a machine
- 24) The term 'RCM' in the context of 'Maintenance' stands for \_\_\_\_\_  
a) Reaction Centered Maintenance  
b) Reliability Centered Maintenance  
c) Both option 'A' and option 'B'  
d) None of these
- 25) Which among the following is a maintenance strategy?  
a) Run to Failure  
b) Preventative Maintenance  
c) Both option 'A' and option 'B'  
d) None of these
- 26) CATV stands for \_\_\_\_\_ with respect to communication and information dissemination.  
a) Competency Assessment Television  
b) Community Access Television  
c) Cable Attached Television  
d) None of the above
- 27) Developing responses in advance for various situations that might impact business is \_\_\_\_\_  
a) Development Planning  
b) Contingency Planning  
c) Logistics Planning  
d) Strategic Planning
- 28) Which of the grade of aluminum does not respond to heat treatment?  
a) Alloy 1100  
b) Alloy 2011  
c) Alloy 2024  
d) None of these
- 29) Scatter Diagrams' are used to detect \_\_\_\_\_  
a) Experimental Error  
b) Interference  
c) Correlation  
d) Interaction
- 30) What is the minimum sample size usually prescribed under 'Central Limit Theorem'?  
a) 10  
b) 20  
c) 30  
d) 40
- 31) From which location are the first computer instructions available on boot up?  
a) ROMBIOS  
b) CPU  
c) Boot.ini  
d) CONFIG.SYS

- 32) Missing slot covers on a computer can cause \_\_\_\_\_
- a) Power surges
  - b) Incomplete path or ESD
  - c) Overheat
  - d) None of these
- 33) With respect to computers; which among the following issues could cause a 'Fixed Disc Error'?
- a) Slow Processor
  - b) Incorrect CMOS Settings
  - c) CD not Installed
  - d) None of these
- 34) Among the given options below what is the best way to protect your hard drive data?
- a) Periodically defrag it
  - b) Run Scan Disc at least once in a week
  - c) Run a Regular Diagnostic
  - d) Regular Backups
- 35) How many print wires does a Serial Dot Matrix Printer usually contain in each column?
- a) 3
  - b) 6
  - c) 7
  - d) 9
- 36) What among the following options would you do to prevent 'Motor Failure' of a Dot Matrix Printer?
- a) Check the tension on the print-head-positioning belt
  - b) Clean the printer's roller surfaces
  - c) Clean and Lubricate Mechanism
  - d) None of these
- 37) Which component in a 'Serial Attached Small Computer System Interface' allows multiple SAS devices to share a single initiator port?
- a) Service Delivery Subsystem
  - b) Expander
  - c) Target
  - d) None of these
- 38) EPROM contents can be erased by exposing it to .....
- a) Ultraviolet Rays
  - b) Infrared Rays
  - c) Burst of Microwaves
  - d) Intense Heat Radiations
- 39) A Voltmeter is used \_\_\_\_\_
- a) to measure current
  - b) in series with the circuit
  - c) in parallel with the circuit
  - d) to measure coulombs
- 40) A voltage will influence current only if the circuit is .....
- a) Insulated
  - b) High resistance
  - c) Open
  - d) Closed
- 41) What is the technical term that describes the weight of all walls, partitions, floors and roofs, and includes the weights of all other permanent constructions (including built-in partitions, finishes, cladding and other similarly incorporated architectural and structural items, weight of fixed service equipment) in a building as per NBCC 2016?
- a) Gross Weight
  - b) Net Load
  - c) Living Load
  - d) Dead Load

- 42) In high rise buildings, what is the minimum frequency for fire drill be held after the first 2 years of construction, as per NBCC 2016?
- a) Every 3 months
  - b) Every 6 months
  - c) Every 12 months
  - d) Every 18 months
- 43) What is the minimum open space requirement in metres for an Educational Institution, other than nursery schools, as per NBC 2016?
- a) 3 m
  - b) 6 m
  - c) 9 m
  - d) 12 m
- 44) As per NBC 2016, what is the optimal distance for placement of lights for lighting of Walkway?
- a) 1 to 10 m
  - b) 10m to 20m
  - c) 20m to 30m
  - d) 20m to 40m
- 45) As per NBC 2016, what is the maximum height of light fixture for lighting of Walkways?
- a) 1 metre from ground level
  - b) 2 metres from ground level
  - c) 3 metres from ground level
  - d) 4 metres from ground level
- 46) As per NBC 2016, what are accessible toilets that can be used by both sexes termed as?
- a) Unisex Accessible Toilet
  - b) Gender Neutral Bio Toilet
  - c) Both A and B
  - d) None of the above
- 47) As per NBC 2016, which of the following is the technical name of a bar used to give a steadying or stabilizing assistance to a person engaged in a particular function?
- a) Support Bar
  - b) Stabilizing Bar
  - c) Grab Bar
  - d) Hang Bar
- 48) What is the Minimum Clear Width that shall be provided for Staircases in Educational Institutions as per NBC 2016?
- a) 1.00 Metre
  - b) 1.50 Metre
  - c) 1.75 Metre
  - d) 2.0 Metre
- 49) As per Table 23 of NBC 2005, which of the following is NOT a minimum requirement for Fire Fighting Installations?
- a) Fire Extinguisher
  - b) Automatic Sprinkler System
  - c) Manually Operated Electric Fire Alarm Systems
  - d) Standby Generator
- 50) Under the National Building Code 2005, under which group does Educational Buildings fall?
- a) Group A
  - b) Group B
  - c) Group C
  - d) Group D

## Rough Work

