

# National Testing Agency

<b>Question Paper Name :</b>	Accreditation for Undergraduate 30 Sep 2020 Shift 1
<b>Subject Name :</b>	Accreditation for Undergraduate Engineering Programmes
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## Accreditation for Undergraduate Engineering Programmes

<b>Group Number :</b>	1
<b>Group Id :</b>	89951484
<b>Group Maximum Duration :</b>	0
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<b>Show Attended Group? :</b>	No
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<b>Break time :</b>	0
<b>Group Marks :</b>	100
<b>Is this Group for Examiner? :</b>	No

## Accreditation for Undergraduate Engineering Programmes

<b>Section Id :</b>	899514100
<b>Section Number :</b>	1
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	100
<b>Number of Questions to be attempted :</b>	100

<b>Section Marks :</b>	100
<b>Mark As Answered Required? :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	899514122
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 8995147407 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

In September 1994, National Board of Accreditation (NBA) was established by:

1. Govt. of India
2. All India Council for Technical Education (AICTE)
3. Ministry of Human Resources, Govt. of India
4. University Grants Commission (UGC)

**Options :**

- 89951429258. 1
- 89951429259. 2
- 89951429260. 3
- 89951429261. 4

**Question Number : 2 Question Id : 8995147408 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

Accreditation of engineering and technology programmes in India is done by

1. National Assessment and Accreditation Council (NAAC)
2. All India Council for Technical Education (AICTE)
3. University Grants Commission (UGC)
4. National Board of Accreditation (NBA)

**Options :**

- 89951429262. 1
- 89951429263. 2
- 89951429264. 3

89951429265. 4

**Question Number : 3 Question Id : 8995147409 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

Following is **not** a statutory committee of NBA:

1. General Council (GC)
2. Executive Committee (EC)
3. Academic Advisory Committee (AC)
4. Appellate Committee

**Options :**

89951429266. 1  
89951429267. 2  
89951429268. 3  
89951429269. 4

**Question Number : 4 Question Id : 8995147410 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

Through accreditation following purpose is **not** served

1. Support and advice to technical institutions in the maintenance and enhancement of their quality of provision
2. Confidence and assurance on quality to various stakeholders including students;
3. Assurance of the good standing of an Institution to government departments and other interested bodies;
4. Grading of programmes and institutions

**Options :**

89951429270. 1  
89951429271. 2  
89951429272. 3  
89951429273. 4

**Question Number : 5 Question Id : 8995147411 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

The body of NBA recommends award of the Accreditation is:

1. Moderation Committee
2. Evaluation and Accreditation Committee
3. Academic Advisory Committee
4. Sub committee of Academic Advisory Committee

**Options :**

89951429274. 1  
89951429275. 2  
89951429276. 3  
89951429277. 4

**Question Number : 6 Question Id : 8995147412 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

The body of NBA that awards Accreditation is:

1. Evaluation and Accreditation Committee
2. Executive Committee
3. Academic Advisory Committee
4. Sub committee of Academic Advisory Committee

**Options :**

89951429278. 1  
89951429279. 2  
89951429280. 3  
89951429281. 4

**Question Number : 7 Question Id : 8995147413 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

Following is **not** included in the award of (accreditation)

1. Provisional accreditation of 2 years
2. Accreditation of the Programme for Six years;
3. Accreditation of the Programme for Three years;
4. No accreditation of the Programme

**Options :**

89951429282. 1

89951429283. 2

89951429284. 3

89951429285. 4

**Question Number : 8 Question Id : 8995147414 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Following is **not** a part of NBA accreditation policy:

1. NBA accreditation is mandatory
2. NBA accredits selected technical Programs of institutions and not the Institutions or its Departments / Centres as a whole.
3. Programs to be accredited should be offered by an educational Institution, which has been formally approved by the AICTE or the concerned regulatory authority.
4. Programs from which at least two batches of students have graduated are considered for accreditation. The program should continuously be running without break with approval of the concerned regulatory authority during the whole duration of last two batches.

**Options :**

89951429286. 1

89951429287. 2

89951429288. 3

89951429289. 4

**Question Number : 9 Question Id : 8995147415 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

In case visit of the Expert Team to an Institute is conducted. between 1st July to 31<sup>st</sup> December, the accreditation period would be from:

1. The date of award of accreditation
2. The date of exit meeting (The last day of on site visit)
3. 1<sup>st</sup> July of next year (Next academic year).
4. 1<sup>st</sup> July of on-going academic year (Current academic year)

**Options :**

89951429290. 1

89951429291. 2

89951429292. 3

89951429293. 4

**Question Number : 10 Question Id : 8995147416 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

If a program is 'not accredited' or withdrawn during the visit, a fresh application for accreditation of the same program can be considered ----- after the date of previous visit of the Visiting Team.

1. 6 months
2. 9 months
3. One year
4. Two year

**Options :**

89951429294. 1

89951429295. 2

89951429296. 3

89951429297. 4

**Question Number : 11 Question Id : 8995147417 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Following is **not** a part of NBA accreditation policy:

1. The title of a program to be accredited must be the same as shown on the graduating student's degree and the approval letters of the concerned regulatory authority.
2. Visiting Team, while evaluating the programs, should ascertain overlapping of resources and faculty for programs in an institution where AICTE has granted approval for 1st shift and 2nd shift.
3. Part-time programs are considered for accreditation.
4. Institutions are required to represent the accreditation status of each program accurately and without ambiguity. If accreditation is withdrawn or discontinued or expires, the institution should no longer refer to the program as accredited.

**Options :**

89951429298. 1

89951429299. 2

89951429300. 3

89951429301. 4

**Question Number : 12 Question Id : 8995147418 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The registration fee for institutions (excluding applicable taxes) to apply for NBA accreditation is:

1. Rs 1,00,000
2. Rs 1,50,000
3. Rs 2,00,000
4. Rs 5,00,000

**Options :**

89951429302. 1  
89951429303. 2  
89951429304. 3  
89951429305. 4

**Question Number : 13 Question Id : 8995147419 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The processing fee (**excluding applicable taxes**) to be paid by institutions for NBA accreditation of 2 degree Engineering programmes is:

1. Rs. 2 Lakhs
2. Rs. 4 Lakhs
3. Rs. 5 Lakhs
4. Rs. 10 Lakhs

**Options :**

89951429306. 1  
89951429307. 2  
89951429308. 3  
89951429309. 4

**Question Number : 14 Question Id : 8995147420 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**



In case an Institution requests for withdrawal of the program or programs applied by it after its application has been approved in NBA for further processing and the fee has been paid by the institution, ----- of the accreditation fee per program paid by the Institution shall be deducted while refunding the fee as per the request of the Institute.

1. 10%
2. 15%
3. 20%
4. 25%

**Options :**

89951429310. 1  
89951429311. 2  
89951429312. 3  
89951429313. 4

**Question Number : 15 Question Id : 8995147421 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

India became full signatory of the Washington accord in :

1. 1989
2. 2000
3. 2014
4. 2019

**Options :**

89951429314. 1  
89951429315. 2  
89951429316. 3  
89951429317. 4

**Question Number : 16 Question Id : 8995147422 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

In pre qualifier format for **Tier II** institutions essential qualifier with respect to admissions **at institute level** , whether admissions in the undergraduate programs averaged over CAY, CAYm1 and CAYm2 (i.e., for last three years) at the Institute level has been more than or equal to -----.

1. 50%
2. 60%
3. 70%
4. 75%

**Options :**

89951429318. 1  
89951429319. 2  
89951429320. 3  
89951429321. 4

**Question Number : 17 Question Id : 8995147423 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

In pre qualifier format for **Tier I** institutions essential qualifier with respect to admissions **at programme level** , whether admissions in the undergraduate program averaged over CAY, CAYm1 and CAYm2 (i.e., for last three years) at the Programme level has been more than or equal to -----.

1. 50%
2. 60%
3. 70%
4. 75%

**Options :**

89951429322. 1  
89951429323. 2

89951429324. 3

89951429325. 4

**Question Number : 18 Question Id : 8995147424 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

In pre qualifier format for **Tier I** institutions essential qualifier with respect to FSR, Whether faculty student ratio in the department under consideration is better than or equal to 1: 25 averaged over \_\_\_\_\_.

1. CAY
2. CAY & CAYm1
3. CAY, CAYm1 & CAYm2
4. None of the above

**Options :**

89951429326. 1

89951429327. 2

89951429328. 3

89951429329. 4

**Question Number : 19 Question Id : 8995147425 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

In pre qualifier format for **Tier II** institutions essential qualifier with respect to faculty, whether at least \_\_\_\_\_ on regular basis with Ph.D. degree is available in the respective Department during CAY and CAYm1

1. One Professor
2. One Associate Professor
3. One Professor or Associate Professor
4. One Professor and Associate Professor

**Options :**

89951429330. 1

89951429331. 2

89951429332. 3

89951429333. 4

**Question Number : 20 Question Id : 8995147426 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

In pre qualifier format for **Tier I** institutions essential qualifier with respect to faculty, whether number of available PhDs in the department is greater than or equal to \_\_\_\_\_ of the required number of faculty averaged for CAY and CAYm1.

1. 25%
2. 20%
3. 10%
4. 5%

**Options :**

89951429334. 1

89951429335. 2

89951429336. 3

89951429337. 4

**Question Number : 21 Question Id : 8995147427 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

In pre qualifier format, whether HODs possess Ph.D. degree for the programs under consideration, is applicable for:

1. Tier I Institutions
2. Tier II Institutions
3. Both, Tier I Institutions and Tier II Institutions
4. None

**Options :**

89951429338. 1  
89951429339. 2  
89951429340. 3  
89951429341. 4

**Question Number : 22 Question Id : 8995147428 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Following is not component of Outcome Based Education (OBE):

1. Outcome based curriculum
2. Outcome based teaching –learning
3. Outcome based assessment
4. Outcome of Placement Cell

**Options :**

89951429342. 1  
89951429343. 2  
89951429344. 3  
89951429345. 4

**Question Number : 23 Question Id : 8995147429 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Focus of OBE is on:

1. Placement and packages
2. Grades and Marks
3. Achievement of defined Outcomes
4. Completion of Course

**Options :**

89951429346. 1

89951429347. 2

89951429348. 3

89951429349. 4

**Question Number : 24 Question Id : 8995147430 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

One of defining characteristic of OBE is:

1. Learner Centric Approach
2. Well defined textbooks
3. Out of syllabus questions in exams
4. Focuses entirely on psychomotor abilities/domain

**Options :**

89951429350. 1

89951429351. 2

89951429352. 3

89951429353. 4

**Question Number : 25 Question Id : 8995147431 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Vision is

1. Ideal desired state of Institution in a future point of time.
2. A pipe dream
3. Usually unrealistic
4. Usually unachievable

**Options :**

89951429354. 1

89951429355. 2

89951429356. 3

89951429357. 4

**Question Number : 26 Question Id : 8995147432 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No  
Correct Marks : 1 Wrong Marks : 0**

Following is **not** true

1. Vision statement typically indicates aspirations
2. Mission statement states the broad approach to achieve aspirations
3. Institute Vision is Vision of Leader/ Head
4. There should be consistency between Institute Vision and Mission and Departmental Vision and Mission.

**Options :**

89951429358. 1

89951429359. 2

89951429360. 3

89951429361. 4

**Question Number : 27 Question Id : 8995147433 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No  
Correct Marks : 1 Wrong Marks : 0**

Program Educational Objectives are broad statements that describe.

1. The career and professional accomplishments that the program is preparing graduates to achieve
2. The abilities Graduates of the programme have
3. Ethics and soft skills of graduates
4. Placement and salary packages of graduates

**Options :**

- 89951429362. 1
- 89951429363. 2
- 89951429364. 3
- 89951429365. 4

**Question Number : 28 Question Id : 8995147434 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Identify statement which is **NOT TRUE** for Traditional Input based education

1. Teacher centric approach
2. Assessment on demonstration of achievement of outcomes
3. Mostly Passive Learning
4. Low engagement Lower order thinking skills & learning

**Options :**

- 89951429366. 1
- 89951429367. 2
- 89951429368. 3
- 89951429369. 4

**Question Number : 29 Question Id : 8995147435 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**



Identify which is **NOT** an Internal Stakeholder

1. Staff
2. Faculty
3. Students
4. Funding agencies

**Options :**

89951429370. 1

89951429371. 2

89951429372. 3

89951429373. 4

**Question Number : 30 Question Id : 8995147436 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No  
Correct Marks : 1 Wrong Marks : 0**

Identify which is **NOT** an external stakeholder

1. Management of the Institute
2. Funding agencies
3. Industries
4. Employers

**Options :**

89951429374. 1

89951429375. 2

89951429376. 3

89951429377. 4

**Question Number : 31 Question Id : 8995147437 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No  
Correct Marks : 1 Wrong Marks : 0**

Programme Educational Objectives (PEOs) are achieved :

1. At the time of graduation
2. 3-5 Years after graduation
3. During Graduation
4. At the beginning of career

**Options :**

89951429378. 1

89951429379. 2

89951429380. 3

89951429381. 4

**Question Number : 32 Question Id : 8995147438 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

NBA Visiting team **does not** check for following in the Vision Statement

1. Availability of statement
2. Appropriateness/Relevance of the Statement
3. Consistency between Institute and Departmental statements
4. ISO certification of statement

**Options :**

89951429382. 1

89951429383. 2

89951429384. 3

89951429385. 4

**Question Number : 33 Question Id : 8995147439 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Vision, Mission and PEO should be well disseminated to:

1. Employers
2. Parents
3. Internal and External Stakeholders
4. None of the above

**Options :**

89951429386. 1

89951429387. 2

89951429388. 3

89951429389. 4

**Question Number : 34 Question Id : 8995147440 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Consistency of PEOs is established with:

1. Vision of the Institute
2. Mission of the Institute
3. Vision of the Department
4. Mission of the Department

**Options :**

89951429390. 1

89951429391. 2

89951429392. 3

89951429393. 4

**Question Number : 35 Question Id : 8995147441 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

PEOs are defined for the:

1. Institute
2. Department
3. Programme
4. Course

**Options :**

89951429394. 1

89951429395. 2

89951429396. 3

89951429397. 4

**Question Number : 36 Question Id : 8995147442 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No  
Correct Marks : 1 Wrong Marks : 0**

Curriculum does not usually contain in OBE :

1. Course Outcomes
2. Course Content
3. Examination Schedule
4. Textbooks and Reference Books

**Options :**

89951429398. 1

89951429399. 2

89951429400. 3

89951429401. 4

**Question Number : 37 Question Id : 8995147443 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No  
Correct Marks : 1 Wrong Marks : 0**

NBA SAR requires description of processes followed to improve quality of Teaching & Learning, these **does not** include

1. Adherence to academic calendar
2. Improving instruction methods using pedagogical initiatives such as real world examples,
3. Collaborative learning,
4. Rote learning

**Options :**

89951429402. 1

89951429403. 2

89951429404. 3

89951429405. 4

**Question Number : 38 Question Id : 8995147444 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

With respect to Industry Institute Interaction for curriculum implementation, NBA accreditation requires:

1. Industry owned colleges
2. Industry decided Programme Outcomes
3. All faculty must have industrial experience
4. Industry involvement in program such as industry-attached laboratories, partial delivery of appropriate courses by industry experts

**Options :**

89951429406. 1

89951429407. 2

89951429408. 3

89951429409. 4

**Question Number : 39 Question Id : 8995147445 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Following is **not true** about Programme Outcomes (PO)

1. POs are statements that describe what students are expected to know and be able to do upon graduating from the program.
2. These relate to the skills, knowledge, analytical ability, attitude and behaviour that students acquire through the program.
3. POs define the professional profile of an engineering graduate.
4. POs has to be defined by the Institute for each programme Separately

**Options :**

- 89951429410. 1
- 89951429411. 2
- 89951429412. 3
- 89951429413. 4

**Question Number : 40 Question Id : 8995147446 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

**Programme Specific Outcomes:**

1. Are achieved at the time of joining the programme
2. Are achieved at the time of Graduation
3. Are achieved 3-5 years after the graduation
4. Are prerequisite for admission in an engineering college.

**Options :**

- 89951429414. 1
- 89951429415. 2
- 89951429416. 3
- 89951429417. 4

**Question Number : 41 Question Id : 8995147447 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

No. of Programme Outcomes (POs) defined by NBA for Undergraduate Engineering Programmes are:

1. 9
2. 10
3. 11
4. 12

**Options :**

- 89951429418. 1
- 89951429419. 2
- 89951429420. 3
- 89951429421. 4

**Question Number : 42 Question Id : 8995147448 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Following PO has not been defined/ included by NBA

1. Engineering Creativity
2. Engineering Knowledge
3. Problem Analysis
4. Project Management and Finance

**Options :**

- 89951429422. 1
- 89951429423. 2
- 89951429424. 3
- 89951429425. 4

**Question Number : 43 Question Id : 8995147449 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Following PO deals with soft Skills

1. Engineering Knowledge
2. Problem Analysis
3. Communication
4. Modern Tool usage

**Options :**

89951429426. 1

89951429427. 2

89951429428. 3

89951429429. 4

**Question Number : 44 Question Id : 8995147450 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

No. of Programme Specific Outcomes should be:

1. 2-4
2. 4-6
3. 7-8
4. 10-12

**Options :**

89951429430. 1

89951429431. 2

89951429432. 3

89951429433. 4

**Question Number : 45 Question Id : 8995147451 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**



What is the level of following Learning Outcome in the revised Blooms Taxonomy? Student will be able to select an appropriate software process models according to given user requirements.

1. Apply
2. Analyse
3. Evaluate
4. Create

**Options :**

89951429434. 1  
89951429435. 2  
89951429436. 3  
89951429437. 4

**Question Number : 46 Question Id : 8995147452 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What is the level of following Learning Outcome in the revised Blooms Taxonomy? Student will be able to label parts of a lathe machine

1. Remember
2. Understand
3. Apply
4. Create

**Options :**

89951429438. 1  
89951429439. 2  
89951429440. 3  
89951429441. 4

**Question Number : 47 Question Id : 8995147453 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

What is the level of following Learning Outcome in the revised Blooms Taxonomy? Student will be able to identify reasons for failure of a machine component

1. Apply
2. Analyse
3. Evaluate
4. Create

**Options :**

- 89951429442. 1
- 89951429443. 2
- 89951429444. 3
- 89951429445. 4

**Question Number : 48 Question Id : 8995147454 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What is the level of following Learning Outcome in the revised Blooms Taxonomy? Student will be able to devise a plan to reduce the consumption of power by 15% in a given factory.

1. Apply
2. Analyse
3. Evaluate
4. Create

**Options :**

- 89951429446. 1
- 89951429447. 2
- 89951429448. 3
- 89951429449. 4

**Question Number : 49 Question Id : 8995147455 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What is the level of following Learning Outcome in the revised Blooms Taxonomy?  
Student will be able to design helical, bevel and worm gear drives for different applications.

1. Apply
2. Analyse
3. Evaluate
4. Create

**Options :**

- 89951429450. 1
- 89951429451. 2
- 89951429452. 3
- 89951429453. 4

**Question Number : 50 Question Id : 8995147456 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What is the level of following Learning Outcome in the revised Blooms Taxonomy?  
Student will be able to describe properties of building materials

1. Remember
2. Understand
3. Apply
4. Create

**Options :**

- 89951429454. 1
- 89951429455. 2
- 89951429456. 3
- 89951429457. 4

**Question Number : 51 Question Id : 8995147457 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What is the level of following Learning Outcome in the revised Blooms Taxonomy?  
Student will be able to draw outside views for given sectional views of objects.

1. Remember
2. Understand
3. Apply
4. Create

**Options :**

- 89951429458. 1
- 89951429459. 2
- 89951429460. 3
- 89951429461. 4

**Question Number : 52 Question Id : 8995147458 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What is the level of following Learning Outcome in the revised Blooms Taxonomy?  
Student will be able to interpret load-extension diagram for an elastic material.

1. Remember
2. Understand
3. Apply
4. Create

**Options :**

- 89951429462. 1
- 89951429463. 2
- 89951429464. 3
- 89951429465. 4

**Question Number : 53 Question Id : 8995147459 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

What is the level of following Learning Outcome in the revised Blooms Taxonomy?

Student will be able select a bearing based on load carrying capacity, friction coefficient, etc

1. Apply
2. Analyse
3. Evaluate
4. Create

**Options :**

89951429466. 1

89951429467. 2

89951429468. 3

89951429469. 4

**Question Number : 54 Question Id : 8995147460 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

What is the level of following Learning Outcome in the revised Blooms Taxonomy?

Student will be able recognise unstated assumptions in a given case study situation.

1. Apply
2. Analyse
3. Evaluate
4. Create

**Options :**

89951429470. 1

89951429471. 2

89951429472. 3

89951429473. 4

**Question Number : 55 Question Id : 8995147461 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

What is the level of following Learning Outcome in the revised Blooms Taxonomy?

Student will be able judge the conclusions of an investigation/ research work.

1. Apply
2. Analyse
3. Evaluate
4. Create

**Options :**

89951429474. 1

89951429475. 2

89951429476. 3

89951429477. 4

**Question Number : 56 Question Id : 8995147462 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What is the level of following Learning Outcome in the revised Blooms Taxonomy?

Student will be able calculate sag in overhead transmission lines and string efficiency of overhead line insulators

1. Apply
2. Analyse
3. Evaluate
4. Create

**Options :**

89951429478. 1

89951429479. 2

89951429480. 3

89951429481. 4

**Question Number : 57 Question Id : 8995147463 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Select the domain of following Learning Outcome.

Student will be able to operate a Lathe machine

1. Cognitive
2. Psychomotor
3. Affective
4. The statement is not a learning outcome but topic.

**Options :**

89951429482. 1

89951429483. 2

89951429484. 3

89951429485. 4

**Question Number : 58 Question Id : 8995147464 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Select the domain of following Learning Outcome.

Student will be able to estimate the behavior of alternator using parallel operation for power generation

1. Cognitive
2. Psychomotor
3. Affective
4. The statement is not a learning outcome but topic.

**Options :**

89951429486. 1

89951429487. 2

89951429488. 3

89951429489. 4

**Question Number : 59 Question Id : 8995147465 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Select the domain of following Learning Outcome.

Newton's Laws of Motion

1. Cognitive
2. Psychomotor
3. Affective
4. The statement is not a learning outcome but topic.

**Options :**

89951429490. 1

89951429491. 2

89951429492. 3

89951429493. 4

**Question Number : 60 Question Id : 8995147466 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Select the domain of following Learning Outcome.

Student will be able to show concern for safety

1. Cognitive
2. Psychomotor
3. Affective
4. The statement is not a learning outcome but topic.

**Options :**

89951429494. 1

89951429495. 2

89951429496. 3

89951429497. 4

**Question Number : 61 Question Id : 8995147467 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**



Select the domain of following Learning Outcome.

Student will be able to work in a team

1. Cognitive
2. Psychomotor
3. Affective
4. The statement is not a learning outcome but topic.

**Options :**

89951429498. 1

89951429499. 2

89951429500. 3

89951429501. 4

**Question Number : 62 Question Id : 8995147468 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Select the domain of following Learning Outcome.

Student will be able to carry out survey of a given area

1. Cognitive
2. Psychomotor
3. Affective
4. The statement is not a learning outcome but topic.

**Options :**

89951429502. 1

89951429503. 2

89951429504. 3

89951429505. 4

**Question Number : 63 Question Id : 8995147469 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Select the domain of following Learning Outcome.

Building Materials

1. Cognitive
2. Psychomotor
3. Affective
4. The statement is not a learning outcome but topic.

**Options :**

89951429506. 1

89951429507. 2

89951429508. 3

89951429509. 4

**Question Number : 64 Question Id : 8995147470 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Select the domain of following Learning Outcome.

Student will be able to solve ordinary differential equations

1. Cognitive
2. Psychomotor
3. Affective
4. The statement is not a learning outcome but topic.

**Options :**

89951429510. 1

89951429511. 2

89951429512. 3

89951429513. 4

**Question Number : 65 Question Id : 8995147471 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Number of Course Outcomes for a course according to NBA Self assessment Report should preferably be

1. Around 6
2. 12
3. 8-10
4. 0-1

**Options :**

- 89951429514. 1
- 89951429515. 2
- 89951429516. 3
- 89951429517. 4

**Question Number : 66 Question Id : 8995147472 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Course Articulation Matrix is a matrix between

1. POs/PSOs and Courses
2. PEOs and Courses
3. POs/PSOs and COs
4. PEOs and Cos

**Options :**

- 89951429518. 1
- 89951429519. 2
- 89951429520. 3
- 89951429521. 4

**Question Number : 67 Question Id : 8995147473 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Programme Articulation Matrix is a matrix between

1. POs/PSOs and Courses
2. PEOs and Courses
3. POs/PSOs and COs
4. PEOs and Cos

**Options :**

89951429522. 1

89951429523. 2

89951429524. 3

89951429525. 4

**Question Number : 68 Question Id : 8995147474 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No  
Correct Marks : 1 Wrong Marks : 0**

Which statement is an example of a Course Outcome

1. Teacher will teach analysis of structures
2. Law of Thermodynamics
3. Student will be able to solve ordinary differential equations
4. Student will learn first law of thermodynamics

**Options :**

89951429526. 1

89951429527. 2

89951429528. 3

89951429529. 4

**Question Number : 69 Question Id : 8995147475 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No  
Correct Marks : 1 Wrong Marks : 0**

Map the following Course Outcome with the most appropriate Programme outcome (having strongest correlation).

Student will be able to apply Fourier transforms

1. PO1: Engineering Knowledge
2. PO2: Problem Analysis
3. PO3: Design /Development of Solutions
4. PO5: Modern Tool Usage

**Options :**

89951429530. 1

89951429531. 2

89951429532. 3

89951429533. 4

**Question Number : 70 Question Id : 8995147476 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Map the following Course Outcome with the most appropriate Programme outcome (having strongest correlation).

Student will be able to carry out tests on a collected water sample for use in construction

1. PO1: Engineering Knowledge
2. PO2: Problem Analysis
3. PO3: Design /Development of Solutions
4. PO4: Investigation of complex problems

**Options :**

89951429534. 1

89951429535. 2

89951429536. 3

89951429537. 4

**Question Number : 71 Question Id : 8995147477 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Map the following Course Outcome with the most appropriate Programme outcome (having strongest correlation).

Student will be able to carry out Literature Survey for a given Problem

1. PO1 : Engineering Knowledge
2. PO10: Communication
3. PO9: Individual and Teamwork
4. PO12: Life-long Learning

**Options :**

- 89951429538. 1
- 89951429539. 2
- 89951429540. 3
- 89951429541. 4

**Question Number : 72 Question Id : 8995147478 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Map the following Course Outcome with the most appropriate Programme outcome (having strongest correlation).

Student will be able to assess impact of constructing dam on nearby population

1. PO6: Engineer and Society
2. PO3: Design /Development of Solutions
3. PO10: Communication
4. PO12: Life-long Learning

**Options :**

- 89951429542. 1
- 89951429543. 2

89951429544. 3

89951429545. 4

**Question Number : 73 Question Id : 8995147479 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What is **NOT TRUE** about learning

1. Learning is relatively permanent change in behaviour
2. Learning occurs due to reinforced practice
3. Learning cannot be defined in observable outcomes
4. In outcome based education learning should be student centric

**Options :**

89951429546. 1

89951429547. 2

89951429548. 3

89951429549. 4

**Question Number : 74 Question Id : 8995147480 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Following is **NOT** a characteristic of a good evaluation system

1. Validity
2. Reliability
3. Objectivity
4. Predictability

**Options :**

89951429550. 1

89951429551. 2

89951429552. 3

89951429553. 4

**Question Number : 75 Question Id : 8995147481 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Following is **TRUE** about assessment of Course Outcomes

1. There is only one unique method of calculating attainment of course outcomes
2. It is impossible to calculate attainment of course outcomes.
3. For tier II Institutions, attainment of all the Course Outcomes of End of Term assessment will be same and will be based on total marks obtained by the student.
4. Attainment of course outcomes can be calculated from perceptions of teachers alone.

**Options :**

89951429554. 1

89951429555. 2

89951429556. 3

89951429557. 4

**Question Number : 76 Question Id : 8995147482 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

**Rubric:**

1. Is a complex software for calculating probability of attainment of outcome
2. Has matrix structure and used to assess process or product
3. Is a tool for teaching complex subjects
4. Is a visualization tool for abstract concepts

**Options :**

89951429558. 1

89951429559. 2

89951429560. 3

89951429561. 4

**Question Number : 77 Question Id : 8995147483 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**



Holistic rubric is :

1. One dimensional
2. Two dimensional
3. Three dimensional
4. None of the above

**Options :**

- 89951429562. 1
- 89951429563. 2
- 89951429564. 3
- 89951429565. 4

**Question Number : 78 Question Id : 8995147484 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Complex Engineering Problems have following characteristics

1. That cannot be solved by straightforward application of knowledge, theories and techniques applicable to the engineering discipline as against problems given at the end of chapters in a typical text book that can be solved using simple engineering theories and techniques;
2. That may not have a unique solution. For example, a design problem can be solved in many ways and lead to multiple possible solutions;
3. that require consideration of appropriate constraints / requirements not explicitly given in the problem statement such as cost, power requirement, durability, product life, etc.;
4. All of the above

**Options :**

- 89951429566. 1
- 89951429567. 2
- 89951429568. 3
- 89951429569. 4

**Question Number : 79 Question Id : 8995147485 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Programme Outcomes are assessed by:

1. Direct assessment only.
2. Indirect assessment only.
3. Both direct and indirect assessment
4. Perception only

**Options :**

- 89951429570. 1
- 89951429571. 2
- 89951429572. 3
- 89951429573. 4

**Question Number : 80 Question Id : 8995147486 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Direct assessment of Programme Outcomes is done by

1. Graduate exit survey
2. Employer survey
3. By placement statistics
4. Assessment of attainment of Course outcomes and/or courses

**Options :**

- 89951429574. 1
- 89951429575. 2
- 89951429576. 3
- 89951429577. 4

**Question Number : 81 Question Id : 8995147487 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Following is a tool of Indirect Assessment of Programme Outcomes

1. End semester examination
2. Seminar presentation
3. Graduate Exit survey
4. Laboratory and workshop assessment

**Options :**

89951429578. 1

89951429579. 2

89951429580. 3

89951429581. 4

**Question Number : 82 Question Id : 8995147488 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

If Enrolment Ratio for **Tier I Institute** is less than 60% but more than 50%, marks awarded will be :

1. 0
2. 8
3. 10
4. 12

**Options :**

89951429582. 1

89951429583. 2

89951429584. 3

89951429585. 4

**Question Number : 83 Question Id : 8995147489 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

To get full marks (i.e., 20 out of 20) for Enrolment ratio sub criteria for **Tier I Institute**, Enrolment Ratio should be equal to or greater than:

1. 75%
2. 80%
3. 85%
4. 90%

**Options :**

89951429586. 1  
89951429587. 2  
89951429588. 3  
89951429589. 4

**Question Number : 84 Question Id : 8995147490 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

In the sub-criteria, "Academic Performance in Third Year", for calculation of API, 'Successful Students' are those:

1. Who have attained all Course Outcomes of the Third Year Courses
2. Who have passed all Courses of the Third Year.
3. Who have passed all Courses of the First, Second and Third Year.
4. Who are permitted to proceed to the Final Year.

**Options :**

89951429590. 1  
89951429591. 2  
89951429592. 3  
89951429593. 4

**Question Number : 85 Question Id : 8995147491 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

While calculating the Placement Index  $((x+y+z)/N)$ , **N** refers to:

1. Total number of students admitted in that batch
2. Total number of students who cleared the final examination
3. Total number of students who appeared the final examination
4. Total number of Final Year Students.

**Options :**

89951429594. 1

89951429595. 2

89951429596. 3

89951429597. 4

**Question Number : 86 Question Id : 8995147492 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Following is **not true** about contractual faculty for the purpose of Criteria 5 “Faculty Information and Contributions”

1. Shall have the AICTE prescribed qualifications and experience.
2. Shall be appointed on full time basis and worked for consecutive two semesters during the particular academic year under consideration.
3. Should have gone through an appropriate process of selection and the records of the same shall be made available to the visiting team during NBA visit
4. Should have joined before 31<sup>st</sup> August and continued till 30<sup>th</sup> April of next year without break

**Options :**

89951429598. 1

89951429599. 2

89951429600. 3

89951429601. 4

**Question Number : 87 Question Id : 8995147493 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Maximum % of Part-time faculty (paid on per hour basis) allowed as per AICTE norms is

1. 10
2. 15
3. 25
4. None of the above

**Options :**

89951429602. 1  
89951429603. 2  
89951429604. 3  
89951429605. 4

**Question Number : 88 Question Id : 8995147494 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

For the purpose of Criteria 5 “Faculty Information and Contributions”, the available and required number of PhD. in the department shall be truncated to its \_\_\_\_\_.

1. Nearest lower integer.
2. Nearest higher integer.
3. Nearest higher or lower integer (rounded off)
4. None of the above

**Options :**

89951429606. 1  
89951429607. 2  
89951429608. 3  
89951429609. 4

**Question Number : 89 Question Id : 8995147495 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

To get full marks (i.e., 20 out of 20) for Student Faculty Ratio sub criteria for **Tier I Institute**, Ratio should be equal to or less than:

1. 10
2. 12
3. 15
4. 20

**Options :**

- 89951429610. 1
- 89951429611. 2
- 89951429612. 3
- 89951429613. 4

**Question Number : 90 Question Id : 8995147496 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

In a programme with sanctioned intake of 60 and no lateral entry (Total number of students =180) in a **Tier I** Institute, Required number of Associate Professors (RF2) are:

1. 1
2. 2
3. 3
4. 4

**Options :**

- 89951429614. 1
- 89951429615. 2
- 89951429616. 3
- 89951429617. 4

**Question Number : 91 Question Id : 8995147497 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

In a programme with sanctioned intake of 60 and no lateral entry (Total number of students =180) in a **Tier I** Institute, Required number of Assistant Professors (RF3) are:

1. 4
2. 6
3. 8
4. 9

**Options :**

89951429618. 1  
89951429619. 2  
89951429620. 3  
89951429621. 4

**Question Number : 92 Question Id : 8995147498 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

For sub criteria, Faculty Cadre Proportion, following data is given for a **Tier I Institute:**

$AF1 = 0$ ,  $AF2 = 0$ ,  $AF3 = 18$

$RF1 = 2$ ,  $RF2 = 4$ ,  $RF3 = 12$ , then marks awarded for this sub criteria will be:

1. 0
2. 3
3. 6
4. 9

**Options :**

89951429622. 1  
89951429623. 2  
89951429624. 3  
89951429625. 4

**Question Number : 93 Question Id : 8995147499 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**



Required faculty for the purpose of Criteria 5 “Faculty Information and Contributions” for **Tier II** Institute is calculated with the Student Faculty ratio of:

1. 15
2. 20
3. 25
4. None of the above

**Options :**

89951429626. 1

89951429627. 2

89951429628. 3

89951429629. 4

**Question Number : 94 Question Id : 8995147500 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

For **Tier I institute**, marks awarded for sub criteria Faculty retention is 0, if % of faculty retained during the period of assessment keeping CAYm2 as base year is less than:

1. 40
2. 50
3. 55
4. 60

**Options :**

89951429630. 1

89951429631. 2

89951429632. 3

89951429633. 4

**Question Number : 95 Question Id : 8995147501 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Following is **not true for Tier I institute** for sub criteria, Faculty as participants in Faculty development/training activities/STTPs

1. A Faculty scores maximum five points for participation per year
2. Participation in one day Faculty/ Faculty development program: 1 Point
3. Participation in 2 to 5 days Faculty/ Faculty development program: 3 Points
4. Participation >5 days Faculty/ Faculty development program: 5 points

**Options :**

- 89951429634. 1
- 89951429635. 2
- 89951429636. 3
- 89951429637. 4

**Question Number : 96 Question Id : 8995147502 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

NBA has made it compulsory to have following certification for engineering laboratories **for Tier I institutes**

1. NABL Accreditation
2. ISO certification
3. BIS certification
4. None of the above

**Options :**

- 89951429638. 1
- 89951429639. 2
- 89951429640. 3
- 89951429641. 4

**Question Number : 97 Question Id : 8995147503 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Number of members of NBA Visiting Team (including Chairman and experts) for accreditation of 5 programmes **for Tier I Institute** will be

1. 6
2. 10
3. 11
4. 15

**Options :**

89951429642. 1

89951429643. 2

89951429644. 3

89951429645. 4

**Question Number : 98 Question Id : 8995147504 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

NBA requires following about feedback of teachers/ teaching:

1. Record of reward and corrective action must be maintained
2. It should be computerized
3. Frequency and format has been prescribed by NBA to be followed
4. None of the above

**Options :**

89951429646. 1

89951429647. 2

89951429648. 3

89951429649. 4

**Question Number : 99 Question Id : 8995147505 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

For award of Accreditation for Six Years for **Tier I Institute**, Student Faculty Ratio(SFR) must be equal to or better than

1. 10
2. 15
3. 18
4. 20

**Options :**

89951429650. 1  
89951429651. 2  
89951429652. 3  
89951429653. 4

**Question Number : 100 Question Id : 8995147506 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

For award of Accreditation for Six Years for **Tier I Institute**, at least ----- criteria should be fully compliant (**Y**) and with only Concerns (**C**) in other remaining criteria (No weakness (**W**) or Deficiency (**D**) is allowed)

1. 5
2. 6
3. 7
4. 9

**Options :**

89951429654. 1  
89951429655. 2  
89951429656. 3  
89951429657. 4