```
Answer 1:
```

```
GET product/_search
{
"query": {
 "range": {
   "sold": {
    "Ite": 10
   }
  }
      Answer 2:
GET product/_search
{
 "query": {
  "range": {
   "sold": {
    "gte": 10,
    "Ite": 30
   }
 }
 }
}
    Answer 3:
GET product/_search
"query":{
 "match":{
   "tags":"meat"
 }
}
}
      Answer 4:
GET /product/_search{
"query":{
"match": {
```

```
"name":{
   "query": "Tomato Paste",
   "lenient": "true",
   "operator": "and"
  }
 }
}
}
       Answer 5:
       GET /product/_search
        "query":{
         "match_phrase_prefix": {
          "name":{
            "query":"pasta",
           "max_expansions":1
          }
         }
       }
       Answer 6:
GET /product/_search
{
 "query": {
  "bool": {
   "must": {
    "exists":{
     "field":"tags"
    }
  }
}
```

Answer 7:

```
GET /shakespeare/_search
 "query":{
  "terms_set":{
    "text_entry":{
     "terms":
      ["men", "holy", "fight", "prince", "blessed", "conquest", "war", "knife"],
      "minimum_should_match_script":{
       "source":"params.num_terms/4"
      }
   }
  }
 }
}
       Answer 8:
       GET /shakespeare/_search
       "query":{
         "match_phrase": {
               "text_entry": "some night-tripping fairy"
               }
       }
}
       Answer 9:
GET /shakespeare/_search
{
  "query": {
     "match": {
       "text_entry": {
          "query": "sape of likehood",
          "fuzziness": 2,
          "operator":"and"
       }
    }
```

```
}
```

Answer 10:

```
GET /shakespeare/_search
{
   "query": {
      "multi_match": {
      "query": "Henry IV",
      "fields": ["play_name","speaker"]
      , "operator": "and"
    }
}
```

Answer 11:

```
GET /shakespeare/_search
{
    "query": {
        "match": {
            "text_entry": {
                 "query": "my lady",
                 "cutoff_frequency": 0.001
        }
    }
}
```

Answer 12:

- That is currently active, has in_stock of at least 10 and has either wine or meat or both in tags.
- Filter the documents having price of at least 150.

• May or may not have 300 or more items sold.

```
GET product/_search
{
 "query": {
    "bool": {
     "must": [{
       "term": {
        "is_active": {
          "value": true
            }
          }
        }, {
           "range": {
             "in_stock": {
                "gte": 10
             }
           }
        }, {
           "query_string": {
             "default_field": "tags",
             "query": "(wine) or (meat)"
          }
        }],
        "filter": {
           "range": {
             "price": {
                "gte": 150
          }
        },
        "should": [{
           "range": {
             "sold": {
                "gte": 300
             }
          }
        }]
     }
  }
}
```

Answer 13:

1. Answer

- batch (integer type): example values, 2017, 2018
- students (nested type, i.e. array of inner objects): each inner object can have three properties **id**, **name** and **age**.

```
PUT college2
 "mappings": {
  "_doc": {
    "dynamic": "false",
     "properties": {
        "batch": {
           "type": "integer"
          },
           "students": {
             "type": "nested",
             "properties": {
                "id": {
                   "type": "integer"
                },
                "name": {
                   "type": "text"
                },
                "age": {
                   "type": "integer"
                }
             }
          }
        }
  }
}
```

2. Answer

```
PUT college2/_doc/1 {
```

```
"batch": 2019,
  "students": [
     {
      "id": 526,
      "name": "Sabina Shrestha",
      "age": 21
     },
      "id": 503,
      "name": "Arika Joshi",
      "age": 21
     },
      "id": 516,
      "name": "Nabina Khadka",
      "age": 21
     }
  ]
}
```

3. Answer

}

```
}
}

}

}

}

}
```

Answer 14:

```
POST /_aliases
{
 "actions" : [
   {
    "add" : {
     "indices":["product"],
      "alias": "active_products",
      "filter" : {
       "term" : {
         "is_active": "true"
         }
         }
       }
     }
  ]
}
```