

# National Testing Agency

<b>Question Paper Name :</b>	Capstone Project 29th August 2021 Shift 1
<b>Subject Name :</b>	Capstone Project
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## Capstone Project

<b>Group Number :</b>	1
<b>Group Id :</b>	603489230
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	120
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	100
<b>Is this Group for Examiner? :</b>	No

## Capstone Project-1

<b>Section Id :</b>	603489336
<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>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	603489614
<b>Question Shuffling Allowed :</b>	Yes

**Question Number : 1 Question Id : 60348916258 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Project monitoring is mainly required due to

1. Variation in productivity
2. Variation in target
3. Variation in environment
4. None of these

**Options :**

60348961173. 1

60348961174. 2

60348961175. 3

60348961176. 4

**Question Number : 2 Question Id : 60348916259 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Work plans of a project is generally

1. Short term
2. Long term
3. Medium term
4. None of them

**Options :**

60348961177. 1

60348961178. 2

60348961179. 3

60348961180. 4

**Question Number : 3 Question Id : 60348916260 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Project modifications refer to

1. Budget modifications
2. Partnership modifications
3. Project time plan modifications
4. All of them

**Options :**

60348961181. 1

60348961182. 2

60348961183. 3

60348961184. 4

**Question Number : 4 Question Id : 60348916261 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

You have determined that a feed rate for a particular tool must be 7.0 inches per minute (or 7 millimeters per minute in the metric mode). The correct designation in the program would be:

1. F0.7
2. F7.0
3. S7.0
4. F0.007

**Options :**

60348961185. 1

60348961186. 2

60348961187. 3

60348961188. 4

**Question Number : 5 Question Id : 60348916262 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

You are running a proven program (one run before) for the first time in a new setup. You are cautiously allowing the first tool come into its approach position when you determine that the tool is not going where it is supposed to. It is most likely that:

1. The spindle speed is not correct
2. The program zero designation is not correct
3. The dry run switch should be turned on
4. The programmed coordinates are not correct

**Options :**

60348961189. 1

60348961190. 2

60348961191. 3

60348961192. 4

**Question Number : 6 Question Id : 60348916263 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

When coordinates of a program are specified relative to the previous point, it is called:

1. The incremental mode
2. The absolute mode
3. The rapid mode
4. The canned cycle mode

**Options :**

60348961193. 1

60348961194. 2

60348961195. 3

60348961196. 4

**Question Number : 7 Question Id : 60348916264 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

----- switch position allows programs to be modified

1. Edit
2. Auto
3. Zero return
4. MDI (Manual Data Input)

**Options :**

60348961197. 1

60348961198. 2

60348961199. 3

60348961200. 4

**Question Number : 8 Question Id : 60348916265 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

The purpose of writing down the abstract of a project is to indicate

1. Objective
2. Method
3. Start point
4. None of them

**Options :**

60348961201. 1

60348961202. 2

60348961203. 3

60348961204. 4

**Question Number : 9 Question Id : 60348916266 Question Type : MCQ Option Shuffling : No Is**

**Question Mandatory : No**

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

Reliability of a system is related to

1. Maintainability
2. Probability
3. Productivity
4. All of them

**Options :**

60348961205. 1

60348961206. 2

60348961207. 3

60348961208. 4

**Question Number : 10 Question Id : 60348916267 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Main reason for market surveying is to study the

1. Cost of the project
2. Return on investment
3. Study the reliability
4. None of them

**Options :**

60348961209. 1

60348961210. 2

60348961211. 3

60348961212. 4

**Question Number : 11 Question Id : 60348916268 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Scheduling of a project refers to

1. Allotment of duties to each team
2. Sequencing of duties
3. Planning the duties
4. None of them

**Options :**

60348961213. 1

60348961214. 2

60348961215. 3

60348961216. 4

**Question Number : 12 Question Id : 60348916269 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

The main component of successful capstone project is

1. Planning
2. Monitoring and controlling
3. Initiating
4. All of them

**Options :**

60348961217. 1

60348961218. 2

60348961219. 3

60348961220. 4

**Question Number : 13 Question Id : 60348916270 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Opportunity cost in design error is related to

1. Planning
2. Monitoring and controlling
3. Initiating
4. All of them

**Options :**

60348961221. 1

60348961222. 2

60348961223. 3

60348961224. 4

**Question Number : 14 Question Id : 60348916271 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Design error results in

1. An increase in part cost
2. An increase in resource cost
3. An increase in warranty costs
4. All of them

**Options :**

60348961225. 1

60348961226. 2

60348961227. 3

60348961228. 4

**Question Number : 15 Question Id : 60348916272 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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



Design errors have greatest impact on

1. Reliability
2. Quality
3. Manufacturing lead time (MLT)
4. None of them

**Options :**

60348961229. 1

60348961230. 2

60348961231. 3

60348961232. 4

**Question Number : 16 Question Id : 60348916273 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Quality deployment function is a.....function

1. Continuous
2. Discontinuous
3. Intermittent
4. None of them

**Options :**

60348961233. 1

60348961234. 2

60348961235. 3

60348961236. 4

**Question Number : 17 Question Id : 60348916274 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Most common approach in design in

1. Sequential
2. Concurrent
3. Agile
4. None of them

**Options :**

60348961237. 1

60348961238. 2

60348961239. 3

60348961240. 4

**Question Number : 18 Question Id : 60348916275 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Utmost priority should be given in .....for design validation

1. Customer need
2. Manufacturer need
3. Designer need
4. None of them

**Options :**

60348961241. 1

60348961242. 2

60348961243. 3

60348961244. 4

**Question Number : 19 Question Id : 60348916276 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Analytical modelling of a physical system refers to development of a

1. Function
2. Prototype
3. Process
4. None of them

**Options :**

60348961245. 1

60348961246. 2

60348961247. 3

60348961248. 4

**Question Number : 20 Question Id : 60348916277 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Ideation and invention of a design process refers to

1. Idea generation
2. Frustration
3. Incubation
4. All of them

**Options :**

60348961249. 1

60348961250. 2

60348961251. 3

60348961252. 4

**Question Number : 21 Question Id : 60348916278 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Computer Aided Design (CAD) is particularly useful for

1. Simulation
2. Prototyping
3. Detailed drawing
4. None of them

**Options :**

60348961253. 1

60348961254. 2

60348961255. 3

60348961256. 4

**Question Number : 22 Question Id : 60348916279 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

In a design process, analysis comes before

1. Prototyping and testing
2. Goal statement
3. Performance specification
4. Background research

**Options :**

60348961257. 1

60348961258. 2

60348961259. 3

60348961260. 4

**Question Number : 23 Question Id : 60348916280 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

In present days an integral part of design validation is

1. Prototyping
2. Simulation
3. Physical Testing
4. None of them

**Options :**

60348961261. 1

60348961262. 2

60348961263. 3

60348961264. 4

**Question Number : 24 Question Id : 60348916281 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Example of design error in Mechanical Engineering

1. Wrong dimension arrows
2. Wrong weights
3. Error in design calculation
4. None of them

**Options :**

60348961265. 1

60348961266. 2

60348961267. 3

60348961268. 4

**Question Number : 25 Question Id : 60348916282 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Optimisation refers to find out.....

1. Maximum
2. Minimum
3. Either maximum or minimum
4. None of them

**Options :**

60348961269. 1

60348961270. 2

60348961271. 3

60348961272. 4

**Question Number : 26 Question Id : 60348916283 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Integral part of design validation refers to

1. Prototyping
2. Simulation
3. Physical Testing
4. None of them

**Options :**

60348961273. 1

60348961274. 2

60348961275. 3

60348961276. 4

**Question Number : 27 Question Id : 60348916284 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

The main component of effective implementation of capstone project is

1. Monitoring
2. Reliability
3. Feedback
4. None of them

**Options :**

60348961277. 1

60348961278. 2

60348961279. 3

60348961280. 4

**Question Number : 28 Question Id : 60348916285 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Match **List I** with **List II**

<b>List I</b>	<b>List II</b>
A. Life cycle	I. Quadriacclly
B. Design error	II. Three
C. Performance specification	III. Sensitivity
D. Robustness	IV. Objectives

Choose the **correct** answer from the options given below:

1. A - II, B - I, C - IV, D - III
2. A - I, B - II, C - IV, D - III
3. A -III , B -II , C - I, D - IV
4. A - IV, B - II, C - I, D - II

**Options :**

60348961281. 1

60348961282. 2

60348961283. 3

60348961284. 4

Question Number : 29 Question Id : 60348916286 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0

Match **List I** with **List II**

List I	List II
A. Quality	I. Objectives
B. Design validation	II. Three stages
C. Specification format	III. Simulation
D. Product life cycle	IV. Target

Choose the **correct** answer from the options given below:

1. A - I, B - II, C - IV, D - III
2. A - IV, B - III, C - I, D - II
3. A - IV, B - III, C - I, D - II
4. A - IV, B - I, C - II, D - III

**Options :**

60348961285. 1

60348961286. 2

60348961287. 3

60348961288. 4

Question Number : 30 Question Id : 60348916287 Question Type : MCQ Option Shuffling : No

Is Question Mandatory : No

Correct Marks : 1 Wrong Marks : 0



Arrange the following in order of preference

- A. Designer
- B. Manufacturer
- C. Customer
- D. Quality

Choose the **correct** answer from the options given below

- 1. D C B A
- 2. C A D B
- 3. C A B A
- 4. D C A B

**Options :**

- 60348961289. 1
- 60348961290. 2
- 60348961291. 3
- 60348961292. 4

**Question Number : 31 Question Id : 60348916288 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Arrange the followings in order of occurrence

- A. Prototyping and testing
- B. Background research
- C. Goal statement
- D. Performance specification

Choose the **correct** answer from the options given below

- 1. A C B D
- 2. B C D A
- 3. C D B A
- 4. D A C B

**Options :**

60348961293. 1

60348961294. 2

60348961295. 3

60348961296. 4

**Question Number : 32 Question Id : 60348916289 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Earthquake is

1. a natural hazard
2. a man-made phenomenon
3. due to gravitational attraction of the moon
4. none of these

**Options :**

60348961297. 1

60348961298. 2

60348961299. 3

60348961300. 4

**Question Number : 33 Question Id : 60348916290 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Earthquake can be

1. Predicted
2. can not be predicted
3. occurs regularly at intervals
4. none of these

**Options :**

60348961301. 1

60348961302. 2

60348961303. 3

60348961304. 4

**Question Number : 34 Question Id : 60348916291 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Structural engineers cannot make earthquake proof structures as it is

1. extremely costly
2. impossible to design
3. not safe at all
4. none of these

**Options :**

60348961305. 1

60348961306. 2

60348961307. 3

60348961308. 4

**Question Number : 35 Question Id : 60348916292 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Earthquake force is governed by

1. Newton's First law of motion
2. Newton's Second law of motion
3. Darcy's law
4. none of these

**Options :**

60348961309. 1

60348961310. 2

60348961311. 3

60348961312. 4

**Question Number : 36 Question Id : 60348916293 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Earthquake can result in

1. flood
2. landslide
3. fire
4. all of these

**Options :**

60348961313. 1

60348961314. 2

60348961315. 3

60348961316. 4

**Question Number : 37 Question Id : 60348916294 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Load path in buildings is as follows

1. ground to structure back to ground
2. Structure to ground
3. ground to ground
4. none of these

**Options :**

60348961317. 1

60348961318. 2

60348961319. 3

60348961320. 4

**Question Number : 38 Question Id : 60348916295 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Preferred mode of failure of structures should be ductile

1. True
2. False
3. Partially true
4. Partially false

**Options :**

60348961321. 1

60348961322. 2

60348961323. 3

60348961324. 4

**Sub-Section Number :** 2

**Sub-Section Id :** 603489615

**Question Shuffling Allowed :** Yes

**Question Number : 39 Question Id : 60348916296 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Earthquakes result in higher vibrations in the horizontal direction than in the vertical direction

1. True
2. False

**Options :**

60348961325. 1

60348961326. 2

**Sub-Section Number :** 3

**Sub-Section Id :** 603489616

**Question Shuffling Allowed :** Yes

**Question Number : 40 Question Id : 60348916297 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

A civil engineering project should satisfy the following requirements

1. aesthetic
2. functional
3. structural
4. all of these

**Options :**

60348961327. 1

60348961328. 2

60348961329. 3

60348961330. 4

**Question Number : 41 Question Id : 60348916298 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Risk analysis of a capstone project refers to

1. health
2. safety
3. uncertainly in achieving program objectives
4. none of these

**Options :**

60348961331. 1

60348961332. 2

60348961333. 3

60348961334. 4

**Question Number : 42 Question Id : 60348916299 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The success of a project lies in the

1. identification of risks
2. assessment of risks
3. techniques for mitigating the risks
4. all of these

**Options :**

60348961335. 1

60348961336. 2

60348961337. 3

60348961338. 4

**Question Number : 43 Question Id : 60348916300 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Risks of a project can be with respect to

1. technical
2. cost
3. schedule
4. all of these

**Options :**

60348961339. 1

60348961340. 2

60348961341. 3

60348961342. 4

**Question Number : 44 Question Id : 60348916301 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

For risk mitigation one should try to

1. avoid risk
2. reduce risk
3. retain some risks
4. all of these

**Options :**

60348961343. 1

60348961344. 2

60348961345. 3

60348961346. 4

**Question Number : 45 Question Id : 60348916302 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The objectives of a project specification are

1. to know what to develop
2. to know what to test or perform
3. to know what will be the end product or service
4. all of these

**Options :**

60348961347. 1

60348961348. 2

60348961349. 3

60348961350. 4

**Question Number : 46 Question Id : 60348916303 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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



The criteria for good requirement should meet the following points

1. necessary
2. feasible
3. concise
4. all the above

**Options :**

60348961351. 1

60348961352. 2

60348961353. 3

60348961354. 4

**Sub-Section Number :** 4

**Sub-Section Id :** 603489617

**Question Shuffling Allowed :** Yes

**Question Number : 47 Question Id : 60348916304 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Design should not commence without an approved specification

1. True
2. False

**Options :**

60348961355. 1

60348961356. 2

**Question Number : 48 Question Id : 60348916305 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

By carefully designing project risks can be completely eliminated

1. True
2. False
3. -
4. -

**Options :**

60348961357. 1

60348961358. 2

**Question Number : 49 Question Id : 60348916306 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

SWOT analysis is very useful in market research

1. True
2. False

**Options :**

60348961359. 1

60348961360. 2

**Sub-Section Number :** 5

**Sub-Section Id :** 603489618

**Question Shuffling Allowed :** Yes

**Question Number : 50 Question Id : 60348916307 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Match **List I** with **List II**

<b>List I</b>	<b>List II</b>
A. The learners will be able to resolve conflicts that arise in team settings	I. In the team selection phase
B. The learners will be able to select the best alternative engineering design approaches.	II. In the Proposal Preparation and Presentation phase
C. The learners will be able to identify potential team members	III. In the selection of project phase
D. Decide a design approach by identifying objectives, constraints, and criteria etc.	IV. In the Project development phase

Choose the **correct** answer from the options given below:

1. A - II, B - III, C - IV, D - I
2. A - III, B - IV, C - I, D - II
3. A - IV, B - II, C - I, D - III
4. A - I, B - II, C - III, D - IV

**Options :**

60348961361. 1

60348961362. 2

60348961363. 3

60348961364. 4

**Question Number : 51 Question Id : 60348916308 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

A competent engineer should

- A. develop attributes of Graduate engineers
- B. have outstanding academic records
- C. demonstrate the balance between the scientific and non-scientific skills
- D. have acquired domain related knowledge

Choose the **correct** answer from the options given below:

1. A, B and D only
2. A and D only
3. A, C and D only
4. B and C only

**Options :**

60348961365. 1

60348961366. 2

60348961367. 3

60348961368. 4

**Question Number : 52 Question Id : 60348916309 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Arrange the following in order of occurrence

A. Project development

B. Project testing and evaluation

C. Project proposal preparation

D. Proposal presentation

Choose the **correct** answer from the options given below

1. C, B, A, D

2. A, C, B, D

3. D, B, A, C

4. C, D, A, B

**Options :**

60348961369. 1

60348961370. 2

60348961371. 3

60348961372. 4

**Sub-Section Number :** 6

**Sub-Section Id :** 603489619

**Question Shuffling Allowed :** Yes

**Question Number : 53 Question Id : 60348916310 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Capstone Project course provides an opportunity for exploratory learning.

1. True
2. False

**Options :**

60348961373. 1

60348961374. 2

**Sub-Section Number :** 7

**Sub-Section Id :** 603489620

**Question Shuffling Allowed :** Yes

**Question Number : 54 Question Id : 60348916311 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The statement that closely matches the definition of work team is

1. Two or more individuals, interacting and interdependent to achieve particular objectives.
2. Individual efforts result in a performance that is greater than the sum of the individual inputs.
3. Performance is the summation of each member's individual contribution.
4. Individual members interact for sharing information and make decisions primarily to help each member.

**Options :**

60348961375. 1

60348961376. 2

60348961377. 3

60348961378. 4

**Question Number : 55 Question Id : 60348916312 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The important task that has to be performed for project validation before preparing and presenting final report on Capstone project is

1. Developing an effective test plan as per requirement
2. Testing the system, product, process, or service
3. Examining business viability aspects of the project
4. Investigating various societal, environmental and other aspects of the project

**Options :**

60348961379. 1

60348961380. 2

60348961381. 3

60348961382. 4

**Question Number : 56 Question Id : 60348916313 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The capstone course challenges the learners to

1. work beyond their comfort zones
2. develop learner's personal and professional skills.
3. anticipate, plan, and manage change in developing projects.
4. develop all the abilities mentioned in other options.

**Options :**

60348961383. 1

60348961384. 2

60348961385. 3

60348961386. 4

**Sub-Section Number :** 8

**Sub-Section Id :** 603489621

**Question Shuffling Allowed :** Yes

**Question Number : 57 Question Id : 60348916314 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Forming stage may reduce innovation and effective decision making

1. False
2. True

**Options :**

60348961387. 1

60348961388. 2

**Sub-Section Number :** 9

**Sub-Section Id :** 603489622

**Question Shuffling Allowed :** Yes

**Question Number : 58 Question Id : 60348916315 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The basic reason for the statement that "conflict is a vital ingredient to capstone project's success" is

1. As conflict is a form of interaction among parties that differ in interest, perception, and preferences.
2. As conflict is natural and is a team issue, it forces a search for alternatives.
3. As in Capstone project students having different viewpoints on certain issues, work collectively
4. As no conflict results less chance of information sharing and hence less contribution by team members.

**Options :**

60348961389. 1

60348961390. 2

60348961391. 3

60348961392. 4

**Question Number : 59 Question Id : 60348916316 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The statement that best illustrates the characteristics of an effective capstone project team member to grow as engineering professional is

1. Team members should not mislead stakeholders by omission or vagueness.
2. Team Members must have the spirit of professionalism.
3. Team members must be honest in every respect.
4. Each member of the team should take responsibility for his or her work and actions.

**Options :**

60348961393. 1

60348961394. 2

60348961395. 3

60348961396. 4

**Question Number : 60 Question Id : 60348916317 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

The category of teaming issues for the conflicts that arise from failure to understand one another is

1. Workload Imbalance
2. Personality
3. Capability Deficiency
4. Miscommunication

**Options :**

60348961397. 1

60348961398. 2

60348961399. 3

60348961400. 4

**Question Number : 61 Question Id : 60348916318 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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



The step of conflict handling in which a capstone project team need to listen to everyone's opinion for understanding true nature of the conflict is

1. Collaborate on a solution
2. Clarify positions
3. Acknowledge the conflict
4. Agree to a co-operative process

**Options :**

60348961401. 1

60348961402. 2

60348961403. 3

60348961404. 4

**Question Number : 62 Question Id : 60348916319 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

For improved team performance assessment, approach to be adopted should include

1. Individual level assessment
2. Team level assessment
3. Organizational level assessment
4. Multilevel assessment

**Options :**

60348961405. 1

60348961406. 2

60348961407. 3

60348961408. 4

**Question Number : 63 Question Id : 60348916320 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

The activity that enables the team members to know the need for understanding their roles and treating others with dignity is

1. Communicating effectively
2. Contributing ideas, skills for the team
3. Providing technical support
4. Working in collaboration with others

**Options :**

60348961409. 1

60348961410. 2

60348961411. 3

60348961412. 4

**Question Number : 64 Question Id : 60348916321 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

The concept conveyed by the statement "Together Everyone Achieves More" is

1. The importance of teamwork at the workplace
2. The organization is more important than the employees
3. The achievement of goals must be done on an individual basis
4. What the employee has to say is not important

**Options :**

60348961413. 1

60348961414. 2

60348961415. 3

60348961416. 4

**Question Number : 65 Question Id : 60348916322 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

The tools that evaluate Capstone Project Team performance need to measure

1. Knowledge, skills, and attitudes of every individual team members
2. Ideas, opinions, thoughts and beliefs shared among the team members
3. Teamwork competencies developed during team based activities
4. Related feedbacks for further improvements in performance

**Options :**

60348961417. 1

60348961418. 2

60348961419. 3

60348961420. 4

**Question Number : 66 Question Id : 60348916323 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Arrange the following in order of activity by the faculty mentor to enhance capstone team performance

- A. Enhance communication among team members
- B. Identify strategies needed to close learning gaps
- C. Utilize team member's strengths
- D. Reduce performance barriers and conflicts

Choose the **correct** answer from the options given below

1. B, C, D, A
2. C, D, A, B
3. A, C, B, D
4. D, C, A, B

**Options :**

60348961421. 1

60348961422. 2

60348961423. 3

60348961424. 4

**Question Number : 67 Question Id : 60348916324 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The initial needs for success of Capstone Project course requires

- A. Budget and Project Proposal
- B. Professional Communication and teamwork
- C. Feasibility studies and Testing
- D. Teamwork, Feasibility studies

Choose the **correct** answer from the options given below:

- 1. A, B and D only
- 2. B, C and D only
- 3. A and D only
- 4. A, C and D only

**Options :**

60348961425. 1

60348961426. 2

60348961427. 3

60348961428. 4

**Sub-Section Number :** 10

**Sub-Section Id :** 603489623

**Question Shuffling Allowed :** Yes

**Question Number : 68 Question Id : 60348916325 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The learners will have the ability to implement the engineering design process with the team in the final phase of carrying out the capstone project.

- 1. True
- 2. False

**Options :**

60348961429. 1

60348961430. 2

**Question Number : 69 Question Id : 60348916326 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

A team is constructed when two or more individuals interacting primarily to share information and to make decisions to help each other.

1. False

2. True

**Options :**

60348961431. 1

60348961432. 2

**Sub-Section Number :** 11

**Sub-Section Id :** 603489624

**Question Shuffling Allowed :** Yes

**Question Number : 70 Question Id : 60348916327 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

For evaluation of team performance in capstone project course, it is important to

- A. Assess team learning
- B. Use tools for evaluation to foster teamwork competencies
- C. Evaluate performance of each individual team members
- D. Assess team performance

Choose the **correct** answer from the options given below:

- 1. A, B and C only
- 2. B and D only
- 3. A, C and D only
- 4. A, B and D only

**Options :**

60348961433. 1

60348961434. 2

60348961435. 3

60348961436. 4

**Question Number : 71 Question Id : 60348916328 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

The main purpose of conducting brainstorming session by Capstone project team is

1. Creative problem solution
2. Evaluating ideas generated
3. Reviewing ideas collected
4. Successful idea generation

**Options :**

60348961437. 1

60348961438. 2

60348961439. 3

60348961440. 4

**Question Number : 72 Question Id : 60348916329 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

The name of the stage of team development which may reduce innovation and effective decision making is

1. Norming
2. Performing
3. Adjourning
4. Storming

**Options :**

60348961441. 1

60348961442. 2

60348961443. 3

60348961444. 4

**Question Number : 73 Question Id : 60348916330 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

The main reason for involvement of Peer-assessment in evaluation of capstone project team is

1. It is the assessment of students' work by other students of equal status.
2. Most of the task related activities done by the Capstone team are not in classroom environment
3. It is generated by their peers, it provides more relevant feedback to the members of every team
4. Students take responsibility and contribute to the assessment process, peer learning is enhanced.

**Options :**

60348961445. 1

60348961446. 2

60348961447. 3

60348961448. 4

**Question Number : 74 Question Id : 60348916331 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

The fourth major function that the Capstone project team communication helps other than control, motivation and information is

1. To develop positive emotions among the project team members
2. To build a positive foundation for the team
3. To make decision
4. To comply with rules or norms as decided by the team

**Options :**

60348961449. 1

60348961450. 2

60348961451. 3

60348961452. 4

**Question Number : 75 Question Id : 60348916332 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The purpose for preparing an agenda for each meeting of capstone team is

1. It helps the members to exchange ideas, views, opinions, and suggestions.
2. It helps the members to divide their responsibilities
3. It helps the members to inform purpose of the meeting in advance
4. It helps the members to ensure follow-up actions to be taken

**Options :**

60348961453. 1

60348961454. 2

60348961455. 3

60348961456. 4

**Question Number : 76 Question Id : 60348916333 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The best reason for enhancing communication skills of Capstone project team members through presentation is

1. Team prepares the topic and face the audience during presentation
2. Team keeps listeners interest using voice modulation.
3. Team prepares the presentation using simple language.
4. Team convinces the audience through effective content delivery.

**Options :**

60348961457. 1

60348961458. 2

60348961459. 3

60348961460. 4

**Question Number : 77 Question Id : 60348916334 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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



The task / tasks to be included as per main objectives of assessment design is / are

1. Consolidate effective communication skills that are expected
2. Articulate the achievement of range of knowledge, skills, attitudes that are expected to demonstrate
3. Apply, theories that have learned by the students, in practice
4. Demonstrate professional qualities expected to be developed

**Options :**

60348961461. 1

60348961462. 2

60348961463. 3

60348961464. 4

**Question Number : 78 Question Id : 60348916335 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

The mechanism for evidence- generating, collecting, and evaluating in the capstone journey is

1. Assessment strategy must encompass learning experiences along with ensuring assessment of students learning
2. Assessment strategy must provide opportunity for students to diagnose gaps in their own learning
3. Assessment strategy must offer an equal chance of success for all students.
4. Assessment strategy must inform further learning – teaching processes

**Options :**

60348961465. 1

60348961466. 2

60348961467. 3

60348961468. 4

**Question Number : 79 Question Id : 60348916336 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

The phase or phases of capstone project, students are mainly assessed through teacher-assessment using rubrics is or are

1. Phase 1 and Phase 2
2. Only Phase 1
3. Phase 3 and Phase 5
4. Only Phase 4

**Options :**

60348961469. 1

60348961470. 2

60348961471. 3

60348961472. 4

**Question Number : 80 Question Id : 60348916337 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Effective assessment tasks can be designed to establish mapping of capstone project course outcomes with program outcomes PO1 to PO5 under

1. The assessment dimension - Individual and Team Work
2. The assessment dimension - Engineering Design
3. The assessment dimension - Communication
4. The assessment dimension - Professionalism

**Options :**

60348961473. 1

60348961474. 2

60348961475. 3

60348961476. 4

**Question Number : 81 Question Id : 60348916338 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Tasks of a Capstone Project should be identified by highlighting the

1. objectives
2. scope
3. significance
4. all of these

**Options :**

60348961477. 1

60348961478. 2

60348961479. 3

60348961480. 4

**Question Number : 82 Question Id : 60348916339 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Capstone project idea based on the strategy that enables renewed functionality of a technologically obsolete product is called

1. Piggybacking
2. Leapfrog
3. Copycat
4. Breakthrough

**Options :**

60348961481. 1

60348961482. 2

60348961483. 3

60348961484. 4

**Question Number : 83 Question Id : 60348916340 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Capstone project idea based on two or more existing ideas to make a new one is called

1. Breakthrough
2. Leapfrog
3. Combined ideas
4. Copycat

**Options :**

60348961485. 1

60348961486. 2

60348961487. 3

60348961488. 4

**Question Number : 84 Question Id : 60348916341 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

A systematic literature review is used to answer well-focused questions about the Capstone project topic based on the following criteria

1. Time frame within which literature was selected
2. Set exclusion or inclusion principle
3. Access quality of the literature included in the review
4. All of these

**Options :**

60348961489. 1

60348961490. 2

60348961491. 3

60348961492. 4

**Question Number : 85 Question Id : 60348916342 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Capstone project idea based on a creative advance that gives people powerful new ways to use technology that significantly different from the prior art is called

1. Leapfrog
2. Breakthrough
3. Piggyback
4. Combined ideas

**Options :**

60348961493. 1

60348961494. 2

60348961495. 3

60348961496. 4

**Question Number : 86 Question Id : 60348916343 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Secondary literature review sources do not include

1. A report by the original researchers of a study in unfiltered forms
2. Academic journal articles other than empirical research articles or reports
3. Books
4. Conference proceedings

**Options :**

60348961497. 1

60348961498. 2

60348961499. 3

60348961500. 4

**Question Number : 87 Question Id : 60348916344 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

A systematic literature review is

1. Using a search engine by a treasure hunt system in the internet
2. A replicable, scientific, and transparent process
3. Devoid of search criteria, giving equal attention to the principal contributors to the area
4. A non-statistical method, generating literature reviews tailored to your subject

**Options :**

60348961501. 1

60348961502. 2

60348961503. 3

60348961504. 4

**Question Number : 88 Question Id : 60348916345 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Industrial property includes

1. Patent and Industrial designs
2. Trademark
3. Geographical indications
4. All of these

**Options :**

60348961505. 1

60348961506. 2

60348961507. 3

60348961508. 4

**Question Number : 89 Question Id : 60348916346 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

A new way to process sugar so that there is zero-calorie in it

1. Copy rights
2. Trademark
3. Patent
4. industrial designs

**Options :**

60348961509. 1

60348961510. 2

60348961511. 3

60348961512. 4

**Question Number : 90 Question Id : 60348916347 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Software and algorithms are considered to be forms of intellectual property Rights and are protected by

1. Copyright Act, 1957
2. Indian Design Act, 2000
3. The Patents Act, 1970
4. All of these

**Options :**

60348961513. 1

60348961514. 2

60348961515. 3

60348961516. 4

**Sub-Section Number :** 12

**Sub-Section Id :** 603489625

**Question Shuffling Allowed :** Yes

**Question Number : 91 Question Id : 60348916348 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The rights of a patentee are to make, use, exercise, sell or distribute the invention but can't assign the property to others

1. True
2. False

**Options :**

60348961517. 1

60348961518. 2

**Question Number : 92 Question Id : 60348916349 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The Identification of the Capstone project topic should be narrowly focused and carefully defined so that it could be a stepping stone to a job or startup

1. True
2. False

**Options :**

60348961519. 1

60348961520. 2

**Sub-Section Number :** 13

**Sub-Section Id :** 603489626

**Question Shuffling Allowed :** Yes

**Question Number : 93 Question Id : 60348916350 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

The copycat is a project idea that means

1. Refinement or improvement on a first-out-of-gate project by its competitors
2. Preparing a competitor's strawberry shortcake without stealing its recipe
3. Preparing a product, process or services exactly copying from competitor's copyright
4. Both Refinement or improvement on a first-out-of-gate project by its competitors and preparing a competitor's strawberry shortcake without stealing its recipe

**Options :**

60348961521. 1



60348961522. 2

60348961523. 3

60348961524. 4

**Question Number : 94 Question Id : 60348916351 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

The most appropriate statement regarding the aims of the Capstone project selection is

1. The topic should be original research work
2. The topic shall be a simple innovative idea that can be implemented
3. To topic should help to prepare a good resume
4. Both The topic should be original research work and be a simple innovative idea that can be implemented.

**Options :**

60348961525. 1

60348961526. 2

60348961527. 3

60348961528. 4

**Question Number : 95 Question Id : 60348916352 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Match **List I** with **List II**

List I	List II
A. Literary, artistic and scientific works	I. Indian Trademark Act, 1999
B. New and useful process or product or both	II. Indian Patent Act, 1970
C. Essentially derived plant variety	III. Indian Copyright Act, 1957
D. <sup>TM</sup> in superscript is an unregistered trademark	IV. The protection of plant varieties and Farmer's Right Act, 2001

Choose the **correct** answer from the options given below:

1. A - III, B - II, C - IV, D - I
2. A - I, B - II, C - III, D - IV
3. A - III, B - II, C - IV, D - I
4. A - IV, B - III, C - II, D - I

**Options :**

60348961529. 1

60348961530. 2

60348961531. 3

60348961532. 4

**Question Number : 96 Question Id : 60348916353 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

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

Match **List I** with **List II**

List I	List II
A. The invention is new or novel	I. Patentable invention
B. The invention is related to against natural law	II. Non-patentable invention
C. Software and algorithm	III. patentable invention
D. Creation of original Artwork	IV. Copyright protection

Choose the **correct** answer from the options given below:

1. A-II, B - I, C -III , D -IV
2. A - I, B - II, C - IV, D - IV
3. A - I, B - II, C -III, D - IV
4. A - IV, B -III , C -II , D -I

**Options :**

60348961533. 1

60348961534. 2

60348961535. 3

60348961536. 4

**Question Number : 97 Question Id : 60348916354 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Primary literature review sources do not include

- A. A report by the original researchers of studying in unfiltered forms
- B. Letters/correspondence etc. of the original researcher
- C. Description or summary by someone other than original researchers
- D. Books
- E. Conference proceedings

Choose the **correct** answer from the options given below

- 1. A, B
- 2. C, D, E
- 3. A, B, C
- 4. B, E

**Options :**

60348961537. 1

60348961538. 2

60348961539. 3

60348961540. 4

**Question Number : 98 Question Id : 60348916355 Question Type : MCQ Option Shuffling : No  
Is Question Mandatory : No**

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

Internal factors for a Capstone project of SWOT are

- A. Strengths
- B. Opportunities
- C. Weaknesses
- D. Threats

Choose the **correct** answer from the options given below

- 1. A, B
- 2. B, C
- 3. A, C
- 4. C D

**Options :**

60348961541. 1

60348961542. 2

60348961543. 3

60348961544. 4

**Sub-Section Number :** 14

**Sub-Section Id :** 603489627

**Question Shuffling Allowed :** Yes

**Question Number : 99 Question Id : 60348916356 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

Literature review for capstone project selection is needed to find out what is already known about your area of interest

- 1. True
- 2. False

**Options :**

60348961545. 1

60348961546. 2

**Question Number : 100 Question Id : 60348916357 Question Type : MCQ Option Shuffling : No**

**Is Question Mandatory : No**

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

SWOT analysis is used to mitigate weaknesses

1. True
2. False

**Options :**

60348961547. 1

60348961548. 2